



## **Corporate Average Fuel Economy Standards Model Years 2024–2026**

# **Final Supplemental Environmental Impact Statement**

## **Appendices**

**March 2022**

**Docket No. NHTSA-2021-0054**



U.S. Department of Transportation  
**National Highway Traffic Safety  
Administration**





## **APPENDIX A**

### **U.S. Passenger Car and Light Truck Results Reported Separately**





**Final Supplemental Environmental Impact Statement for  
Model Year 2024–2026 Corporate Average Fuel Economy Standards**

**Table A-1. Fuel Consumption and Decrease in Fuel Consumption by Alternative (billion gasoline gallon equivalent total for calendar years 2020–2050)**

	<b>Alt. 0 (No Action)</b>	<b>Alt. 1</b>	<b>Alt. 2</b>	<b>Alt. 2.5</b>	<b>Alt. 3</b>
<b>Fuel Consumption</b>					
Cars	1,408	1,367	1,309	1,301	1,270
Light trucks	2,151	2,104	2,082	2,070	2,051
All light-duty vehicles	3,559	3,471	3,391	3,371	3,321
<b>Decrease in Fuel Use Compared to the No Action Alternative</b>					
Cars	--	-41	-99	-107	-138
Light trucks	--	-47	-69	-81	-100
All light-duty vehicles	--	-88	-168	-188	-238

**Table A-2. Nationwide Criteria Pollutant Emissions (tons/year) in 2025 from Passenger Cars and Light Trucks, by Vehicle Type and Alternative**

<b>Vehicle Class</b>	<b>Alt. 0 (No Action)</b>	<b>Alt. 1</b>	<b>Alt. 2</b>	<b>Alt. 2.5</b>	<b>Alt. 3</b>
<b>Carbon monoxide (CO)</b>					
Cars tailpipe	4,773,425	4,779,919	4,780,420	4,783,876	4,788,175
Cars upstream	45,495	45,404	45,397	45,352	45,311
Trucks tailpipe	6,494,591	6,498,147	6,499,930	6,501,548	6,503,836
Trucks upstream	66,289	66,105	66,151	66,170	66,118
Total	11,379,800	11,389,575	11,391,899	11,396,946	11,403,440
<b>Nitrogen oxides (NO<sub>x</sub>)</b>					
Cars tailpipe	253,189	253,562	253,641	253,828	254,076
Cars upstream	83,079	82,909	82,888	82,807	82,730
Trucks tailpipe	507,920	508,312	508,483	508,671	508,946
Trucks upstream	121,042	120,705	120,788	120,820	120,720
Total	965,231	965,489	965,800	966,126	966,472
<b>Particulate matter (PM<sub>2.5</sub>)</b>					
Cars tailpipe	7,485	7,494	7,493	7,499	7,505
Cars upstream	6,960	6,946	6,945	6,938	6,931
Trucks tailpipe	10,496	10,500	10,503	10,505	10,508
Trucks upstream	10,138	10,110	10,117	10,120	10,111
Total	35,079	35,051	35,058	35,061	35,055
<b>Sulfur oxides (SO<sub>2</sub>)</b>					
Cars tailpipe	3,240	3,223	3,205	3,202	3,193
Cars upstream	28,044	28,126	28,337	28,310	28,362
Trucks tailpipe	4,930	4,907	4,906	4,903	4,890
Trucks upstream	38,318	38,322	38,405	38,462	38,563
Total	74,532	74,578	74,853	74,877	75,009

**Appendix A U.S. Passenger Car and Light Truck Results Reported Separately**

Vehicle Class	Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
<b>Volatile organic compounds (VOCs)</b>					
Cars tailpipe	369,091	369,733	369,889	370,203	370,627
Cars upstream	160,961	160,153	159,361	159,205	158,786
Trucks tailpipe	554,609	555,042	555,232	555,443	555,753
Trucks upstream	242,953	241,915	241,890	241,794	241,122
Total	1,327,614	1,326,844	1,326,371	1,326,645	1,326,288

**Table A-3. Nationwide Criteria Pollutant Emissions (tons/year) in 2035 from Passenger Cars and Light Trucks, by Vehicle Type and Alternative**

Vehicle Class	Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
<b>Carbon monoxide (CO)</b>					
Cars tailpipe	1,705,564	1,696,261	1,679,435	1,678,001	1,671,244
Cars upstream	40,741	40,000	39,420	39,273	38,748
Trucks tailpipe	2,755,591	2,762,050	2,765,881	2,762,342	2,760,622
Trucks upstream	59,500	58,388	58,765	59,252	59,562
Total	4,561,397	4,556,698	4,543,500	4,538,868	4,530,176
<b>Nitrogen oxides (NO<sub>x</sub>)</b>					
Cars tailpipe	70,743	70,613	70,324	70,342	70,257
Cars upstream	72,955	71,575	70,446	70,169	69,200
Trucks tailpipe	156,041	156,353	156,649	156,674	156,766
Trucks upstream	106,994	104,971	105,576	106,390	106,869
Total	406,733	403,512	402,995	403,575	403,092
<b>Particulate matter (PM<sub>2.5</sub>)</b>					
Cars tailpipe	3,960	3,932	3,884	3,879	3,861
Cars upstream	6,168	6,051	5,956	5,933	5,851
Trucks tailpipe	6,072	6,088	6,094	6,079	6,070
Trucks upstream	9,037	8,866	8,917	8,987	9,028
Total	25,236	24,937	24,852	24,878	24,809
<b>Sulfur oxides (SO<sub>2</sub>)</b>					
Cars tailpipe	2,752	2,627	2,466	2,436	2,358
Cars upstream	26,415	26,821	27,892	28,037	28,198
Trucks tailpipe	4,449	4,337	4,267	4,228	4,159
Trucks upstream	33,856	33,620	34,979	36,140	37,439
Total	67,472	67,406	69,604	70,841	72,155
<b>Volatile organic compounds (VOCs)</b>					
Cars tailpipe	115,718	115,491	114,982	115,019	114,880
Cars upstream	137,199	131,298	123,779	122,363	118,672
Trucks tailpipe	199,604	200,081	200,443	200,383	200,445
Trucks upstream	218,947	213,261	210,259	208,626	205,371
Total	671,468	660,130	649,462	646,391	639,368

**Table A-4. Nationwide Criteria Pollutant Emissions (tons/year) in 2050 from Passenger Cars and Light Trucks, by Vehicle Type and Alternative**

Vehicle Class	Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
<b>Carbon monoxide (CO)</b>					
Cars tailpipe	675,046	664,347	620,747	616,395	594,104
Cars upstream	42,475	41,460	40,852	40,711	40,184
Trucks tailpipe	880,819	872,110	865,556	856,094	853,152
Trucks upstream	54,990	54,478	55,019	55,581	55,943
Total	1,653,330	1,632,395	1,582,175	1,568,781	1,543,383
<b>Nitrogen oxides (NO<sub>x</sub>)</b>					
Cars tailpipe	14,210	14,049	13,216	13,127	12,719
Cars upstream	74,226	72,366	70,983	70,703	69,637
Trucks tailpipe	21,517	21,285	21,147	20,959	20,917
Trucks upstream	97,659	96,369	97,101	97,932	98,443
Total	207,612	204,070	202,447	202,722	201,716
<b>Particulate matter (PM<sub>2.5</sub>)</b>					
Cars tailpipe	1,874	1,843	1,726	1,715	1,656
Cars upstream	6,257	6,100	5,981	5,957	5,867
Trucks tailpipe	2,638	2,612	2,592	2,562	2,552
Trucks upstream	8,238	8,127	8,187	8,256	8,298
Total	19,007	18,682	18,486	18,490	18,372
<b>Sulfur oxides (SO<sub>2</sub>)</b>					
Cars tailpipe	2,159	2,061	1,859	1,834	1,731
Cars upstream	32,881	32,533	33,686	33,746	34,062
Trucks tailpipe	3,589	3,357	3,269	3,218	3,173
Trucks upstream	35,177	36,746	38,251	39,447	40,330
Total	73,806	74,696	77,066	78,245	79,296
<b>Volatile organic compounds (VOCs)</b>					
Cars tailpipe	30,723	30,256	28,417	28,208	27,312
Cars upstream	110,609	105,867	96,482	95,304	90,450
Trucks tailpipe	42,704	42,250	41,973	41,531	41,404
Trucks upstream	179,146	168,322	164,524	162,328	160,351
Total	363,182	346,695	331,396	327,371	319,517

**Table A-5. Nationwide Toxic Air Pollutant Emissions (tons/year) in 2025 from Passenger Cars and Light Trucks, by Vehicle Type and Alternative**

Vehicle Class	Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
<b>Acetaldehyde</b>					
Cars tailpipe	3,046	3,050	3,050	3,052	3,055
Cars upstream	31	31	31	30	30
Trucks tailpipe	4,460	4,462	4,463	4,464	4,466
Trucks upstream	47	47	47	47	47
Total	7,584	7,589	7,591	7,594	7,598
<b>Acrolein</b>					
Cars tailpipe	171	171	171	171	171
Cars upstream	4	4	4	4	4
Trucks tailpipe	226	227	227	227	227
Trucks upstream	6	6	6	6	6
Total	408	408	408	408	409
<b>Benzene</b>					
Cars tailpipe	10,899	10,917	10,921	10,930	10,942
Cars upstream	625	622	619	618	616
Trucks tailpipe	17,286	17,299	17,305	17,311	17,321
Trucks upstream	948	944	944	943	940
Total	29,757	29,782	29,788	29,803	29,820
<b>1,3-Butadiene</b>					
Cars tailpipe	1,361	1,363	1,363	1,364	1,365
Cars upstream	7	7	7	7	7
Trucks tailpipe	2,032	2,033	2,034	2,034	2,035
Trucks upstream	10	10	10	10	10
Total	3,410	3,413	3,414	3,415	3,417
<b>Diesel particulate matter (DPM)</b>					
Cars tailpipe	23	23	23	23	23
Cars upstream	14,450	14,398	14,359	14,345	14,319
Trucks tailpipe	12	12	12	12	12
Trucks upstream	21,468	21,390	21,396	21,394	21,355
Total	35,953	35,823	35,790	35,774	35,710
<b>Formaldehyde</b>					
Cars tailpipe	2,268	2,272	2,272	2,274	2,276
Cars upstream	232	231	230	229	229
Trucks tailpipe	3,651	3,654	3,655	3,656	3,658
Trucks upstream	353	351	351	351	350
Total	6,504	6,507	6,507	6,510	6,512

**Table A-6. Nationwide Toxic Air Pollutant Emissions (tons/year) in 2035 from Passenger Cars and Light Trucks, by Vehicle Type and Alternative**

Vehicle Class	Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
<b>Acetaldehyde</b>					
Cars tailpipe	1,202	1,197	1,187	1,186	1,183
Cars upstream	26	25	24	23	22
Trucks tailpipe	2,041	2,048	2,051	2,049	2,050
Trucks upstream	42	41	41	40	40
Total	3,312	3,311	3,302	3,299	3,295
<b>Acrolein</b>					
Cars tailpipe	68	68	67	67	67
Cars upstream	4	3	3	3	3
Trucks tailpipe	106	106	106	106	106
Trucks upstream	6	6	6	6	5
Total	183	183	182	182	182
<b>Benzene</b>					
Cars tailpipe	3,007	3,006	3,003	3,005	3,006
Cars upstream	533	509	478	472	457
Trucks tailpipe	5,560	5,571	5,582	5,584	5,588
Trucks upstream	858	835	822	814	800
Total	9,958	9,921	9,884	9,876	9,851
<b>1,3-Butadiene</b>					
Cars tailpipe	474	472	467	467	465
Cars upstream	6	5	5	5	5
Trucks tailpipe	775	777	778	778	777
Trucks upstream	9	9	9	9	9
Total	1,264	1,263	1,260	1,258	1,256
<b>Diesel particulate matter (DPM)</b>					
Cars tailpipe	4	4	4	4	4
Cars upstream	12,613	12,200	11,721	11,626	11,360
Trucks tailpipe	10	12	11	11	13
Trucks upstream	19,445	19,002	18,887	18,862	18,730
Total	32,072	31,218	30,624	30,503	30,107
<b>Formaldehyde</b>					
Cars tailpipe	736	733	729	729	727
Cars upstream	197	188	177	175	169
Trucks tailpipe	1,317	1,322	1,323	1,323	1,324
Trucks upstream	319	311	306	303	298
Total	2,569	2,554	2,535	2,529	2,518

**Table A-7. Nationwide Toxic Air Pollutant Emissions (tons/year) in 2050 from Passenger Cars and Light Trucks, by Vehicle Type and Alternative**

Vehicle Class	Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
<b>Acetaldehyde</b>					
Cars tailpipe	350	346	325	322	312
Cars upstream	21	20	18	18	17
Trucks tailpipe	486	481	477	473	472
Trucks upstream	34	32	31	31	30
Total	891	878	851	843	831
<b>Acrolein</b>					
Cars tailpipe	22	21	20	20	19
Cars upstream	3	3	2	2	2
Trucks tailpipe	29	29	29	28	28
Trucks upstream	5	4	4	4	4
Total	58	57	55	55	54
<b>Benzene</b>					
Cars tailpipe	459	454	429	426	414
Cars upstream	419	400	361	356	336
Trucks tailpipe	659	652	648	643	642
Trucks upstream	695	650	633	623	614
Total	2,232	2,155	2,071	2,048	2,006
<b>1,3-Butadiene</b>					
Cars tailpipe	143	142	132	131	127
Cars upstream	5	4	4	4	4
Trucks tailpipe	187	184	183	181	181
Trucks upstream	8	7	7	7	7
Total	342	337	326	323	318
<b>Diesel particulate matter (DPM)</b>					
Cars tailpipe	0	0	0	0	0
Cars upstream	11,409	11,025	10,445	10,364	10,036
Trucks tailpipe	3	5	5	5	5
Trucks upstream	16,697	16,055	15,922	15,877	15,819
Total	28,110	27,084	26,371	26,246	25,861
<b>Formaldehyde</b>					
Cars tailpipe	191	189	177	176	170
Cars upstream	155	148	133	132	124
Trucks tailpipe	262	259	257	255	255
Trucks upstream	257	241	235	231	228
Total	865	837	802	793	776

**Table A-8. Carbon Dioxide Emissions and Emissions Reductions (MMTCO<sub>2</sub>) from All Passenger Cars, 2021–2100 by Alternative, Direct and Indirect Impacts <sup>a</sup>**

<b>Alternative</b>	<b>Total Emissions</b>	<b>Emissions Reductions Compared to No Action</b>	<b>Percent (%) Emissions Reductions Compared to No Action Alternative Emissions</b>
Alt. 0 (No Action)	34,800	-	-
Alt. 1	33,600	1,300	4%
Alt. 2	31,400	3,400	10%
Alt. 2.5	31,100	3,700	11%
Alt. 3	30,000	4,800	14%

Notes:

<sup>a</sup> The numbers in this table have been rounded for presentation purposes. As a result, the reductions do not reflect the exact differences between the values.

MMTCO<sub>2</sub> = million metric tons of carbon dioxide.

**Table A-9. Carbon Dioxide Emissions and Emissions Reductions (MMTCO<sub>2</sub>) from All Light Trucks, 2021–2100 by Alternative, Direct and Indirect Impacts <sup>a</sup>**

<b>Alternative</b>	<b>Total Emissions</b>	<b>Emissions Reductions Compared to No Action</b>	<b>Percent (%) Emissions Reductions Compared to No Action Alternative Emissions</b>
Alt. 0 (No Action)	54,400	-	-
Alt. 1	52,100	2,200	4%
Alt. 2	51,300	3,100	6%
Alt. 2.5	50,900	3,500	6%
Alt. 3	50,400	4,000	7%

Notes:

<sup>a</sup> The numbers in this table have been rounded for presentation purposes. As a result, the reductions do not reflect the exact differences between the values.

MMTCO<sub>2</sub> = million metric tons of carbon dioxide.

**Table A-10. Emissions of Greenhouse Gases (MMTCO<sub>2</sub>e per year) from All Passenger Cars by Alternative, Direct and Indirect Impacts <sup>a</sup>**

Year	Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
<b>Carbon dioxide (CO<sub>2</sub>)</b>					
2020	553	553	553	553	553
2040	478	456	425	419	402
2060	406	389	358	354	338
2080	403	387	356	352	336
2100	375	360	331	327	312
<b>Methane (CH<sub>4</sub>)</b>					
2020	18	18	18	18	18
2040	16	15	14	14	14
2060	14	14	13	13	12
2080	14	14	13	12	12
2100	13	13	12	12	11
<b>Nitrous oxide (N<sub>2</sub>O)</b>					
2020	7	7	7	7	7
2040	5	5	5	4	4
2060	4	4	4	4	3
2080	4	4	4	4	3
2100	4	4	3	3	3
<b>Total (all GHGs)</b>					
2020	578	578	578	578	578
2040	499	476	444	438	420
2060	424	407	375	371	354
2080	421	404	372	368	351
2100	392	376	346	342	327

Notes:

<sup>a</sup> Emissions from 2051–2100 were scaled using the rate of change for the U.S. transportation fuel consumption from the GCAMReference scenario. These assumptions project a slight decline over this period.

GHG = greenhouse gas; MMTCO<sub>2</sub>e = million metric tons carbon dioxide equivalent.



**Table A-11. Emissions of Greenhouse Gases (MMTCO<sub>2</sub>e per year) from All Light Trucks by Alternative, Direct and Indirect Impacts <sup>a</sup>**

Year	Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
<b>Carbon dioxide (CO<sub>2</sub>)</b>					
2020	721	721	721	721	721
2040	734	711	697	691	680
2060	641	606	595	588	582
2080	637	602	590	584	578
2100	592	560	549	543	538
<b>Methane (CH<sub>4</sub>)</b>					
2020	24	24	24	24	24
2040	24	23	23	23	23
2060	22	20	20	20	20
2080	21	20	20	20	20
2100	20	19	19	19	18
<b>Nitrous oxide (N<sub>2</sub>O)</b>					
2020	9	9	9	9	9
2040	8	7	7	7	7
2060	6	6	6	6	6
2080	6	6	6	6	6
2100	6	6	6	6	5
<b>Total (all GHGs)</b>					
2020	754	754	754	754	754
2040	765	741	727	721	709
2060	669	633	621	614	608
2080	665	628	616	610	604
2100	618	584	573	567	562

Notes:

<sup>a</sup> Emissions from 2051–2100 were scaled using the rate of change for the U.S. transportation fuel consumption from the GCAMReference scenario. These assumptions project a slight decline over this period.

GHG = greenhouse gas; MMTCO<sub>2</sub>e = million metric tons carbon dioxide equivalent.

**Table A-12. Carbon Dioxide Concentrations, Global Mean Surface Temperature Increase, Sea-Level Rise, and Ocean Acidification (GCAMReference) from Passenger Cars by Alternative, Direct and Indirect Impacts <sup>a</sup>**

Alternative	CO <sub>2</sub> Concentration (ppm)			Global Mean Surface Temperature Increase (°C) <sup>b, c</sup>			Sea-Level Rise (cm) <sup>b, d</sup>			Ocean Acidification (pH) <sup>e</sup>		
	2040	2060	2100	2040	2060	2100	2040	2060	2100	2040	2060	2100
<b>Totals by Alternative</b>												
Alt. 0 (No Action)	479.04	565.44	789.11	1.287	2.008	3.484	22.87	36.56	76.28	8.4099	8.3476	8.2176
Alt. 1	479.01	565.39	789.00	1.287	2.008	3.484	22.87	36.56	76.27	8.4099	8.3476	8.2176
Alt. 2	478.99	565.30	788.81	1.287	2.008	3.483	22.87	36.56	76.26	8.4099	8.3477	8.2177
Alt. 2.5	478.98	565.29	788.78	1.287	2.007	3.483	22.87	36.56	76.25	8.4099	8.3477	8.2178
Alt. 3	478.97	565.25	788.68	1.287	2.007	3.482	22.87	36.55	76.24	8.4100	8.3477	8.2178
<b>Reductions Under Action Alternatives</b>												
Alt. 1	0.02	0.05	0.11	0.000	0.000	0.000	0.00	0.00	0.01	0.0000	0.0000	-0.0001
Alt. 2	0.05	0.14	0.30	0.000	0.001	0.001	0.00	0.01	0.03	0.0000	-0.0001	-0.0002
Alt. 2.5	0.05	0.15	0.33	0.000	0.001	0.001	0.00	0.01	0.03	0.0000	-0.0001	-0.0000
Alt. 3	0.07	0.19	0.43	0.000	0.001	0.002	0.00	0.01	0.04	-0.0001	-0.0001	-0.0002

Notes:

<sup>a</sup> The numbers in this table have been rounded for presentation purposes. As a result, the reductions might not reflect the exact difference of the values in all cases. This analysis was simulated using the same methodology as reported in Section 5.3; however, it includes only emissions changes for passenger cars.

<sup>b</sup> The values for global mean surface temperature and sea-level rise are relative to the average of the years 1986–2005.

<sup>c</sup> Temperature changes reported as 0.000 are more than zero but less than 0.001.

<sup>d</sup> Sea-level rise changes reported as 0.00 are more than zero but less than 0.01.

<sup>e</sup> Ocean Acidification changes reported as 0.0000 are less than zero but more than -0.0001.

CO<sub>2</sub> = carbon dioxide; C = degrees Celsius; ppm = parts per million; cm = centimeters; GCAM = Global Change Assessment Model.

**Table A-13. Carbon Dioxide Concentrations, Global Mean Surface Temperature Increase, Sea-Level Rise, and Ocean Acidification (SSP3-7.0) from Passenger Cars by Alternative, Direct and Indirect Impacts <sup>a</sup>**

Alternative	CO <sub>2</sub> Concentration (ppm)			Global Mean Surface Temperature Increase (°C) <sup>b, c</sup>			Sea-Level Rise (cm) <sup>b, d</sup>			Ocean Acidification (pH) <sup>e</sup>		
	2040	2060	2100	2040	2060	2100	2040	2060	2100	2040	2060	2100
<b>Totals by Alternative</b>												
Alt. 0 (No Action)	488.08	577.31	800.39	1.324	2.068	3.564	23.20	37.38	78.53	8.4030	8.3397	8.2119
Alt. 1	488.06	577.26	800.30	1.324	2.068	3.563	23.20	37.38	78.53	8.4030	8.3397	8.2119
Alt. 2	488.03	577.17	800.10	1.323	2.068	3.562	23.20	37.37	78.51	8.4030	8.3398	8.2120
Alt. 2.5	488.02	577.16	800.07	1.323	2.068	3.562	23.20	37.37	78.51	8.4030	8.3398	8.2121
Alt. 3	488.01	577.12	799.97	1.323	2.067	3.562	23.20	37.37	78.50	8.4030	8.3398	8.2121

Alternative	CO <sub>2</sub> Concentration (ppm)			Global Mean Surface Temperature Increase (°C) <sup>b, c</sup>			Sea-Level Rise (cm) <sup>b, d</sup>			Ocean Acidification (pH) <sup>e</sup>		
	2040	2060	2100	2040	2060	2100	2040	2060	2100	2040	2060	2100
<b>Reductions Under Action Alternatives</b>												
Alt. 1	0.02	0.05	0.10	0.000	0.000	0.000	0.00	0.00	0.00	0.0000	0.0000	0.0000
Alt. 2	0.05	0.14	0.29	0.000	0.001	0.001	0.00	0.00	0.02	0.0000	-0.0001	-0.0001
Alt. 2.5	0.05	0.15	0.32	0.000	0.001	0.001	0.00	0.00	0.02	0.0000	-0.0001	-0.0002
Alt. 3	0.07	0.19	0.42	0.000	0.001	0.002	0.00	0.01	0.03	-0.0001	-0.0001	-0.0002

Notes:

<sup>a</sup> The numbers in this table have been rounded for presentation purposes. As a result, the reductions might not reflect the exact difference of the values in all cases. This analysis was simulated using the same methodology as reported in Section 5.3; however, it includes only emissions changes for passenger cars.

<sup>b</sup> The values for global mean surface temperature and sea-level rise are relative to the average of the years 1986–2005.

<sup>c</sup> Temperature changes reported as 0.000 are more than zero but less than 0.001.

<sup>d</sup> Sea-level rise changes reported as 0.00 are more than zero but less than 0.01.

<sup>e</sup> Ocean Acidification changes reported as 0.0000 are less than zero but more than -0.0001.

CO<sub>2</sub> = carbon dioxide; C = degrees Celsius; ppm = parts per million; cm = centimeters; SSP = Shared Socioeconomic Pathway.

**Table A-14. Carbon Dioxide Concentrations, Global Mean Surface Temperature Increase, Sea-Level Rise, and Ocean Acidification (GCAMReference) from Light Trucks by Alternative, Direct and Indirect Impacts<sup>a</sup>**

Alternative	CO <sub>2</sub> Concentration (ppm)			Global Mean Surface Temperature Increase (°C) <sup>b, c</sup>			Sea-Level Rise (cm) <sup>b, d</sup>			Ocean Acidification (pH) <sup>e</sup>		
	2040	2060	2100	2040	2060	2100	2040	2060	2100	2040	2060	2100
<b>Totals by Alternative</b>												
Alt. 0 (No Action)	479.04	565.44	789.11	1.287	2.008	3.484	22.87	36.56	76.28	8.4099	8.3476	8.2176
Alt. 1	479.01	565.36	788.91	1.287	2.008	3.483	22.87	36.56	76.27	8.4099	8.3476	8.2177
Alt. 2	479.01	565.33	788.83	1.287	2.008	3.483	22.87	36.56	76.26	8.4099	8.3477	8.2177
Alt. 2.5	479.00	565.31	788.79	1.287	2.008	3.483	22.87	36.56	76.26	8.4099	8.3477	8.2177
Alt. 3	478.99	565.29	788.75	1.287	2.007	3.483	22.87	36.56	76.25	8.4099	8.3477	8.2178
<b>Reductions Under Action Alternatives</b>												
Alt. 1	0.02	0.08	0.20	0.000	0.000	0.001	0.00	0.00	0.02	0.0000	-0.0001	-0.0001
Alt. 2	0.03	0.11	0.27	0.000	0.001	0.001	0.00	0.00	0.02	0.0000	-0.0001	-0.0001
Alt. 2.5	0.04	0.13	0.31	0.000	0.001	0.001	0.00	0.01	0.03	0.0000	-0.0001	-0.0002
Alt. 3	0.05	0.15	0.35	0.000	0.001	0.001	0.00	0.01	0.03	0.0000	-0.0001	-0.0002

Notes:

<sup>a</sup> The numbers in this table have been rounded for presentation purposes. As a result, the reductions might not reflect the exact difference of the values in all cases. This analysis was simulated using the same methodology as reported in Section 5.3; however, it includes only emissions changes for light trucks.

<sup>b</sup> The values for global mean surface temperature and sea-level rise are relative to the average of the years 1986–2005.

<sup>c</sup> Temperature changes reported as 0.000 are more than zero but less than 0.001.

<sup>d</sup> Sea-level rise changes reported as 0.00 are more than zero but less than 0.01.

<sup>e</sup> Ocean Acidification changes reported as 0.0000 are less than zero but more than -0.0001.

CO<sub>2</sub> = carbon dioxide; °C = degrees Celsius; ppm = parts per million; cm = centimeters; GCAM = Global Change Assessment Model.

**Table A-15. Carbon Dioxide Concentrations, Global Mean Surface Temperature Increase, Sea-Level Rise, and Ocean Acidification (SSP3-7.0) from Light Trucks by Alternative, Direct and Indirect Impacts <sup>a</sup>**

Alternative	CO <sub>2</sub> Concentration (ppm)			Global Mean Surface Temperature Increase (°C) <sup>b, c</sup>			Sea-Level Rise (cm) <sup>b, d</sup>			Ocean Acidification (pH) <sup>e</sup>		
	2040	2060	2100	2040	2060	2100	2040	2060	2100	2040	2060	2100
<b>Totals by Alternative</b>												
Alt. 0 (No Action)	488.08	577.31	800.39	1.324	2.068	3.564	23.20	37.38	78.53	8.4030	8.3397	8.2119
Alt. 1	488.06	577.24	800.20	1.324	2.068	3.563	23.20	37.38	78.52	8.4030	8.3397	8.2120
Alt. 2	488.05	577.20	800.11	1.323	2.068	3.562	23.20	37.37	78.50	8.4030	8.3397	8.2120
Alt. 2.5	488.04	577.18	800.06	1.323	2.067	3.562	23.20	37.37	78.49	8.4030	8.3398	8.2121
Alt. 3	488.03	577.15	800.01	1.323	2.067	3.561	23.20	37.36	78.48	8.4030	8.3398	8.2121
<b>Reductions Under Action Alternatives</b>												
Alt. 1	0.02	0.07	0.20	0.000	0.000	0.001	0.00	0.00	0.01	0.0000	0.0000	-0.0001
Alt. 2	0.03	0.11	0.28	0.000	0.001	0.001	0.00	0.00	0.03	0.0000	-0.0001	-0.0001
Alt. 2.5	0.03	0.13	0.33	0.000	0.001	0.002	0.00	0.01	0.04	0.0000	-0.0001	-0.0002
Alt. 3	0.05	0.16	0.39	0.001	0.001	0.002	0.00	0.01	0.05	0.0000	-0.0001	-0.0002

Notes:

<sup>a</sup> The numbers in this table have been rounded for presentation purposes. As a result, the reductions might not reflect the exact difference of the values in all cases. This analysis was simulated using the same methodology as reported in Section 5.3; however, it includes only emissions changes for light trucks.

<sup>b</sup> The values for global mean surface temperature and sea-level rise are relative to the average of the years 1986–2005.

<sup>c</sup> Temperature changes reported as 0.000 are more than zero but less than 0.001.

<sup>d</sup> Sea-level rise changes reported as 0.00 are more than zero but less than 0.01.

<sup>e</sup> Ocean Acidification changes reported as 0.0000 are less than zero but more than -0.0001.

CO<sub>2</sub> = carbon dioxide; °C = degrees Celsius; ppm = parts per million; cm = centimeters; SSP = Shared Socioeconomic Pathway

**Table A-16. Carbon Dioxide Emissions and Emissions Reductions (MMTCO<sub>2</sub>) from All Passenger Cars, 2021–2100 by Alternative, Cumulative Impacts <sup>a</sup>**

Alternative	Total Emissions	Emissions Reductions Compared to No Action	Percent (%) Emissions Reductions Compared to No Action Alternative Emissions
Alt. 0 (No Action)	34,800	-	-
Alt. 1	33,600	1,300	4%
Alt. 2	31,400	3,400	10%
Alt. 2.5	31,100	3,700	11%
Alt. 3	30,000	4,800	14%

Notes:

<sup>a</sup> The numbers in this table have been rounded for presentation purposes. As a result, the reductions do not reflect the exact differences between the values.

MMTCO<sub>2</sub> = million metric tons of carbon dioxide.

**Table A-17. Carbon Dioxide Emissions and Emissions Reductions (MMTCO<sub>2</sub>) from All Light Trucks, 2021–2100 by Alternative, Cumulative Impacts <sup>a</sup>**

Alternative	Total Emissions	Emissions Reductions Compared to No Action	Percent (%) Emissions Reductions Compared to No Action Alternative Emissions
Alt. 0 (No Action)	54,400	-	-
Alt. 1	52,100	2,200	4%
Alt. 2	51,300	3,100	6%
Alt. 2.5	50,900	3,500	6%
Alt. 3	50,400	4,000	7%

Notes:

<sup>a</sup> The numbers in this table have been rounded for presentation purposes. As a result, the reductions do not reflect the exact differences between the values.

MMTCO<sub>2</sub> = million metric tons of carbon dioxide.

**Table A-18. Emissions of Greenhouse Gases (MMTCO<sub>2</sub>e per year) from All Passenger Cars by Alternative, Cumulative Impacts <sup>a</sup>**

Year	Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
<b>Carbon dioxide (CO<sub>2</sub>)</b>					
2020	553	553	553	553	553
2040	478	456	425	419	402
2060	406	389	358	354	338
2080	403	387	356	352	336
2100	375	360	331	327	312
<b>Methane (CH<sub>4</sub>)</b>					
2020	18	18	18	18	18
2040	16	15	14	14	14
2060	14	14	13	13	12
2080	14	14	13	12	12
2100	13	13	12	12	11
<b>Nitrous oxide (N<sub>2</sub>O)</b>					
2020	7	7	7	7	7
2040	5	5	5	4	4
2060	4	4	4	4	3
2080	4	4	4	4	3
2100	4	4	3	3	3
<b>Total (all GHGs)</b>					
2020	578	578	578	578	578
2040	499	476	444	438	420
2060	424	407	375	371	354
2080	421	404	372	368	351
2100	392	376	346	342	327

Notes:

<sup>a</sup> Emissions from 2051–2100 were scaled using the rate of change for the U.S. transportation fuel consumption from the GCAMReference scenario. These assumptions project a slight decline over this period.

GHG = greenhouse gas; MMTCO<sub>2</sub>e = million metric tons carbon dioxide equivalent.

Table A-19. Emissions of Greenhouse Gases (MMTCO<sub>2</sub>e per year) from All Light Trucks by Alternative, Cumulative Impacts <sup>a</sup>

Year	Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
<b>Carbon dioxide (CO<sub>2</sub>)</b>					
2020	721	721	721	721	721
2040	734	711	697	691	680
2060	641	606	595	588	582
2080	637	602	590	584	578
2100	592	560	549	543	538
<b>Methane (CH<sub>4</sub>)</b>					
2020	24	24	24	24	24
2040	24	23	23	23	23
2060	22	20	20	20	20
2080	21	20	20	20	20
2100	20	19	19	19	18
<b>Nitrous oxide (N<sub>2</sub>O)</b>					
2020	9	9	9	9	9
2040	8	7	7	7	7
2060	6	6	6	6	6
2080	6	6	6	6	6
2100	6	6	6	6	5
<b>Total (all GHGs)</b>					
2020	754	754	754	754	754
2040	765	741	727	721	709
2060	669	633	621	614	608
2080	665	628	616	610	604
2100	618	584	573	567	562

Notes:

<sup>a</sup> Emissions from 2051–2100 were scaled using the rate of change for the U.S. transportation fuel consumption from the GCAMReference scenario. These assumptions project a slight decline over this period.

GHG = greenhouse gas; MMTCO<sub>2</sub>e = million metric tons carbon dioxide equivalent.

**Table A-20. Carbon Dioxide Concentrations, Global Mean Surface Temperature Increase, Sea-Level Rise, and Ocean Acidification (GCAM6.0) from Passenger Cars by Alternative, Cumulative Impacts <sup>a</sup>**

Alternative	CO <sub>2</sub> Concentration (ppm)			Global Mean Surface Temperature Increase (°C) <sup>b, c</sup>			Sea-Level Rise (cm) <sup>b, d</sup>			Ocean Acidification (pH) <sup>e</sup>		
	2040	2060	2100	2040	2060	2100	2040	2060	2100	2040	2060	2100
<b>Totals by Alternative</b>												
Alt. 0 (No Action)	472.56	546.00	687.29	1.216	1.810	2.838	22.16	35.15	70.22	8.4099	8.3476	8.2176
Alt. 1	472.54	545.95	687.18	1.216	1.810	2.837	22.16	35.15	70.21	8.4099	8.3476	8.2176
Alt. 2	472.51	545.87	687.00	1.215	1.810	2.837	22.16	35.14	70.19	8.4099	8.3477	8.2177
Alt. 2.5	472.50	545.86	686.98	1.215	1.810	2.836	22.16	35.14	70.19	8.4099	8.3477	8.2178
Alt. 3	472.49	545.81	686.86	1.215	1.809	2.835	22.16	35.14	70.17	8.4100	8.3477	8.2178
<b>Reductions Under Action Alternatives</b>												
Alt. 1	0.02	0.05	0.11	0.000	0.000	0.000	0.00	0.00	0.01	0.0000	0.0000	-0.0001
Alt. 2	0.05	0.14	0.29	0.000	0.001	0.001	0.00	0.01	0.03	0.0000	-0.0001	-0.0002
Alt. 2.5	0.05	0.15	0.31	0.000	0.001	0.001	0.00	0.01	0.03	0.0000	-0.0001	-0.0002
Alt. 3	0.07	0.19	0.43	0.000	0.001	0.003	0.00	0.01	0.06	0.0001	-0.0001	-0.0002

Notes:

<sup>a</sup> The numbers in this table have been rounded for presentation purposes. As a result, the reductions might not reflect the exact difference of the values in all cases. This analysis was simulated using the same methodology as reported in Section 5.3; however, it includes only emissions changes for passenger cars.

<sup>b</sup> The values for global mean surface temperature and sea-level rise are relative to the average of the years 1986–2005.

<sup>c</sup> Temperature changes reported as 0.000 are more than zero but less than 0.001.

<sup>d</sup> Sea-level rise changes reported as 0.00 are more than zero but less than 0.01.

<sup>e</sup> Ocean acidification changes reported as 0.0000 are less than zero but more than -0.0001.

CO<sub>2</sub> = carbon dioxide; °C = degrees Celsius; ppm = parts per million; cm = centimeters; GCAM = Global Change Assessment Model.

**Table A-21. Carbon Dioxide Concentrations, Global Mean Surface Temperature Increase, Sea-Level Rise, and Ocean Acidification (SSP2-4.5) from Passenger Cars by Alternative, Cumulative Impacts <sup>a</sup>**

Alternative	CO <sub>2</sub> Concentration (ppm)			Global Mean Surface Temperature Increase (°C) <sup>b, c</sup>			Sea-Level Rise (cm) <sup>b, d</sup>			Ocean Acidification (pH) <sup>e</sup>		
	2040	2060	2100	2040	2060	2100	2040	2060	2100	2040	2060	2100
<b>Totals by Alternative</b>												
Alt. 0 (No Action)	470.25	522.24	568.07	1.158	1.605	2.212	22.36	33.76	60.73	8.4168	8.3776	8.3458
Alt. 1	470.23	522.19	567.98	1.158	1.605	2.212	22.36	33.77	60.73	8.4168	8.3777	8.3459
Alt. 2	470.20	522.10	567.80	1.158	1.604	2.210	22.36	33.76	60.71	8.4168	8.3777	8.3460
Alt. 2.5	470.19	522.09	567.78	1.158	1.604	2.210	22.36	33.76	60.71	8.4168	8.3777	8.3460
Alt. 3	470.18	522.05	567.69	1.158	1.604	2.210	22.36	33.76	60.69	8.4168	8.3778	8.3461

**Appendix A U.S. Passenger Car and Light Truck Results Reported Separately**

Alternative	CO <sub>2</sub> Concentration (ppm)			Global Mean Surface Temperature Increase (°C) <sup>b, c</sup>			Sea-Level Rise (cm) <sup>b, d</sup>			Ocean Acidification (pH) <sup>e</sup>		
	2040	2060	2100	2040	2060	2100	2040	2060	2100	2040	2060	2100
<b>Reductions Under Action Alternatives</b>												
Alt. 1	0.02	0.05	0.08	0.000	0.000	0.000	0.00	0.00	0.00	0.0000	0.0000	-0.0001
Alt. 2	0.05	0.13	0.26	0.000	0.001	0.001	0.00	0.00	0.02	0.0000	-0.0001	-0.0002
Alt. 2.5	0.05	0.14	0.28	0.000	0.001	0.001	0.00	0.00	0.03	0.0000	-0.0001	-0.0002
Alt. 3	0.07	0.19	0.38	0.000	0.001	0.002	0.00	0.01	0.04	-0.0001	-0.0001	-0.0003

Notes:

<sup>a</sup> The numbers in this table have been rounded for presentation purposes. As a result, the reductions might not reflect the exact difference of the values in all cases. This analysis was simulated using the same methodology as reported in Section 5.3; however, it includes only emissions changes for passenger cars.

<sup>b</sup> The values for global mean surface temperature and sea-level rise are relative to the average of the years 1986–2005.

<sup>c</sup> Temperature changes reported as 0.000 are more than zero but less than 0.001.

<sup>d</sup> Sea-level rise changes reported as 0.00 are more than zero but less than 0.01.

<sup>e</sup> Ocean acidification changes reported as 0.0000 are less than zero but more than -0.0001.

CO<sub>2</sub> = carbon dioxide; °C = degrees Celsius; ppm = parts per million; cm = centimeters; SSP = Shared Socioeconomic Pathway

**Table A-22. Carbon Dioxide Concentrations, Global Mean Surface Temperature Increase, Sea-Level Rise, and Ocean Acidification (GCAM6.0) from Light Trucks by Alternative, Cumulative Impacts <sup>a</sup>**

Alternative	CO <sub>2</sub> Concentration (ppm)			Global Mean Surface Temperature Increase (°C) <sup>b, c</sup>			Sea-Level Rise (cm) <sup>b, d</sup>			Ocean Acidification (pH) <sup>e</sup>		
	2040	2060	2100	2040	2060	2100	2040	2060	2100	2040	2060	2100
<b>Totals by Alternative</b>												
Alt. 0 (No Action)	472.56	546.00	687.29	1.216	1.810	2.838	22.16	35.15	70.22	8.4150	8.3609	8.2723
Alt. 1	472.54	545.93	687.10	1.216	1.810	2.837	22.16	35.15	70.20	8.4150	8.3609	8.2724
Alt. 2	472.53	545.89	687.03	1.215	1.810	2.837	22.16	35.15	70.20	8.4150	8.3609	8.2724
Alt. 2.5	472.52	545.88	686.99	1.215	1.810	2.837	22.16	35.15	70.19	8.4150	8.3609	8.2724
Alt. 3	472.51	545.85	686.91	1.215	1.809	2.835	22.16	35.14	70.17	8.4150	8.3610	8.2725
<b>Reductions Under Action Alternatives</b>												
Alt. 1	0.02	0.08	0.19	0.000	0.000	0.001	0.00	0.00	0.02	0.0000	-0.0001	-0.0001
Alt. 2	0.03	0.11	0.26	0.000	0.001	0.001	0.00	0.00	0.02	0.0000	-0.0001	-0.0001
Alt. 2.5	0.04	0.13	0.30	0.000	0.001	0.001	0.00	0.01	0.03	0.0000	-0.0001	-0.0002
Alt. 3	0.05	0.15	0.37	0.000	0.001	0.003	0.00	0.01	0.06	0.0000	-0.0001	-0.0002

Notes:

<sup>a</sup> The numbers in this table have been rounded for presentation purposes. As a result, the reductions might not reflect the exact difference of the values in all cases. This analysis was simulated using the same methodology as reported in Section 5.3; however, it includes only emissions changes for light trucks.

<sup>b</sup> The values for global mean surface temperature and sea-level rise are relative to the average of the years 1986–2005.

<sup>c</sup> Temperature changes reported as 0.000 are more than zero but less than 0.001.

<sup>d</sup> Sea-level rise changes reported as 0.00 are more than zero but less than 0.01.

<sup>e</sup> Ocean acidification changes reported as 0.0000 are less than zero but more than -0.0001.

CO<sub>2</sub> = carbon dioxide; °C = degrees Celsius; ppm = parts per million; cm = centimeters; GCAM = Global Change Assessment Model.



**Table A-23. Carbon Dioxide Concentrations, Global Mean Surface Temperature Increase, Sea-Level Rise, and Ocean Acidification (SSP2-4.5) from Light Trucks by Alternative, Cumulative Impacts <sup>a</sup>**

Alternative	CO <sub>2</sub> Concentration (ppm)			Global Mean Surface Temperature Increase (°C) <sup>b, c</sup>			Sea-Level Rise (cm) <sup>b, d</sup>			Ocean Acidification (pH) <sup>e</sup>		
	2040	2060	2100	2040	2060	2100	2040	2060	2100	2040	2060	2100
<b>Totals by Alternative</b>												
Alt. 0 (No Action)	470.25	522.24	568.07	1.158	1.605	2.212	22.36	33.76	60.73	8.4168	8.3776	8.3458
Alt. 1	470.23	522.16	567.89	1.158	1.604	2.211	22.36	33.77	60.72	8.4168	8.3777	8.3459
Alt. 2	470.22	522.13	567.81	1.158	1.604	2.210	22.36	33.76	60.70	8.4168	8.3777	8.3460
Alt. 2.5	470.21	522.11	567.77	1.158	1.603	2.210	22.36	33.76	60.69	8.4168	8.3777	8.3460
Alt. 3	470.20	522.08	567.72	1.157	1.603	2.209	22.36	33.75	60.68	8.4168	8.3778	8.3461
<b>Reductions Under Alternatives</b>												
Alt. 1	0.02	0.07	0.18	0.000	0.000	0.001	0.00	0.00	0.01	0.0000	-0.0001	-0.0001
Alt. 2	0.03	0.11	0.25	0.000	0.001	0.002	0.00	0.00	0.03	0.0000	-0.0001	-0.0002
Alt. 2.5	0.03	0.13	0.30	0.000	0.001	0.002	0.00	0.01	0.04	0.0000	-0.0001	-0.0002
Alt. 3	0.05	0.16	0.34	0.001	0.002	0.003	0.00	0.01	0.06	0.0000	-0.0001	-0.0002

Notes:

<sup>a</sup> The numbers in this table have been rounded for presentation purposes. As a result, the reductions might not reflect the exact difference of the values in all cases. This analysis was simulated using the same methodology as reported in Section 5.3; however, it includes only emissions changes for light trucks.

<sup>b</sup> The values for global mean surface temperature and sea-level rise are relative to the average of the years 1986–2005.

<sup>c</sup> Temperature changes reported as 0.000 are more than zero but less than 0.001.

<sup>d</sup> Sea-level rise changes reported as 0.00 are more than zero but less than 0.01.

<sup>e</sup> Ocean acidification changes reported as 0.0000 are less than zero but more than -0.0001.

CO<sub>2</sub> = carbon dioxide; °C = degrees Celsius; ppm = parts per million; cm = centimeters; SSP = Shared Socioeconomic Pathway



## **APPENDIX B**

### **Air Quality Nonattainment Area Results**



**Final Supplemental Environmental Impact Statement for  
Model Year 2024–2026 Corporate Average Fuel Economy Standards**

**Table B-1. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Particulate Matter (PM<sub>2.5</sub>), 2025**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.02	0.03
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-0.24	-0.19	-0.18	-0.24
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.03	0.04
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.01	-0.01	-0.02
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.01	-0.01	-0.02
Allegheny County, PA	PM <sub>2.5</sub> (2012 Annual)	Nonattainment, Moderate	100	0	-0.08	-0.06	-0.05	-0.07
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.01	-0.02	-0.02
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.06	-0.05	-0.05	-0.07
Allentown, PA	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.01	0.02	0.02
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.02	0.02
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.33	-0.29	-0.32	-0.43
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.01	-0.01	-0.02
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.02	-0.02	-0.02	-0.02
Anchorage; Eagle River, AK	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.01
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.01	0.01	0.01
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.33	-0.25	-0.23	-0.31

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.01
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.02	0.03	0.04
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.04	-0.04	-0.05
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.02	-0.02	-0.02	-0.03
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.21	0.25	0.37	0.51
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.15	0.18	0.27	0.38
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.09	-0.07	-0.08	-0.10
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.03	-0.03	-0.03	-0.04
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	-0.03	0.01	0.05	0.07
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.03	0.01	0.05	0.07
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-2.39	-2.07	-2.29	-3.11
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.01
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.02	-0.01	-0.02
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-0.32	-0.28	-0.31	-0.42
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.33	-0.28	-0.32	-0.43
Birmingham, AL	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.07	-0.05	-0.03	-0.04
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.01	0.02	0.03
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.13	-0.11	-0.11	-0.15
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.40	-0.35	-0.39	-0.53
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.12	-0.10	-0.11	-0.16
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.01	0.01
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.01	-0.01	-0.02
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.01	-0.01	-0.02
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.01
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.22	-0.19	-0.20	-0.28
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.01	0.01	0.01	0.02
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.01	-0.01	0.00	-0.01
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	0.05	0.06	0.09	0.13
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.08	0.11	0.17	0.23
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-3.02	-2.55	-2.72	-3.69
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-3.02	-2.55	-2.72	-3.68
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.01	0.01
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.01
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.01	0.01	0.01
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.05	0.07	0.11	0.15
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.04	0.06	0.11	0.15
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.06	0.08	0.12	0.17
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	0.00	0.02	0.03
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.16	-0.11	-0.08	-0.11
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.03	-0.01	0.01	0.01
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.19	-0.14	-0.11	-0.15

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.17	-0.12	-0.09	-0.12
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.03	-0.02	-0.01	-0.01
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.03	0.04	0.08	0.11
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	0.04	0.05	0.09	0.12
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.08	-0.07	-0.08	-0.10
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.45	-2.13	-2.36	-3.21
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.12	-0.11	-0.12	-0.16
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.03	0.03	0.05	0.07
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	0.00	0.02	0.03
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.04	0.13	0.28	0.38
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.04	0.12	0.27	0.37
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-1.75	-1.51	-1.68	-2.28
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.40	-0.30	-0.28	-0.37
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.27	-0.20	-0.18	-0.24
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.40	-0.30	-0.28	-0.37
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	-0.13	-0.09	-0.08	-0.11
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.55	-0.43	-0.41	-0.55
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.12	-0.10	-0.11	-0.14
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.55	-0.43	-0.40	-0.55
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.18	-0.16	-0.17	-0.24
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.18	-0.16	-0.17	-0.24
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.01	-0.01	-0.02
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	-2.37	-2.06	-2.29	-3.11
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.12	-0.10	-0.11	-0.15
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.16	-0.13	-0.14	-0.19
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.18	-0.16	-0.17	-0.24
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.01	0.02	0.02
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.01	-0.01	-0.01	-0.01
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.01	-0.01	-0.01	-0.01
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.01	0.01
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.01
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.02	-0.01	-0.01	-0.01
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-0.04	-0.03	-0.04	-0.05
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.05	0.06	0.10	0.13
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.05	0.06	0.10	0.13
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	-0.69	-0.60	-0.66	-0.89

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.13	-0.12	-0.13	-0.18
Hancock County (Part) The city of Weirton, including Butler and Clay: Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.16	-0.14	-0.15	-0.21
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.03	0.04	0.06	0.08
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.04	0.05	0.07	0.10
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.02	-0.02	-0.02	-0.03
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.02	-0.02	-0.02	-0.03
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-8.09	-6.95	-7.61	-10.33
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-8.09	-6.95	-7.61	-10.33
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.04	-0.03	-0.03	-0.04
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.04	-0.03	-0.03	-0.04
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.01	0.01	0.01	0.02
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.01	0.01	0.01	0.02
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.04	-0.03	-0.03	-0.04
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.12	-0.11	-0.12	-0.16
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.07	-0.06	-0.07	-0.09
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.02	0.02	0.03	0.05
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.05	-0.05	-0.05	-0.07
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.01

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.01	0.02
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.19	-0.17	-0.18	-0.25
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.01
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.13	-0.11	-0.13	-0.17
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.12	-0.10	-0.11	-0.16
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.04	-0.04	-0.06
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-1.31	-1.14	-1.26	-1.71
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-1.31	-1.14	-1.26	-1.71
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.01
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.01
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.01
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.03	0.04	0.05	0.07
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.01	0.02	0.03	0.05
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.01
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.01	0.01	0.01	0.02
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-2.44	-2.11	-2.34	-3.18
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.44	-2.12	-2.35	-3.19

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.01	0.01	0.02	0.03
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.02	0.03
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.02	0.02
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	0.06	0.08	0.12	0.17
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.06	0.08	0.12	0.17
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.33	-0.28	-0.32	-0.43
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.01	0.01
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.88	-0.76	-0.85	-1.15
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.02	-0.01	-0.02	-0.02
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.01	0.01
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.08	-0.07	-0.08	-0.11
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.69	-0.42	-0.20	-0.26
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-1.28	-1.10	-1.20	-1.64
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-1.28	-1.10	-1.20	-1.64
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.69	-0.42	-0.20	-0.25

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	-0.69	-0.42	-0.20	-0.25
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-0.69	-0.42	-0.20	-0.26
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-0.69	-0.42	-0.20	-0.26
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-0.69	-0.42	-0.20	-0.26
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.05	0.06	0.09	0.12
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.01
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.48	-0.41	-0.45	-0.62
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.33	-0.29	-0.32	-0.43
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.15	0.18	0.26	0.36
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.02	0.02	0.03	0.04
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.01
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.01	0.01
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.12	-0.09	-0.08	-0.11
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.10	-0.08	-0.06	-0.08
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.04	0.05	0.07	0.10
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.33	-0.25	-0.23	-0.31

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.04	-0.03	-0.04	-0.05
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.03	-0.04	-0.05
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	0.00	0.00	0.00
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	-0.01
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.03	-0.03	-0.03	-0.04
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.03	-0.03	-0.03	-0.04
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.01	0.01
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	-0.01
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	0.03	0.04	0.06	0.08
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.03	-0.02	-0.02	-0.03
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.01	0.01
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.23	0.34	0.59	0.81
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.01	0.08	0.20	0.28
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.22	0.33	0.57	0.79

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	0.22	0.33	0.57	0.78
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.04	0.05	0.08	0.11
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.09	-0.06	-0.04	-0.05
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	0.00	0.00	-0.01
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.05	-0.04	-0.05	-0.06
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.05	-0.04	-0.05	-0.06
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Peoria County: Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.33	-1.14	-1.25	-1.70
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	-1.62	-1.36	-1.43	-1.95
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-1.56	-1.29	-1.34	-1.81
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-1.56	-1.29	-1.34	-1.81
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	0.15	0.17	0.25	0.35

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.15	0.18	0.26	0.36
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.16	0.18	0.27	0.37
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.01
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.01	0.01	0.02	0.03
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.04	-0.04	-0.06
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.01	0.00	0.00
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.27	-0.21	-0.21	-0.28
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.27	-0.21	-0.21	-0.28
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.04	0.05	0.08	0.10
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.01
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	0.00	0.01	0.01
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.06	-0.04	-0.04	-0.05
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.06	-0.03	0.00	0.00
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.31	-0.27	-0.30	-0.41
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.01	0.01	0.02
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.02	0.03
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.04	-0.03	-0.02	-0.03
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-0.04	-0.03	-0.02	-0.03
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.04	-0.03	-0.02	-0.03
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.70	-0.42	-0.21	-0.26
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.30	-0.26	-0.29	-0.40
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.02	-0.02	-0.03
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.10	-0.07	-0.06	-0.08
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.92	-1.65	-1.82	-2.47
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-1.90	-1.63	-1.77	-2.41
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-1.90	-1.63	-1.77	-2.41
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-1.91	-1.63	-1.78	-2.41
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.01	0.02	0.02
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	-0.13	-0.11	-0.12	-0.17
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.08	-0.05	-0.03	-0.05
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.10	-0.08	-0.07	-0.10
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.10	-0.08	-0.07	-0.10
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.05	0.07	0.10	0.14
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-1.32	-1.14	-1.26	-1.71
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.08	0.11	0.18	0.24
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.08	0.11	0.17	0.24
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	0.08	0.10	0.17	0.24

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-1.80	-1.48	-1.53	-2.07
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.80	-1.48	-1.53	-2.07
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-1.80	-1.48	-1.52	-2.06
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.81	-1.49	-1.55	-2.10
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-3.19	-2.73	-2.97	-4.03
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-3.19	-2.73	-2.97	-4.03
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-3.20	-2.74	-2.98	-4.05
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-3.19	-2.73	-2.97	-4.03
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-3.19	-2.73	-2.97	-4.03
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.12	-0.11	-0.12	-0.16
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.12	-0.11	-0.12	-0.16
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.01	0.01
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.11	0.13	0.19	0.27
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.02	0.03
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.06	-0.04	-0.04	-0.05
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	0.01	0.01	0.02	0.03
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.02	0.03
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.57	-0.50	-0.55	-0.75
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.03	-0.02	-0.03	-0.03
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	-0.33	-0.28	-0.30	-0.40
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.27	-0.20	-0.19	-0.25
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.26	-0.20	-0.18	-0.24
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.15	-0.13	-0.14	-0.20
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.15	-0.13	-0.14	-0.19
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.01	0.01	0.02
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.02	0.02	0.03	0.04
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.01
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.01	0.01
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.08	-0.07	-0.07	-0.10
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.12	-0.11	-0.12	-0.16
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	0.03	0.04	0.05	0.07
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.01	-0.01	-0.01

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.17	-0.15	-0.17	-0.22
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.25	-0.21	-0.24	-0.32
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.01
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.17	-0.15	-0.17	-0.23
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.05	-0.04	-0.04	-0.06
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.08	-0.07	-0.07	-0.10
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.07	-0.05	-0.05	-0.07
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.02	0.03
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-1.25	-1.08	-1.18	-1.61
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-1.25	-1.08	-1.18	-1.61
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.01
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.17	-0.15	-0.16	-0.22
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.17	-0.15	-0.17	-0.23
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.17	-0.15	-0.17	-0.23
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.02	0.03	0.04
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	0.13	0.17	0.27	0.38

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.13	0.17	0.27	0.38
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.01	0.01	0.02	0.03
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.01
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.12	-0.10	-0.12	-0.16
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.01
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.02	0.03
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.01	0.01	0.02
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.01	0.01
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	0.00	-0.01
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.01	0.01
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-2. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Particulate Matter (PM<sub>2.5</sub>), 2035**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.07	-0.09	-0.12
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.14	-2.65	-2.42	-2.85
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.13	-0.21	-0.23	-0.30
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.12	-0.15	-0.14	-0.16
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.13	-0.15	-0.14	-0.16
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.81	-1.04	-0.96	-1.15
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.12	-0.14	-0.12	-0.14
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.43	-0.51	-0.44	-0.51
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.15	-0.24	-0.25	-0.31
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.21	-0.31	-0.32	-0.39
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-2.25	-2.59	-2.23	-2.55
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.12	-0.15	-0.13	-0.15
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.18	-0.22	-0.20	-0.24
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.07	-0.06	-0.07
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.44	-0.63	-0.62	-0.76
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.04	-0.06	-0.07	-0.09
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-3.20	-4.03	-3.71	-4.41

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.06	-0.08	-0.09	-0.11
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.02
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.12	-0.21	-0.24	-0.31
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.19	-0.28	-0.29	-0.35
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.29	-0.34	-0.29	-0.33
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.15	-0.17	-0.15	-0.17
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.02	-0.02	-0.02
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.48	-1.26	-1.56	-2.10
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.43	-1.03	-1.24	-1.66
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.75	-0.92	-0.82	-0.96
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.22	-0.25	-0.22	-0.25
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	-1.01	-1.47	-1.47	-1.82
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-1.01	-1.47	-1.47	-1.82
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-16.55	-19.14	-16.54	-18.96
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.05	-0.06	-0.06	-0.06
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.21	-0.27	-0.25	-0.29
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-2.23	-2.57	-2.22	-2.54
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-2.23	-2.56	-2.20	-2.52
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.89	-1.17	-1.11	-1.34
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.07	-0.09	-0.12
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.15	-1.41	-1.27	-1.50
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-2.75	-3.17	-2.73	-3.12
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.81	-0.93	-0.80	-0.92
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.03	-0.02	-0.03
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.04	-0.07	-0.08	-0.10
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.12	-0.14	-0.13	-0.15
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.12	-0.14	-0.13	-0.15
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.06	-0.08	-0.07	-0.08
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-1.61	-1.90	-1.66	-1.92
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.03	-0.04	-0.05
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.17	-0.22	-0.21	-0.26
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	-0.18	-0.40	-0.47	-0.62
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.36	-0.76	-0.89	-1.18
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-22.71	-26.92	-23.72	-27.48
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-22.72	-26.95	-23.76	-27.53
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.04	-0.07	-0.08	-0.10
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.01	-0.02	-0.03
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.05	-0.06	-0.08
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.36	-0.68	-0.75	-0.98
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.41	-0.74	-0.82	-1.06
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.36	-0.69	-0.78	-1.02
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.36	-0.52	-0.52	-0.65
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.90	-2.49	-2.35	-2.82
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.59	-0.82	-0.81	-0.99
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-2.15	-2.78	-2.61	-3.12



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-1.90	-2.47	-2.33	-2.79
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	-0.01	-0.01
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.36	-0.48	-0.45	-0.55
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.42	-0.71	-0.76	-0.97
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	-0.32	-0.57	-0.63	-0.82
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.57	-0.66	-0.57	-0.66
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-16.69	-19.22	-16.55	-18.93
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	0.00	-0.01
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.85	-0.98	-0.84	-0.96
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.04	-0.13	-0.17	-0.24
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.36	-0.52	-0.52	-0.65
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-2.25	-3.54	-3.69	-4.64
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.24	-3.52	-3.66	-4.61
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-12.01	-13.86	-11.96	-13.69
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-3.90	-4.93	-4.55	-5.40
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-2.74	-3.49	-3.24	-3.85
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-3.90	-4.93	-4.55	-5.40
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	-1.35	-1.73	-1.61	-1.92
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-5.14	-6.43	-5.89	-6.97
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.85	-1.01	-0.88	-1.02
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-5.14	-6.44	-5.89	-6.97
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.24	-1.42	-1.23	-1.40
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-1.24	-1.42	-1.23	-1.40
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	-0.01	-0.01	-0.01	-0.01
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	-0.01	-0.01	-0.01	-0.01
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.13	-0.16	-0.14	-0.17
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	-16.16	-18.59	-16.01	-18.31
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.80	-0.93	-0.80	-0.92
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-1.26	-1.51	-1.34	-1.56
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.24	-1.43	-1.23	-1.41
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.03	-0.05	-0.07
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.06	-0.08	-0.07	-0.08
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.07	-0.08	-0.07	-0.08
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.04	-0.07	-0.07	-0.09
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.05	-0.06	-0.05	-0.06
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.03	-0.03	-0.03
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.29	-0.39	-0.37	-0.45
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-0.27	-0.32	-0.27	-0.31
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.13	-0.33	-0.40	-0.54
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.13	-0.33	-0.40	-0.54
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	-4.85	-5.63	-4.88	-5.60
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.92	-1.06	-0.91	-1.04

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hancock County (Part) The city of Weirton, including Butler and Clay: Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.09	-1.25	-1.08	-1.24
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.13	-0.27	-0.31	-0.41
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.07	-0.20	-0.26	-0.36
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.14	-0.17	-0.14	-0.17
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.15	-0.18	-0.15	-0.17
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-57.21	-66.64	-57.93	-66.59
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-57.12	-66.51	-57.81	-66.45
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.36	-0.45	-0.41	-0.48
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.36	-0.45	-0.41	-0.48
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.04	-0.07	-0.08	-0.10
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.04	-0.07	-0.08	-0.10
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.36	-0.45	-0.41	-0.48
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.84	-0.97	-0.84	-0.96
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.51	-0.60	-0.52	-0.60
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.02	-0.09	-0.11	-0.16
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.37	-0.43	-0.37	-0.42
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.09	-0.11	-0.10	-0.12
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.03	-0.03	-0.05
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-1.36	-1.58	-1.37	-1.58
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.02
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.92	-1.06	-0.92	-1.05
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.81	-0.93	-0.80	-0.92
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.37	-0.44	-0.39	-0.45
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-8.94	-10.30	-8.88	-10.15
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-8.94	-10.30	-8.88	-10.15
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.02
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.02
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.02	-0.02
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.03	-0.13	-0.18	-0.24
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.26	-0.42	-0.44	-0.55
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.08	-0.10	-0.09	-0.10
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.02	-0.05	-0.06	-0.09
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-16.71	-19.28	-16.63	-19.03
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.02
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-16.70	-19.25	-16.59	-18.98
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.03	-0.03	-0.03

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.03	-0.03	-0.03
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.10	-0.16	-0.18	-0.23
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.10	-0.16	-0.18	-0.23
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.03	-0.05	-0.07
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.36	-0.69	-0.78	-1.02
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.36	-0.69	-0.78	-1.02
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-2.23	-2.56	-2.21	-2.52
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.02	-0.04	-0.04	-0.05
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-6.03	-6.96	-6.00	-6.87
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.12	-0.14	-0.12	-0.14
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.02	-0.03
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.60	-0.70	-0.61	-0.70
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-9.85	-13.25	-12.70	-15.38
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-9.00	-10.47	-9.09	-10.44
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-9.00	-10.47	-9.09	-10.44
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	-9.83	-13.23	-12.68	-15.36
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	-9.83	-13.22	-12.68	-15.36
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-9.85	-13.25	-12.70	-15.38
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-9.85	-13.25	-12.70	-15.38
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-9.85	-13.25	-12.70	-15.38

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.06	-0.22	-0.29	-0.40
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.04	-0.04	-0.05
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-3.35	-3.89	-3.38	-3.88
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.26	-2.61	-2.25	-2.57
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.02	-0.02	-0.03
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.04	-0.04	-0.05
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.19	-0.68	-0.89	-1.23
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.08	-0.10	-0.14
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.02	-0.02	-0.02	-0.02
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.02	-0.02	-0.02
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.08	-0.09	-0.08	-0.09
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.02	-0.03
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.09	-1.37	-1.25	-1.48
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-1.10	-1.42	-1.32	-1.58
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.14	-0.31	-0.37	-0.49
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-3.23	-4.09	-3.77	-4.47
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.30	-0.35	-0.31	-0.36
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.30	-0.35	-0.31	-0.36
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.12	-0.16	-0.16	-0.19
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.05	-0.05	-0.06
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.04	-0.04	-0.04

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.03	-0.04	-0.03	-0.04
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.23	-0.26	-0.23	-0.26
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.23	-0.26	-0.23	-0.26
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.06	-0.06	-0.08
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.03	-0.04	-0.03	-0.04
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.03	-0.03	-0.04
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.04	-0.05	-0.05	-0.07
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.04	-0.05	-0.05	-0.07
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.13	-0.18	-0.25
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.17	-0.20	-0.17	-0.20
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.09	-0.14	-0.14	-0.18
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-2.40	-4.25	-4.66	-6.00
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-2.09	-3.20	-3.29	-4.12
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-2.43	-4.26	-4.66	-5.98
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	-2.43	-4.26	-4.65	-5.97
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	-0.01	-0.01
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	-0.01	-0.01
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.17	-0.36	-0.42	-0.56
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.04	-1.37	-1.29	-1.56
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.03	-0.05	-0.04	-0.05
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.05	-0.04	-0.05
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.06	-0.05	-0.06
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.05	-0.07	-0.07	-0.08
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.32	-0.37	-0.32	-0.37
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.32	-0.37	-0.32	-0.37
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.02	-0.03	-0.03	-0.04
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.01
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.03	-0.02	-0.03
Peoria County: Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.03	-0.05	-0.05	-0.06
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.04	-0.04	-0.05
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-9.35	-10.88	-9.45	-10.85
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	-12.37	-14.75	-13.04	-15.14
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-12.49	-15.07	-13.45	-15.69
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-12.49	-15.07	-13.45	-15.69
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.18	-0.65	-0.86	-1.19
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.19	-0.68	-0.90	-1.24
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.19	-0.70	-0.92	-1.27
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.08	-0.09	-0.08	-0.09
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.01	-0.04	-0.06	-0.08
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.32	-0.37	-0.32	-0.37
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	-0.13	-0.18	-0.17	-0.21



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-2.43	-3.02	-2.75	-3.24
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-2.35	-2.91	-2.64	-3.11
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.01	-0.02	-0.01	-0.02
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.12	-0.29	-0.35	-0.47
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.02
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	-0.02	-0.02	-0.03
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.54	-0.68	-0.63	-0.74
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.02	-1.40	-1.36	-1.66
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.13	-2.45	-2.11	-2.41
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.08	-0.13	-0.14	-0.18
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.04	-0.06	-0.08
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	-0.01	-0.01
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.43	-0.55	-0.51	-0.61
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-0.43	-0.55	-0.51	-0.61
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.43	-0.56	-0.53	-0.63
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-9.85	-13.24	-12.69	-15.36
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.08	-2.39	-2.06	-2.36
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.15	-0.17	-0.15	-0.17
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.13	-1.46	-1.37	-1.64
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-13.48	-15.67	-13.59	-15.61

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-13.65	-15.97	-13.93	-16.04
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-13.65	-15.97	-13.93	-16.04
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-13.65	-15.96	-13.92	-16.03
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.04	-0.05	-0.07
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	-0.96	-1.13	-0.98	-1.13
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-1.04	-1.38	-1.31	-1.58
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.99	-1.25	-1.15	-1.36
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.99	-1.25	-1.15	-1.36
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.23	-0.49	-0.57	-0.75
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-9.18	-10.64	-9.21	-10.57
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.55	-1.04	-1.17	-1.52
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.58	-1.08	-1.20	-1.56
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	-0.58	-1.07	-1.20	-1.56
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-14.58	-17.64	-15.77	-18.42
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-14.58	-17.64	-15.77	-18.42
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-14.58	-17.65	-15.79	-18.44
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-14.44	-17.41	-15.53	-18.11
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-22.87	-26.76	-23.33	-26.88
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-22.87	-26.76	-23.33	-26.88
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-22.94	-26.84	-23.40	-26.96
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-22.85	-26.73	-23.31	-26.85
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-22.85	-26.73	-23.31	-26.85
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.85	-0.97	-0.84	-0.96
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.85	-0.97	-0.84	-0.96

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.04	-0.04	-0.04
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	-0.01	-0.01
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.07	-0.12	-0.12	-0.15
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.18	-0.55	-0.71	-0.97
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.09	-0.17	-0.18	-0.23
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.03	-0.04	-0.04	-0.05
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.03	-0.04	-0.04	-0.05
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.04	-0.04	-0.05
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	-0.01	-0.01
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	-0.01	-0.01
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.54	-0.68	-0.63	-0.74
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.01	-0.02
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.01	-0.05	-0.07	-0.10
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.05	-0.07	-0.10
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.05	-0.05	-0.07
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-3.90	-4.49	-3.87	-4.43
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.20	-0.24	-0.21	-0.24
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	-2.45	-2.90	-2.55	-2.95
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.58	-3.25	-3.00	-3.55
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-2.59	-3.28	-3.02	-3.59
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-1.04	-1.20	-1.04	-1.19
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-1.04	-1.21	-1.05	-1.20
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.08	-0.13	-0.14	-0.17

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.01
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.06	-0.09	-0.12
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.09	-0.11	-0.10	-0.12
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.02	-0.02	-0.03
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.53	-0.61	-0.52	-0.60
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.04	-0.04	-0.05
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.83	-0.95	-0.82	-0.94
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.12	-0.17	-0.24
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.10	-0.12	-0.11	-0.12
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.02	-0.02	-0.02
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.16	-1.34	-1.15	-1.32
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.68	-1.94	-1.67	-1.91
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.06	-0.07	-0.06	-0.07
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.18	-1.35	-1.17	-1.33
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.33	-0.39	-0.34	-0.39
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.52	-0.60	-0.52	-0.60
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.63	-0.78	-0.71	-0.84

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.05	-0.07	-0.09
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-8.78	-10.20	-8.85	-10.17
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-8.78	-10.20	-8.85	-10.17
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.09	-0.10	-0.09	-0.10
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.11	-0.14	-0.13	-0.16
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.03	-0.03	-0.04
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.15	-1.32	-1.14	-1.30
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.17	-1.35	-1.16	-1.33
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.18	-1.36	-1.17	-1.34
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.14	-0.24	-0.26	-0.33
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	-0.76	-1.48	-1.69	-2.20
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.76	-1.48	-1.69	-2.20
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.01	-0.04	-0.06	-0.08
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.84	-0.97	-0.84	-0.97
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.02
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.13	-0.21	-0.22	-0.28
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.06	-0.06	-0.08
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.02	-0.02	-0.03
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.12	-0.15	-0.14	-0.17

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.03	-0.06	-0.07	-0.08
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.05	-0.05	-0.06

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-3. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Particulate Matter (PM<sub>2.5</sub>), 2050**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.07	-0.22	-0.26	-0.34
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.22	-3.32	-3.19	-3.88
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.20	-0.46	-0.51	-0.65
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.13	-0.18	-0.17	-0.20
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.13	-0.18	-0.17	-0.20
Allegheny County, PA	PM <sub>2.5</sub> (2012 Annual)	Nonattainment, Moderate	100	0	-0.88	-1.39	-1.37	-1.68
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.12	-0.15	-0.13	-0.15
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.42	-0.54	-0.48	-0.57
Allentown, PA	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Moderate	100	0	-0.21	-0.45	-0.50	-0.63
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.28	-0.56	-0.61	-0.76
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-2.11	-2.57	-2.21	-2.59
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.12	-0.16	-0.15	-0.18
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.19	-0.27	-0.25	-0.31
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.07	-0.06	-0.07
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.55	-1.04	-1.09	-1.36
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.03	-0.03	-0.04
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.06	-0.14	-0.15	-0.19
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-3.40	-5.25	-5.13	-6.26

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.08	-0.15	-0.17	-0.21
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.03	-0.04	-0.05
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.20	-0.49	-0.56	-0.71
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.25	-0.50	-0.53	-0.67
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.27	-0.34	-0.30	-0.35
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.14	-0.17	-0.15	-0.17
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.02	-0.02	-0.03
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-1.27	-3.76	-4.45	-5.72
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.02	-2.91	-3.42	-4.39
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.03	-0.03
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.76	-1.08	-1.02	-1.22
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.21	-0.26	-0.22	-0.26
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	-1.30	-2.54	-2.72	-3.40
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-1.30	-2.56	-2.73	-3.42
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-15.57	-19.26	-16.76	-19.71
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.05	-0.07	-0.06	-0.07
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.02	-0.02
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.22	-0.35	-0.34	-0.42
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-2.09	-2.57	-2.23	-2.62
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-2.08	-2.53	-2.18	-2.56
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-1.01	-1.70	-1.72	-2.13
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	-0.07	-0.22	-0.26	-0.34
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.18	-1.70	-1.62	-1.96
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-2.57	-3.13	-2.70	-3.16
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.76	-0.92	-0.80	-0.93
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.03	-0.03	-0.03
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.06	-0.15	-0.17	-0.21
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.12	-0.16	-0.15	-0.18
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.12	-0.16	-0.15	-0.18
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.06	-0.09	-0.08	-0.10
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-1.55	-2.02	-1.81	-2.15
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.03	-0.10	-0.12	-0.16
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.19	-0.33	-0.34	-0.42
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	-0.39	-1.06	-1.24	-1.58
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.74	-2.00	-2.32	-2.96
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-22.13	-29.45	-26.73	-31.89
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-22.16	-29.53	-26.83	-32.02
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.06	-0.15	-0.17	-0.21
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.05	-0.05	-0.07
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.13	-0.15	-0.19
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.64	-1.58	-1.80	-2.29
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.70	-1.68	-1.91	-2.42
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.66	-1.67	-1.91	-2.44
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.46	-0.91	-0.97	-1.22
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.13	-3.53	-3.55	-4.37
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.72	-1.33	-1.39	-1.73
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-2.37	-3.86	-3.86	-4.74

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-2.11	-3.47	-3.48	-4.29
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.02	-0.02
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.41	-0.71	-0.72	-0.89
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.65	-1.50	-1.68	-2.13
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	-0.54	-1.31	-1.48	-1.89
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.54	-0.68	-0.60	-0.70
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-15.60	-19.04	-16.42	-19.25
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.79	-0.97	-0.83	-0.97
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.14	-0.44	-0.53	-0.69
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.46	-0.91	-0.97	-1.22
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-3.20	-6.87	-7.55	-9.52
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-3.18	-6.81	-7.47	-9.42
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-11.26	-13.85	-12.01	-14.10
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-4.16	-6.46	-6.32	-7.73
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-2.95	-4.66	-4.59	-5.62
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-4.16	-6.46	-6.32	-7.73
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	-1.47	-2.34	-2.32	-2.85
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-5.40	-8.20	-7.95	-9.69
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.83	-1.08	-0.97	-1.16
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-5.41	-8.21	-7.96	-9.70
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.16	-1.41	-1.22	-1.43
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-1.16	-1.41	-1.22	-1.42
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	-0.01	-0.02	-0.02	-0.02
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	-0.01	-0.01	-0.01	-0.01

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.02
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	-0.01	-0.01
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.13	-0.19	-0.19	-0.22
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	-15.09	-18.39	-15.85	-18.58
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.75	-0.93	-0.81	-0.95
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-1.25	-1.71	-1.58	-1.89
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.16	-1.42	-1.23	-1.45
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-0.04	-0.13	-0.15	-0.20
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.06	-0.08	-0.07	-0.08
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.06	-0.09	-0.08	-0.10
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	-0.01
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.06	-0.14	-0.15	-0.19
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.05	-0.06	-0.06	-0.07
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.05	-0.05	-0.06
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.34	-0.58	-0.60	-0.74
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.02	-0.02	-0.03
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-0.26	-0.31	-0.27	-0.32
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.33	-0.97	-1.14	-1.47
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.33	-0.97	-1.15	-1.47
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	-4.59	-5.73	-5.02	-5.92
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.86	-1.05	-0.91	-1.06

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hancock County (Part) The city of Weirton, including Butler and Clay: Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.02	-1.25	-1.07	-1.26
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.26	-0.69	-0.80	-1.02
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.21	-0.65	-0.78	-1.01
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	-0.01
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.13	-0.17	-0.15	-0.18
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.14	-0.17	-0.15	-0.18
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-54.38	-68.76	-60.62	-71.62
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-54.27	-68.56	-60.41	-71.36
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.02	-0.03
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.37	-0.56	-0.54	-0.65
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.37	-0.56	-0.53	-0.65
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.06	-0.16	-0.19	-0.24
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.06	-0.16	-0.19	-0.24
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.37	-0.55	-0.53	-0.65
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.79	-0.98	-0.85	-1.00
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.49	-0.63	-0.55	-0.66
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.09	-0.29	-0.35	-0.46
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.35	-0.42	-0.37	-0.43
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.09	-0.13	-0.12	-0.15
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.09	-0.11	-0.14
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-1.29	-1.62	-1.42	-1.67
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.04	-0.04	-0.06

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.86	-1.07	-0.93	-1.09
Jefferson County; (part), OH	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-0.76	-0.92	-0.80	-0.93
Johnstown, PA	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Moderate	100	0	-0.36	-0.49	-0.44	-0.53
Josephine County; Grants Pass, OR	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
Juneau; Mendenhall Valley area, AK	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	-0.01	-0.01
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-8.36	-10.22	-8.83	-10.35
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-8.36	-10.22	-8.83	-10.35
King County; Kent, WA	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.02
King County; Seattle, WA	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Klamath County; Klamath Falls, OR	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.04	-0.04	-0.06
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.04	-0.04	-0.06
Klamath Falls, OR	PM <sub>2.5</sub> (2006 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.04	-0.05	-0.06
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.14	-0.47	-0.56	-0.73
Knoxville-Sevierville-La Follette, TN	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Moderate	100	0	-0.38	-0.82	-0.91	-1.14
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.08	-0.12	-0.11	-0.14
Lake County (part); Lakeview, OR	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.05	-0.15	-0.18	-0.23
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-15.66	-19.22	-16.64	-19.53
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.03	-0.04	-0.05
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-15.63	-19.13	-16.53	-19.39
Lake County; Polson, MT	PM <sub>10</sub> (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Ronan, MT	PM <sub>10</sub> (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.02
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.04	-0.03	-0.04
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.04	-0.04	-0.05
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.15	-0.35	-0.39	-0.50

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.15	-0.35	-0.39	-0.50
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.13	-0.15	-0.20
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.66	-1.67	-1.91	-2.44
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.66	-1.67	-1.91	-2.44
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.03	-0.04	-0.05
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-2.08	-2.53	-2.18	-2.56
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.04	-0.09	-0.10	-0.13
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-5.66	-6.94	-6.01	-7.06
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.12	-0.15	-0.13	-0.15
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.05	-0.06	-0.08
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.57	-0.73	-0.64	-0.76
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.03	-0.03	-0.04
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-11.42	-19.91	-20.42	-25.29
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-8.54	-10.76	-9.46	-11.17
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-8.54	-10.76	-9.46	-11.17
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	-11.40	-19.89	-20.40	-25.27
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	-11.40	-19.88	-20.40	-25.27
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-11.42	-19.91	-20.42	-25.30
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-11.42	-19.90	-20.42	-25.29
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-11.42	-19.91	-20.42	-25.29
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.23	-0.76	-0.91	-1.17
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.08	-0.09	-0.11
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-3.17	-3.98	-3.49	-4.12
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.12	-2.60	-2.25	-2.64

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.06	-0.07	-0.09
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.06	-0.06	-0.08
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.71	-2.31	-2.78	-3.58
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.08	-0.27	-0.32	-0.41
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.02	-0.03	-0.03	-0.03
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.03	-0.03	-0.03
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.08	-0.10	-0.09	-0.10
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.05	-0.06	-0.08
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.15	-1.76	-1.71	-2.08
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-1.20	-1.94	-1.92	-2.36
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.30	-0.84	-0.98	-1.25
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-3.44	-5.34	-5.22	-6.38
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.29	-0.38	-0.34	-0.40
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.29	-0.38	-0.34	-0.40
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.14	-0.26	-0.27	-0.34
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.07	-0.08	-0.09
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.05	-0.04	-0.05
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.03	-0.04	-0.03	-0.04
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.21	-0.26	-0.23	-0.26
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.21	-0.26	-0.23	-0.26
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.02

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.02
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.02	-0.03
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.05	-0.11	-0.13	-0.16
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.03	-0.04	-0.03	-0.04
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.07	-0.07	-0.09
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.05	-0.09	-0.10	-0.13
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.05	-0.09	-0.10	-0.13
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.02	-0.02
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	-0.14	-0.47	-0.58	-0.74
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.16	-0.20	-0.17	-0.20
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.12	-0.26	-0.28	-0.35
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-3.96	-9.48	-10.71	-13.61
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-2.87	-5.99	-6.52	-8.21
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-3.96	-9.41	-10.60	-13.46
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	-3.96	-9.40	-10.60	-13.46
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.01	-0.02	-0.02	-0.03
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.02	-0.02	-0.03
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.35	-0.95	-1.10	-1.41
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.17	-1.96	-1.98	-2.45
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.04	-0.07	-0.07	-0.09
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.07	-0.07	-0.09
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.07	-0.07	-0.08
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.06	-0.11	-0.12	-0.15



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.30	-0.37	-0.32	-0.37
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.30	-0.37	-0.32	-0.37
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.03	-0.05	-0.05	-0.06
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.01
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.03	-0.02	-0.03
Peoria County: Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.04	-0.09	-0.09	-0.12
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.04	-0.06	-0.06	-0.08
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-8.87	-11.17	-9.83	-11.60
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	-12.15	-16.40	-15.00	-17.95
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-12.48	-17.39	-16.17	-19.45
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-12.48	-17.38	-16.17	-19.45
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.69	-2.23	-2.68	-3.46
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.71	-2.32	-2.79	-3.60
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.73	-2.38	-2.86	-3.69
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.07	-0.09	-0.08	-0.09
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.03	-0.03	-0.04
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.02
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.05	-0.16	-0.19	-0.25
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.30	-0.37	-0.33	-0.39
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	-0.16	-0.27	-0.28	-0.34
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-2.53	-3.77	-3.63	-4.41
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-2.43	-3.59	-3.44	-4.18
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.01	-0.02	-0.02	-0.02

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.02
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.29	-0.82	-0.96	-1.23
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.04	-0.05	-0.06
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.02	-0.06	-0.07	-0.09
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.58	-0.88	-0.86	-1.05
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.22	-2.19	-2.27	-2.82
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.99	-2.42	-2.09	-2.44
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.12	-0.27	-0.30	-0.38
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.05	-0.15	-0.19	-0.24
Rhinelander, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.02	-0.02
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.46	-0.74	-0.74	-0.90
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-0.46	-0.74	-0.74	-0.90
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.48	-0.79	-0.79	-0.98
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-11.41	-19.86	-20.37	-25.22
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.94	-2.38	-2.06	-2.42
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.14	-0.17	-0.15	-0.17
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.24	-2.02	-2.02	-2.48
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-12.77	-16.03	-14.07	-16.60
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-13.06	-16.72	-14.85	-17.59
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-13.06	-16.72	-14.85	-17.59
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-13.05	-16.69	-14.82	-17.55
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-0.04	-0.13	-0.16	-0.21

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	-0.92	-1.19	-1.06	-1.25
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-1.18	-2.01	-2.04	-2.52
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.05	-1.62	-1.58	-1.93
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-1.05	-1.62	-1.59	-1.94
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.47	-1.27	-1.47	-1.87
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-8.66	-10.79	-9.42	-11.09
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.99	-2.48	-2.83	-3.61
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-1.02	-2.52	-2.87	-3.66
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	-1.01	-2.51	-2.86	-3.65
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-14.62	-20.51	-19.15	-23.06
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-14.62	-20.51	-19.14	-23.05
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-14.63	-20.55	-19.19	-23.11
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-14.41	-20.04	-18.63	-22.40
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-21.87	-28.01	-24.88	-29.47
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-21.87	-28.01	-24.88	-29.47
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-21.94	-28.09	-24.94	-29.55
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-21.85	-27.98	-24.85	-29.44
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-21.85	-27.98	-24.85	-29.44
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.79	-0.97	-0.83	-0.98
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.79	-0.97	-0.83	-0.98
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.05	-0.04	-0.05
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.02	-0.02	-0.03
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.11	-0.23	-0.25	-0.31

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.57	-1.79	-2.14	-2.75
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.16	-0.37	-0.42	-0.53
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.03	-0.07	-0.07	-0.09
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.03	-0.06	-0.07	-0.08
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.07	-0.07	-0.09
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.02
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.02
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.58	-0.88	-0.86	-1.05
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.02
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.06	-0.18	-0.22	-0.29
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.19	-0.23	-0.29
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.05	-0.10	-0.12	-0.15
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-3.65	-4.46	-3.84	-4.51
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.20	-0.26	-0.23	-0.27
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	-2.38	-3.15	-2.85	-3.40
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.74	-4.23	-4.13	-5.05
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-2.76	-4.31	-4.23	-5.17
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.98	-1.21	-1.05	-1.24
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.98	-1.24	-1.09	-1.28
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.12	-0.26	-0.29	-0.37
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.02	-0.03
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.07	-0.24	-0.29	-0.37
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.02
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.09	-0.14	-0.13	-0.16

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.06	-0.07	-0.09
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.49	-0.60	-0.52	-0.61
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.07	-0.08	-0.10
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.77	-0.94	-0.81	-0.95
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	-0.13	-0.45	-0.55	-0.71
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.10	-0.14	-0.13	-0.16
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.02	-0.02	-0.03
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.09	-1.32	-1.14	-1.34
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.57	-1.92	-1.65	-1.94
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.06	-0.07	-0.06	-0.08
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.10	-1.34	-1.15	-1.35
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.32	-0.41	-0.36	-0.43
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.49	-0.61	-0.53	-0.62
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.65	-0.98	-0.94	-1.15
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.05	-0.18	-0.21	-0.28
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-8.32	-10.44	-9.16	-10.81
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-8.32	-10.44	-9.16	-10.81
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.08	-0.11	-0.09	-0.11
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.12	-0.20	-0.20	-0.24
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.05	-0.06	-0.07
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.08	-1.31	-1.13	-1.33
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.10	-1.34	-1.16	-1.36
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.11	-1.35	-1.17	-1.37
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.22	-0.52	-0.58	-0.74
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	-1.41	-3.63	-4.17	-5.33
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-1.41	-3.64	-4.18	-5.33
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.05	-0.16	-0.19	-0.25
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.04	-0.05	-0.06
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.79	-0.98	-0.86	-1.01
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.03	-0.04	-0.05
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.19	-0.43	-0.47	-0.60
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.05	-0.14	-0.17	-0.21
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.06	-0.07	-0.09
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.13	-0.22	-0.22	-0.27
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.06	-0.13	-0.15	-0.19
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.04	-0.08	-0.09	-0.11

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-4. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Sulfur Oxides (SO<sub>2</sub>), 2025**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.06	-0.07	-0.09
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.03	0.71	0.76	1.06
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.05	-0.01	-0.01	-0.01
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.01	-0.01	-0.01
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.03	0.03	0.05
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.48	2.43	2.62	3.60
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.04	0.05	0.06
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.51	2.30	2.48	3.41
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.03	-0.03	-0.04
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.05	0.01	0.01	0.02
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	2.00	8.87	9.55	13.14
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.01	-0.01	-0.01	-0.02
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.01
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.11	-0.15	-0.16	-0.22
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.01
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.01	-0.01	-0.01
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.25	2.16	2.32	3.21

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	0.02	0.02	0.03
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.01
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.08	-0.12	-0.13	-0.17
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.03	0.03	0.03	0.05
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.04	0.04	0.05
Armstrong County: Madison Twp, Mahoning Twp, Boggis Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.02	0.02	0.03
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.02	0.02	0.02
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.69	-0.96	-1.05	-1.41
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.52	-0.71	-0.77	-1.04
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	0.07	0.07	0.10
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.02	0.02	0.03
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	-0.18	0.11	0.11	0.17
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.19	0.11	0.11	0.17
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	12.87	57.42	61.84	85.07
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.03	-0.03	-0.04
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	1.56	6.95	7.49	10.30
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	1.57	6.96	7.50	10.32
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.04	0.25	0.27	0.38
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	-0.04	-0.06	-0.07	-0.09
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.04	0.07	0.07	0.10
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.15	0.68	0.73	1.00
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.27	1.19	1.28	1.76
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.02	-0.02	-0.03
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	-0.01
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	-0.01
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.01	0.01	0.01
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.08	0.48	0.52	0.72
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.02	-0.03	-0.03	-0.05
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.03	-0.04	-0.05	-0.06
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	-0.18	-0.24	-0.26	-0.35
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.31	-0.32	-0.35	-0.46
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	1.51	9.08	9.77	13.48
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	1.50	9.06	9.74	13.45
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.02	-0.02	-0.03
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.01	-0.01	-0.02
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.02	-0.03	-0.04
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.43	2.66	2.86	3.95
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.42	2.66	2.86	3.95
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.28	-0.39	-0.43	-0.58
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.02	0.40	0.43	0.60
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.05	0.67	0.72	1.00
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.44	0.47	0.65
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.02	0.84	0.90	1.25

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.04	0.68	0.73	1.02
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	-0.01
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.05	-0.04	-0.04	-0.05
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.17	-0.09	-0.10	-0.13
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	-0.17	-0.11	-0.13	-0.16
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.06	0.29	0.31	0.43
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	1.77	7.90	8.51	11.71
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.01
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.04	0.17	0.18	0.25
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.04	0.09	0.09	0.13
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.02	0.40	0.43	0.60
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.34	1.32	1.40	1.98
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.33	1.34	1.43	2.01
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.58	2.71	2.91	4.01
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.20	0.45	0.47	0.68
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.12	0.50	0.53	0.75
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.20	0.45	0.47	0.68
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	0.44	0.47	0.65
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.42	3.39	3.64	5.04
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.13	0.64	0.69	0.96
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.41	3.39	3.64	5.04
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.06	0.29	0.31	0.43
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.06	0.29	0.31	0.43
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.08	0.08	0.11
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	1.72	7.64	8.23	11.32
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.04	0.17	0.18	0.25
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.20	0.22	0.30
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.06	0.28	0.31	0.42
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.04	-0.04	-0.06
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.01	0.01	0.01
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.01	0.03	0.03	0.04
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	0.03	0.03	0.04
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.02	-0.02	-0.03
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.01	0.03	0.04	0.05
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.01
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.05	-0.06	-0.07	-0.09
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.05	0.05	0.07
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.17	-0.22	-0.24	-0.31
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.17	-0.22	-0.24	-0.32
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	0.39	1.87	2.02	2.77
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.28	1.24	1.33	1.83
Hancock County (Part) The city of Weirton, including Butler and Clay: Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.29	1.28	1.38	1.90

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.11	-0.15	-0.17	-0.22
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.12	-0.17	-0.18	-0.24
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.02	0.02	0.03
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.01	0.02	0.03	0.04
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	14.63	67.36	72.53	99.82
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	14.65	67.38	72.56	99.85
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.03	-0.05	-0.05	-0.07
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.05	-0.05	-0.07
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.03	-0.04	-0.04	-0.06
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.03	-0.04	-0.04	-0.06
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.03	-0.05	-0.05	-0.07
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.03	0.16	0.17	0.24
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.50	2.26	2.43	3.34
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.06	-0.09	-0.10	-0.13
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.01	0.04	0.04	0.06
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	-0.01	-0.01
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.03	-0.03	-0.04
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.27	1.26	1.36	1.87
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.02
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.27	1.23	1.33	1.82
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.27	1.19	1.28	1.76

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.49	2.23	2.40	3.31
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	1.35	6.05	6.51	8.96
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	1.35	6.05	6.51	8.96
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.01
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.01	-0.01	-0.01
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.09	-0.12	-0.14	-0.18
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.11	-0.13	-0.15	-0.20
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.01
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.02	0.17	0.18	0.25
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	1.74	7.85	8.46	11.64
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	1.76	7.88	8.49	11.67
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.05	-0.04	-0.05	-0.06
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.04	-0.05	-0.06
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.04	-0.04	-0.06

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.28	-0.39	-0.43	-0.58
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.28	-0.39	-0.43	-0.58
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.02	0.03	0.04
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	1.57	6.96	7.50	10.32
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.01
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.54	2.44	2.63	3.61
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.01	0.04	0.05	0.06
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.01	0.01	0.02
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.55	3.27	3.48	4.89
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	1.24	5.86	6.31	8.69
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	1.24	5.86	6.31	8.69
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.55	3.26	3.48	4.88
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	-0.55	3.26	3.48	4.88
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-0.55	3.27	3.48	4.89
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-0.55	3.27	3.48	4.89
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-0.55	3.27	3.48	4.89
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.15	-0.22	-0.24	-0.32
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.02	-0.02
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.60	2.76	2.97	4.09
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	2.00	8.88	9.57	13.16
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.01	-0.01	-0.01
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.46	-0.68	-0.74	-0.99

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.05	-0.08	-0.09	-0.11
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.04	0.19	0.20	0.27
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.01	-0.02	-0.02
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.35	0.37	0.52
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.03	0.30	0.32	0.44
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.15	-0.22	-0.24	-0.32
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.24	2.15	2.31	3.19
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.01	-0.01	-0.02
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.03	-0.04	-0.04	-0.05
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.01	0.01
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.02	0.02	0.03
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.02	0.02	0.03
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	-0.01
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.02	-0.03	-0.03

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.02	0.02	0.03
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.02
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.01	-0.01	-0.02	-0.02
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.01	-0.01	-0.02	-0.02
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	-0.10	-0.14	-0.16	-0.21
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.02	0.09	0.10	0.14
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.01	0.15	0.16	0.23
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-1.39	-1.71	-1.88	-2.50
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.70	-0.71	-0.78	-1.03
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-1.35	-1.64	-1.80	-2.39
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	-1.35	-1.64	-1.80	-2.39
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	-0.01	-0.01
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.17	-0.25	-0.27	-0.36
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.30	1.87	2.01	2.77
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.01	-0.01	-0.01
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.01
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.02
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Peoria County: Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	0.00	0.00	0.00
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.01
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.11	0.82	0.88	1.22
Philadelphia-Wilmington, PA-NJ-DE	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	0.12	2.08	2.23	3.09
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.06	1.81	1.93	2.70
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.06	1.81	1.93	2.70
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.45	-0.65	-0.71	-0.96
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.46	-0.68	-0.74	-1.00
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.48	-0.70	-0.76	-1.02
Pierce County; Tacoma, WA	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.02	0.02	0.03
Pima County; Ajo planning area, AZ	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM <sub>10</sub> (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.01	-0.01	-0.01
Pinal and Gila Counties; Payson, AZ	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal County (part); West Pinal, AZ	PM <sub>10</sub> (1987 24-hour)	Nonattainment, Serious	70	0	-0.03	-0.05	-0.05	-0.07
Pitkin County; Aspen, CO	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.05	0.06	0.08
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	0.01	0.01	0.01
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.66	3.58	3.85	5.31
Pittsburgh-Beaver Valley, PA	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Moderate	100	0	0.68	3.60	3.87	5.34
Plumas County, CA	PM <sub>2.5</sub> (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.14	-0.16	-0.17	-0.23
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM <sub>10</sub> (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.01	-0.02	-0.02	-0.03

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.33	1.62	1.75	2.41
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.12	0.15	0.15	0.22
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.57	2.51	2.70	3.72
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.04	-0.04	-0.04	-0.05
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.03	-0.05	-0.05	-0.07
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	-0.01
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.06	-0.08	-0.09	-0.12
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-0.06	-0.08	-0.09	-0.12
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.07	-0.10	-0.11	-0.14
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.54	3.28	3.50	4.91
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.14	0.63	0.68	0.93
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.01	0.01	0.02
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.08	0.12	0.13	0.18
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	1.98	9.23	9.93	13.67
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	1.87	9.07	9.76	13.44
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	1.87	9.07	9.76	13.44
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	1.87	9.08	9.77	13.45
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.04	-0.04	-0.06
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	0.46	2.09	2.25	3.10
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.29	1.85	1.99	2.75
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.37	1.96	2.11	2.90
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.37	1.96	2.11	2.90
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.11	0.16	0.17	0.25
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	1.29	5.96	6.42	8.84

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.41	-0.60	-0.66	-0.88
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.41	-0.60	-0.66	-0.88
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	-0.41	-0.60	-0.66	-0.88
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	1.27	8.20	8.82	12.17
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	1.27	8.20	8.82	12.17
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	1.26	8.19	8.80	12.16
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	1.33	8.29	8.92	12.31
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	3.13	15.20	16.36	22.53
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	3.13	15.20	16.36	22.53
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	3.14	15.23	16.40	22.58
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	3.13	15.20	16.36	22.53
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	3.13	15.20	16.36	22.53
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.17	0.78	0.84	1.15
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.17	0.78	0.84	1.15
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.02	0.11	0.12	0.17
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	-0.01	-0.01
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.03	-0.02	-0.02	-0.03
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.35	-0.50	-0.54	-0.73
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.07	-0.07	-0.10
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.01	-0.01	-0.02
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.33	1.62	1.75	2.41
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.04	-0.05	-0.06	-0.08
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.06	-0.06	-0.08
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	0.00	0.00	0.00
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.80	3.58	3.85	5.30
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	1.93	8.79	9.46	13.02
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	1.73	8.55	9.21	12.68
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	1.72	8.53	9.18	12.64
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.28	1.27	1.37	1.88
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.32	1.45	1.56	2.15
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.04	-0.05	-0.06	-0.08
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.02	0.03	0.04
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.05	-0.07	-0.08	-0.10
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.02
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.38	1.71	1.84	2.53
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.02	-0.02
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.04	0.17	0.18	0.25
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	-0.09	-0.14	-0.15	-0.20

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.01	0.01	0.02
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.01
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.01	0.01	0.01
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.62	2.75	2.96	4.07
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.53	2.37	2.56	3.52
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.01	0.03	0.04	0.05
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.55	2.46	2.65	3.65
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.01
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.03	0.16	0.18	0.24
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.83	3.68	3.96	5.45
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.33	1.63	1.75	2.41
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.03	-0.01	-0.01	-0.01
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	1.27	5.92	6.38	8.78
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	1.27	5.92	6.38	8.78
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.02
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.01
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.25	1.10	1.18	1.62
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.25	1.09	1.18	1.62
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.25	1.09	1.18	1.62
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.08	-0.10	-0.11	-0.15

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	-0.60	-0.83	-0.90	-1.21
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.60	-0.83	-0.90	-1.21
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.03	-0.05	-0.05	-0.07
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.01
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.15	0.67	0.72	0.99
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.01	-0.01	-0.01
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.05	-0.02	-0.02	-0.03
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.03	-0.03	-0.04
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.02	-0.02	-0.03
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.02	-0.03	-0.03	-0.04
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.02	-0.02	-0.02

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-5. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Sulfur Oxides (SO<sub>2</sub>), 2035**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.25	-0.49	-0.56	-0.71
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.71	4.55	7.65	10.77
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.37	-0.15	0.07	0.19
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.05	-0.06	-0.06	-0.07
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.03	0.21	0.35	0.49
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.56	16.48	25.18	34.72
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.29	0.44	0.60
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.98	15.75	23.70	32.57
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.34	-0.31	-0.21	-0.21
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.37	-0.03	0.25	0.44
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	3.98	60.70	91.21	125.30
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	0.00	0.01	0.02
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.08	-0.11	-0.11	-0.14
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.02	0.04	0.05
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.68	-1.22	-1.34	-1.68
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.03	-0.06	-0.07	-0.09
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.11	-0.08	-0.03	-0.02
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.89	14.23	22.85	31.86

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.02
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.10	0.09	0.21	0.32
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.04	-0.07	-0.08	-0.10
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.46	-0.92	-1.05	-1.34
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.31	0.11	0.41	0.65
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.25	0.38	0.53
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.01	0.12	0.19	0.26
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.11	0.17	0.24
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-4.15	-7.73	-8.68	-10.97
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-3.12	-5.70	-6.35	-8.00
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.05	-0.06	-0.08
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.23	0.39	0.78	1.14
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.12	0.18	0.25
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	-1.57	0.26	1.68	2.72
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-1.58	0.23	1.64	2.67
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	25.25	392.77	590.55	811.39
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	0.00	0.01	0.02
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.03	-0.04	-0.05
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.14	-0.22	-0.24	-0.29
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	3.07	47.55	71.49	98.21
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	3.12	47.65	71.60	98.36
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.68	1.50	2.89	4.17
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	-0.25	-0.49	-0.56	-0.71
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.02



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.43	0.33	0.86	1.31
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.30	4.62	6.94	9.54
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.53	8.15	12.24	16.82
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.02
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.13	-0.19	-0.19	-0.24
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.04	-0.04	-0.04
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.04	-0.04	-0.04
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.02	0.05	0.08	0.12
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	3.25	5.06	7.00
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.12	-0.24	-0.28	-0.36
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.02
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.18	-0.34	-0.38	-0.48
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	-1.09	-1.96	-2.16	-2.71
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-1.98	-2.75	-2.68	-3.20
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.10	60.88	94.78	131.28
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.19	60.71	94.59	131.03
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.13	-0.19	-0.19	-0.24
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.05	-0.10	-0.12	-0.15
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.13	-0.20	-0.21	-0.26
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.15	17.82	27.84	38.59
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.21	17.80	27.85	38.62
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-1.64	-3.14	-3.57	-4.52
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.40	2.56	4.31	6.06
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.27	4.11	7.42	10.59
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.56	2.77	4.76	6.74
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-1.26	5.25	9.19	13.05

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-1.21	4.22	7.55	10.76
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.02	-0.03	-0.04	-0.05
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.36	-0.35	-0.24	-0.25
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-1.22	-0.97	-0.52	-0.42
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	-1.15	-1.12	-0.82	-0.84
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.09	1.95	2.97	4.09
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	3.49	54.06	81.27	111.65
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.02	0.04	0.05
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.08	1.17	1.77	2.43
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.42	0.45	1.04	1.55
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.40	2.56	4.30	6.06
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-4.40	7.52	15.24	22.22
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-4.32	7.68	15.42	22.45
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.99	18.45	27.90	38.39
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.13	2.36	5.40	8.01
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-1.55	2.87	5.72	8.32
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-2.13	2.36	5.40	8.01
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	-0.74	2.70	4.79	6.82
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.20	22.39	35.80	49.88
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.16	4.37	6.67	9.19
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-1.21	22.38	35.78	49.85
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.12	1.96	2.96	4.07
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.13	1.97	2.97	4.08
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	-0.01	-0.02	-0.03	-0.04
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.03	-0.03	-0.04

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.01	-0.01	-0.02
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	0.50	0.80	1.11
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	3.42	52.29	78.58	107.95
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.06	1.13	1.72	2.37
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.23	1.28	2.18	3.08
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.11	1.94	2.93	4.03
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-0.15	-0.30	-0.35	-0.44
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.04	0.06	0.08
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.01	0.20	0.30	0.42
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	0.18	0.28	0.39
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.05	-0.06	-0.07
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.11	-0.16	-0.17	-0.21
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.01	0.23	0.35	0.49
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.05	-0.05	-0.07
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.32	-0.53	-0.56	-0.69
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.05	-0.05	-0.07
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.02	0.33	0.49	0.68
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-1.05	-1.77	-1.90	-2.36
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-1.05	-1.77	-1.90	-2.37
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	0.59	12.73	19.33	26.62
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.55	8.46	12.72	17.47
Hancock County (Part) The city of Weirton, including Butler and Clay; Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.57	8.75	13.15	18.07

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.70	-1.23	-1.35	-1.69
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.74	-1.34	-1.48	-1.86
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.13	0.21	0.29
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.01	0.17	0.25	0.35
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	25.98	459.65	693.98	954.44
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	26.11	459.84	694.18	954.68
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.05	-0.05	-0.07
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.05	-0.05	-0.07
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.19	-0.37	-0.43	-0.54
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.19	-0.37	-0.43	-0.54
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.16	-0.32	-0.36	-0.46
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.16	-0.32	-0.36	-0.46
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.19	-0.37	-0.42	-0.53
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.05	1.10	1.67	2.29
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.96	15.42	23.21	31.90
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.35	-0.69	-0.79	-1.01
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.01	0.28	0.43	0.59
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.03	-0.04	-0.04	-0.04
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.11	-0.22	-0.25	-0.32
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.49	8.62	13.01	17.89
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.04	-0.09	-0.10	-0.12
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.52	8.41	12.66	17.40
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.53	8.14	12.24	16.81

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.93	15.25	22.97	31.57
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.05	-0.05	-0.07
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	2.65	41.35	62.18	85.43
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	2.65	41.35	62.18	85.43
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.03	-0.03	-0.04
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.08	-0.09	-0.11
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.04	-0.08	-0.09	-0.11
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.05	-0.09	-0.10	-0.13
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.55	-1.00	-1.11	-1.40
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.67	-1.11	-1.19	-1.47
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.04	-0.07	-0.07	-0.09
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.07	1.10	1.77	2.46
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	3.29	53.67	80.83	111.09
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.03	-0.04	-0.04	-0.05
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	3.39	53.87	81.06	111.39
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.02
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.04	-0.05	-0.06
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.30	-0.39	-0.37	-0.43
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.30	-0.39	-0.37	-0.43
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.15	-0.30	-0.35	-0.44

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	-1.64	-3.14	-3.57	-4.53
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.64	-3.14	-3.57	-4.52
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	0.16	0.25	0.35
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	3.12	47.65	71.60	98.36
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.08	-0.08	-0.06	-0.07
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	1.00	16.66	25.10	34.51
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.01	0.29	0.44	0.60
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.13	-0.14	-0.18
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.05	0.07	0.15	0.21
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.03	0.00	0.02	0.04
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-8.58	19.30	36.96	53.35
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	2.03	39.93	60.47	83.22
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	2.03	39.93	60.47	83.22
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	-8.59	19.26	36.90	53.27
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	-8.59	19.26	36.90	53.28
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-8.58	19.30	36.95	53.35
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-8.58	19.31	36.97	53.36
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-8.58	19.30	36.96	53.35
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.89	-1.74	-1.98	-2.52
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.07	-0.12	-0.13	-0.17
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	1.05	18.84	28.46	39.15
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	3.96	60.77	91.33	125.48
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	-0.07	-0.14	-0.16	-0.20
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.04	-0.08	-0.09	-0.11
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-2.72	-5.36	-6.14	-7.81

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.31	-0.62	-0.71	-0.91
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.01	-0.01	-0.01	-0.01
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.01	-0.01	-0.01
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.07	1.27	1.91	2.63
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.06	-0.12	-0.14	-0.17
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.44	2.21	3.79	5.36
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.65	1.79	3.31	4.75
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.02	-0.03
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.89	-1.75	-2.01	-2.56
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.96	14.12	22.73	31.72
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.05	-0.09	-0.11	-0.14
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.09	-0.11	-0.14
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.16	-0.30	-0.34	-0.43
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	0.02	0.06	0.09
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.12	0.18	0.25
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.01	0.14	0.20	0.28
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.02	-0.04	-0.05	-0.06
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.03	-0.03	-0.04
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.02
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.03	-0.03	-0.04
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.10	-0.19	-0.21	-0.27

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.01	0.15	0.23	0.32
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	-0.05	-0.09	-0.10	-0.12
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.02
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.07	-0.12	-0.13	-0.16
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.07	-0.12	-0.13	-0.16
New Haven County, CT	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.03	-0.03	-0.04
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	-0.58	-1.14	-1.31	-1.67
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.04	0.64	0.96	1.32
New York County, NY	PM <sub>10</sub> (1987 24-hour)	Nonattainment, Moderate	100	0	-0.11	0.98	1.62	2.27
New York, NY-NJ-CT	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-8.57	-14.11	-15.02	-18.63
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-4.50	-6.11	-5.87	-7.00
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-8.41	-13.57	-14.31	-17.69
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	-8.41	-13.56	-14.30	-17.67
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.02	0.00	0.02	0.03
Nogales, AZ	PM <sub>2.5</sub> (2006 24-hour)	Nonattainment, Moderate	100	0	-0.02	-0.04	-0.04	-0.06
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.98	-1.95	-2.23	-2.84
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.06	12.49	19.48	27.00
Oakridge, OR	PM <sub>2.5</sub> (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	-0.01	-0.01
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.04	-0.08	-0.09	-0.12
Ogden Area, UT	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.08	-0.09	-0.12
Olmsted County; (part), MN	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.01	0.00	0.01
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.07	-0.11	-0.11	-0.14
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.01
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.01
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.03	-0.03	-0.03	-0.03
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.02	0.03	0.05
Peoria County: Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.06	-0.04	-0.02	-0.01
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.04	-0.07	-0.07	-0.09
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.24	5.43	8.65	12.04
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	-1.75	13.41	22.27	31.29
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-2.85	11.26	19.82	28.17
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-2.85	11.26	19.82	28.17
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	-2.63	-5.18	-5.93	-7.55
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-2.74	-5.39	-6.18	-7.86
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.81	-5.53	-6.34	-8.06
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.13	0.19	0.27
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.03	-0.07	-0.08	-0.10
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.03	-0.03	-0.04
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.19	-0.38	-0.43	-0.55
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.36	0.55	0.76
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	-0.13	0.01	0.12	0.20
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.44	24.15	37.20	51.40
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.56	24.32	37.38	51.63
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.01	0.01	0.02
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.03	-0.03	-0.04
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.85	-1.30	-1.33	-1.63
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.09	-0.10	-0.13
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.07	-0.13	-0.15	-0.20
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.42	11.02	16.80	23.15

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.02	-0.02
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.11	0.64	1.90	2.91
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	1.12	17.18	25.81	35.46
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.23	-0.31	-0.30	-0.36
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.19	-0.37	-0.43	-0.54
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.03	-0.04	-0.05
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.34	-0.66	-0.76	-0.96
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-0.34	-0.66	-0.76	-0.96
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.39	-0.78	-0.89	-1.13
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-8.53	19.41	37.08	53.51
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.26	4.30	6.48	8.90
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.07	0.11	0.15
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.80	0.58	1.54	2.34
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	3.34	62.89	95.13	130.89
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	2.70	61.64	93.70	129.07
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	2.70	61.64	93.70	129.07
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	2.73	61.71	93.77	129.17
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-0.16	-0.32	-0.37	-0.47
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	0.83	14.27	21.52	29.59
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.12	12.38	19.35	26.83
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.30	13.22	20.32	28.06
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.30	13.22	20.32	28.06
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.08	0.77	2.08	3.15
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	2.28	40.68	61.44	84.50
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-2.41	-4.76	-5.46	-6.95

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-2.42	-4.78	-5.49	-6.98
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	-2.41	-4.77	-5.47	-6.96
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.86	54.73	85.83	119.07
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.85	54.75	85.84	119.09
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.90	54.65	85.73	118.94
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.46	55.48	86.66	120.12
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	4.53	103.32	157.06	216.34
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	4.53	103.32	157.06	216.34
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	4.54	103.56	157.41	216.83
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	4.53	103.29	157.01	216.28
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	4.53	103.29	157.01	216.28
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.34	5.31	7.98	10.97
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.34	5.31	7.98	10.97
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.02	-0.02
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.04	0.76	1.15	1.58
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.02	-0.04	-0.05	-0.06
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.17	-0.19	-0.16	-0.18
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-2.06	-3.96	-4.49	-5.70
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.33	-0.54	-0.58	-0.72
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.04	-0.09	-0.10	-0.13
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.04	-0.08	-0.10	-0.12
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.04	-0.09	-0.10	-0.13
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.03	-0.03
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.03	-0.03	-0.04
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.04	-0.05	-0.06
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.42	11.02	16.80	23.15
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.01	0.02	0.03
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.22	-0.43	-0.49	-0.63
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.22	-0.44	-0.50	-0.64
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.08	-0.03	0.02	0.05
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	1.59	24.49	36.81	50.57
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.03	-0.03	-0.01	-0.01
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	3.52	60.01	90.49	124.42
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	2.34	58.06	88.43	121.86
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	2.25	57.88	88.22	121.59
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.54	8.68	13.06	17.95
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.59	9.92	14.95	20.56
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.22	-0.42	-0.47	-0.60
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.17	0.26	0.36
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.29	-0.56	-0.65	-0.82
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.02
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.05	-0.09	-0.10	-0.12
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.07	-0.13	-0.15	-0.20
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.01	0.01
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.76	11.70	17.58	24.14
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.06	-0.11	-0.13	-0.17
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.07	1.14	1.72	2.36
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	-0.55	-1.09	-1.25	-1.59
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	0.06	0.12	0.17
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.03	0.04	0.06

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.04	0.06	0.08
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.02	-0.02
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	1.23	18.79	28.24	38.79
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	1.06	16.24	24.40	33.53
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.01	0.23	0.35	0.48
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	1.10	16.85	25.31	34.77
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.03	0.04	0.06
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.04	1.11	1.70	2.34
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.03	-0.03
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	1.63	25.15	37.80	51.93
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.42	11.03	16.82	23.19
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.19	-0.11	-0.02	0.02
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	2.14	40.36	61.06	84.01
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	2.14	40.37	61.06	84.01
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.09	-0.12	-0.11	-0.13
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	-0.01	-0.01
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.04	-0.06	-0.06	-0.08
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.49	7.50	11.27	15.48
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.48	7.49	11.26	15.47
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.48	7.49	11.25	15.46
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.46	-0.84	-0.93	-1.17
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	-3.58	-6.63	-7.42	-9.37
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-3.58	-6.63	-7.43	-9.38

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.19	-0.38	-0.43	-0.55
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.04	-0.08	-0.09	-0.11
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.27	4.58	6.91	9.50
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.04	-0.07	-0.09	-0.11
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.33	-0.24	-0.10	-0.06
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.14	-0.23	-0.24	-0.30
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.04	-0.05	-0.06
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.07	-0.14	-0.16	-0.21
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.11	-0.15	-0.14	-0.17
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.12	-0.24	-0.28	-0.35
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.06	-0.12	-0.14	-0.18

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-6. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Sulfur Oxides (SO<sub>2</sub>), 2050**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.34	-0.65	-0.73	-0.88
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	1.60	7.18	10.10	12.53
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.26	-0.08	0.11	0.16
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.05	-0.08	-0.08	-0.09
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.08	0.33	0.46	0.57
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	7.45	24.78	33.12	40.89
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.13	0.43	0.57	0.71
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	7.36	23.51	31.16	38.44
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.32	-0.34	-0.26	-0.30
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.21	0.09	0.34	0.45
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	28.49	90.58	119.90	147.90
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	0.00	0.02	0.02
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.09	-0.14	-0.15	-0.17
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.03	0.05	0.06
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.89	-1.58	-1.73	-2.10
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.04	-0.08	-0.09	-0.11
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.09	-0.08	-0.04	-0.04
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	5.70	21.92	30.12	37.28

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.02
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	0.17	0.29	0.36
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.05	-0.09	-0.10	-0.13
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.65	-1.21	-1.36	-1.65
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.12	0.28	0.56	0.71
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.11	0.37	0.50	0.62
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.06	0.19	0.25	0.31
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.05	0.17	0.23	0.28
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-5.59	-10.15	-11.24	-13.60
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-4.15	-7.46	-8.21	-9.94
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.04	-0.07	-0.08	-0.09
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.04	0.67	1.04	1.30
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.05	0.17	0.23	0.29
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	-0.73	1.00	2.28	2.92
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.75	0.96	2.23	2.86
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	184.10	586.25	776.30	957.65
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.01	0.02	0.02
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.04	-0.05	-0.06
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.17	-0.29	-0.31	-0.37
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	22.30	70.97	93.97	115.92
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	22.37	71.11	94.12	116.11
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.29	2.54	3.83	4.78
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	-0.34	-0.65	-0.73	-0.88
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.03



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.08	0.67	1.16	1.46
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	2.17	6.89	9.13	11.26
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	3.82	12.16	16.09	19.85
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.02
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.15	-0.24	-0.25	-0.30
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.05	-0.04	-0.05
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.05	-0.05	-0.05
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.01	0.08	0.11	0.14
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	1.41	4.93	6.66	8.23
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.17	-0.32	-0.36	-0.44
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.24	-0.44	-0.49	-0.60
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	-1.44	-2.55	-2.79	-3.38
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-2.25	-3.41	-3.43	-4.11
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	26.38	92.41	124.78	154.22
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	26.26	92.18	124.53	153.91
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.15	-0.24	-0.25	-0.30
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.07	-0.13	-0.15	-0.18
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.15	-0.26	-0.27	-0.33
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	7.66	27.09	36.66	45.31
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	7.62	27.08	36.67	45.33
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-2.24	-4.14	-4.62	-5.60
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.89	4.04	5.69	7.05
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	1.10	6.72	9.82	12.23
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.90	4.42	6.30	7.82
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	1.60	8.45	12.16	15.11

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	1.18	6.87	9.99	12.43
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.02	-0.04	-0.05	-0.06
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.35	-0.39	-0.31	-0.35
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-1.08	-1.01	-0.64	-0.70
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	-1.10	-1.26	-1.02	-1.18
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.90	2.93	3.90	4.82
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	25.35	80.68	106.83	131.78
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.04	0.05	0.06
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.55	1.75	2.32	2.86
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.03	0.85	1.39	1.75
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.89	4.03	5.68	7.05
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.90	13.08	20.26	25.34
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	1.01	13.29	20.50	25.63
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	8.54	27.62	36.69	45.27
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.12	4.40	7.20	9.04
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	0.41	4.95	7.60	9.50
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.12	4.40	7.20	9.04
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	0.77	4.37	6.34	7.89
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	9.08	34.43	47.18	58.39
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	1.98	6.57	8.77	10.83
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	9.07	34.41	47.16	58.36
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.92	2.93	3.89	4.80
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.93	2.95	3.90	4.82
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	-0.02	-0.03	-0.04	-0.04
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.03	-0.04	-0.05

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.01	-0.02	-0.02
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.21	0.77	1.05	1.30
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	24.54	78.03	103.29	127.42
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.52	1.70	2.26	2.79
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.43	2.03	2.88	3.58
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.90	2.90	3.85	4.76
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-0.21	-0.40	-0.45	-0.55
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.02	0.06	0.08	0.09
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.09	0.30	0.40	0.49
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.08	0.27	0.37	0.46
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.06	-0.07	-0.09
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.13	-0.21	-0.22	-0.26
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.03	-0.03
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.10	0.35	0.46	0.57
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.07	-0.07	-0.08
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.40	-0.68	-0.72	-0.87
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.03	-0.06	-0.07	-0.08
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.15	0.49	0.65	0.80
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-1.33	-2.28	-2.45	-2.96
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-1.33	-2.28	-2.46	-2.96
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	5.85	19.09	25.42	31.37
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	3.97	12.63	16.72	20.62
Hancock County (Part) The city of Weirton, including Butler and Clay; Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	4.10	13.06	17.29	21.33

**Appendix B Air Quality Nonattainment Area Results**

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				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.91	-1.60	-1.75	-2.11
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.98	-1.75	-1.92	-2.32
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.01	-0.01	-0.01
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.06	0.20	0.28	0.34
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.08	0.25	0.33	0.41
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	213.53	687.44	912.45	1,125.85
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	213.68	687.68	912.69	1,126.14
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.03	-0.06	-0.07	-0.09
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.03	-0.06	-0.07	-0.08
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.26	-0.49	-0.55	-0.67
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.26	-0.49	-0.55	-0.67
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.22	-0.42	-0.47	-0.57
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.22	-0.42	-0.47	-0.57
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.26	-0.48	-0.54	-0.66
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.50	1.64	2.19	2.70
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	7.21	23.03	30.51	37.64
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.49	-0.91	-1.03	-1.24
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.13	0.42	0.57	0.70
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.03	-0.05	-0.05	-0.06
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.16	-0.29	-0.33	-0.40
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	4.00	12.88	17.10	21.10
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.06	-0.11	-0.13	-0.15
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	3.93	12.56	16.65	20.54
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	3.82	12.15	16.09	19.85

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	7.12	22.78	30.19	37.25
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.06	-0.07	-0.08
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.02	-0.02
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	19.38	61.73	81.74	100.83
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	19.38	61.73	81.74	100.83
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.03	-0.04	-0.05
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.03	-0.03	-0.03
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.10	-0.11	-0.14
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.06	-0.10	-0.11	-0.14
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.06	-0.12	-0.13	-0.16
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.73	-1.31	-1.44	-1.74
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.84	-1.43	-1.53	-1.85
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.05	-0.08	-0.09	-0.11
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.44	1.70	2.33	2.88
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	25.07	80.17	106.26	131.09
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.03	-0.05	-0.05	-0.06
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	25.21	80.44	106.55	131.45
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.03	-0.03
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.02
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.03	-0.05	-0.06	-0.07
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.33	-0.48	-0.47	-0.56
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.33	-0.48	-0.47	-0.56
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.21	-0.40	-0.45	-0.55

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	-2.25	-4.15	-4.63	-5.60
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.24	-4.14	-4.62	-5.60
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.06	0.24	0.33	0.41
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	22.37	71.10	94.12	116.10
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.08	-0.09	-0.08	-0.09
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	7.77	24.89	33.00	40.72
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.13	0.43	0.57	0.71
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.09	-0.17	-0.19	-0.23
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.12	0.19	0.24
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	0.01	0.03	0.04
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	3.77	32.56	49.04	61.19
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	18.43	59.80	79.51	98.13
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	18.43	59.80	79.51	98.13
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	3.75	32.50	48.96	61.09
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	3.75	32.50	48.96	61.10
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	3.77	32.56	49.03	61.18
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	3.77	32.57	49.05	61.20
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	3.77	32.56	49.04	61.19
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.23	-2.29	-2.57	-3.11
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.09	-0.16	-0.17	-0.21
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	8.74	28.19	37.42	46.17
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	28.51	90.69	120.06	148.10
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	-0.10	-0.18	-0.20	-0.25
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.05	-0.10	-0.12	-0.14
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-3.79	-7.10	-7.97	-9.66

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.44	-0.82	-0.93	-1.12
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.01	-0.01	-0.01	-0.01
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.01	-0.01	-0.01
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.59	1.89	2.51	3.10
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.08	-0.16	-0.18	-0.21
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.72	3.52	5.01	6.22
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.43	2.96	4.39	5.47
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.03	-0.03	-0.04
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.03	-0.03	-0.04
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.03	-0.03	-0.04
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-1.24	-2.32	-2.61	-3.16
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	5.62	21.78	29.97	37.10
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.07	-0.12	-0.14	-0.17
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.07	-0.12	-0.14	-0.17
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.22	-0.39	-0.44	-0.53
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	0.05	0.08	0.11
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.05	0.18	0.24	0.30
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.06	0.20	0.27	0.33
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.03	-0.06	-0.07	-0.08
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.04	-0.04	-0.05
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.02
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.04	-0.04	-0.05
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.13	-0.24	-0.27	-0.33

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.07	0.23	0.30	0.38
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	-0.07	-0.12	-0.13	-0.15
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.02	-0.02
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.09	-0.15	-0.16	-0.20
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.09	-0.15	-0.16	-0.20
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.04	-0.05	-0.05
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	-0.80	-1.51	-1.70	-2.06
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.30	0.95	1.26	1.55
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.36	1.53	2.13	2.65
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-10.73	-18.13	-19.39	-23.37
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-5.07	-7.56	-7.53	-9.00
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-10.41	-17.37	-18.46	-22.24
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	-10.40	-17.36	-18.45	-22.22
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.01	0.01	0.03	0.03
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.03	-0.05	-0.06	-0.07
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.37	-2.58	-2.90	-3.51
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	5.39	18.98	25.65	31.71
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.06	-0.11	-0.12	-0.14
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.11	-0.12	-0.14
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	0.00	0.00	0.01
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.08	-0.13	-0.14	-0.17
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.01
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.01
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.03	-0.04	-0.03	-0.04
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.03	0.04	0.05
Peoria County: Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.05	-0.04	-0.02	-0.02
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.05	-0.09	-0.10	-0.12
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	2.23	8.34	11.40	14.10
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	4.88	21.01	29.40	36.45
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	3.36	18.17	26.22	32.60
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	3.36	18.18	26.22	32.60
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	-3.66	-6.85	-7.69	-9.33
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-3.81	-7.14	-8.01	-9.71
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-3.91	-7.32	-8.22	-9.96
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.06	0.19	0.26	0.32
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.05	-0.09	-0.10	-0.12
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.03	-0.04	-0.05
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.27	-0.50	-0.56	-0.68
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.16	0.54	0.73	0.90
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	-0.07	0.06	0.16	0.21
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	10.72	36.47	48.95	60.47
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	10.86	36.69	49.19	60.75
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.01	0.02	0.02
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.04	-0.04	-0.05
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.02	-1.65	-1.72	-2.06
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.12	-0.13	-0.16
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.09	-0.18	-0.20	-0.24
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	5.01	16.56	22.09	27.28

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.32	1.40	2.55	3.23
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	8.06	25.63	33.93	41.85
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.26	-0.39	-0.39	-0.46
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.26	-0.49	-0.55	-0.67
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.05	-0.05	-0.06
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.47	-0.88	-0.98	-1.19
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-0.47	-0.88	-0.98	-1.19
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.55	-1.03	-1.15	-1.40
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	3.84	32.70	49.19	61.38
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	2.01	6.42	8.51	10.51
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.03	0.11	0.15	0.18
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.18	1.18	2.06	2.61
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	29.10	94.14	125.09	154.36
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	28.21	92.49	123.23	152.11
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	28.21	92.49	123.23	152.11
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	28.26	92.58	123.33	152.23
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-0.23	-0.42	-0.48	-0.58
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	6.64	21.33	28.30	34.91
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	5.31	18.82	25.48	31.50
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	5.90	19.94	26.74	33.02
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	5.90	19.94	26.73	33.02
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.25	1.59	2.78	3.51
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	18.89	60.85	80.78	99.67
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-3.36	-6.31	-7.08	-8.59

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-3.38	-6.33	-7.11	-8.63
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	-3.37	-6.31	-7.09	-8.60
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	23.30	83.36	113.03	139.74
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	23.31	83.38	113.05	139.77
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	23.24	83.25	112.90	139.58
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	23.84	84.34	114.11	141.05
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	47.29	155.03	206.56	254.96
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	47.29	155.03	206.56	254.96
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	47.40	155.37	207.02	255.53
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	47.28	154.98	206.49	254.88
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	47.28	154.98	206.49	254.88
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	2.49	7.92	10.49	12.94
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	2.49	7.92	10.49	12.94
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.35	1.14	1.51	1.86
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.03	-0.05	-0.06	-0.07
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.18	-0.23	-0.21	-0.24
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-2.82	-5.22	-5.82	-7.05
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.42	-0.70	-0.75	-0.90
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.06	-0.11	-0.13	-0.16
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.06	-0.11	-0.12	-0.15
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.06	-0.11	-0.13	-0.16
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.03	-0.04	-0.04
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.04	-0.04	-0.05
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.06	-0.06	-0.08
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.03	-0.03

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	5.01	16.56	22.09	27.28
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.02	0.03	0.04
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.30	-0.57	-0.64	-0.77
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.31	-0.58	-0.65	-0.79
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.06	-0.01	0.03	0.04
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	11.49	36.54	48.38	59.68
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.03	-0.03	-0.02	-0.02
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	27.95	89.69	118.97	146.79
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	26.47	87.20	116.31	143.58
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	26.34	86.96	116.04	143.25
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	4.06	12.96	17.17	21.18
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	4.62	14.82	19.66	24.25
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.30	-0.55	-0.61	-0.74
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.07	0.25	0.34	0.43
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.40	-0.75	-0.84	-1.02
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.06	-0.11	-0.13	-0.15
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.09	-0.18	-0.20	-0.24
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.01	0.01	0.01
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	5.49	17.45	23.10	28.50
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.08	-0.15	-0.17	-0.21
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.54	1.71	2.26	2.79
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	-0.77	-1.44	-1.62	-1.97
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	0.10	0.15	0.19
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.01	0.04	0.06	0.07

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.01	0.06	0.08	0.10
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.02	-0.03
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	8.82	28.04	37.12	45.79
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	7.62	24.23	32.08	39.57
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.11	0.35	0.46	0.57
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	7.91	25.14	33.27	41.05
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.01	0.04	0.06	0.07
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.50	1.67	2.23	2.76
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.03	-0.03	-0.04
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	11.80	37.53	49.69	61.29
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	5.02	16.58	22.13	27.31
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.15	-0.09	-0.01	0.00
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	18.68	60.42	80.28	99.07
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	18.68	60.42	80.29	99.07
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.10	-0.14	-0.14	-0.17
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	-0.01	-0.01	-0.01
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.05	-0.08	-0.08	-0.10
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	3.52	11.19	14.82	18.28
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	3.51	11.18	14.80	18.26
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	3.51	11.17	14.79	18.25
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.61	-1.09	-1.20	-1.46
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	-4.80	-8.69	-9.61	-11.63
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-4.80	-8.69	-9.62	-11.64

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.27	-0.50	-0.56	-0.68
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.06	-0.11	-0.12	-0.14
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	2.13	6.85	9.08	11.20
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.05	-0.10	-0.11	-0.14
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.28	-0.23	-0.12	-0.12
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.18	-0.29	-0.31	-0.37
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.05	-0.06	-0.07
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.10	-0.19	-0.21	-0.25
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.12	-0.19	-0.19	-0.22
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.17	-0.32	-0.36	-0.44
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.09	-0.17	-0.19	-0.23

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-7. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Nitrogen Oxides (NOX), 2025**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.68	0.96	1.34	1.84
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.91	0.87	2.26	3.19
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	1.15	1.61	2.24	3.08
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.08	0.14	0.20	0.28
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.01	0.02	0.02
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	0.05	0.11	0.16
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.45	0.47	1.20	1.69
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.14	-0.11	-0.11	-0.15
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.71	-1.41	-1.50	-2.03
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.93	1.35	1.91	2.63
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	1.08	1.56	2.21	3.05
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-4.42	-3.89	-4.31	-5.86
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.05	0.08	0.13	0.17
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.22	-0.08	0.00	0.01
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.02	-0.02	-0.02
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	2.08	2.83	3.92	5.39
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.10	0.13	0.18	0.25
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.31	0.45	0.63	0.87
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	3.05	5.73	8.69	12.03

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.14	-0.11	-0.12	-0.16
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.37	0.50	0.68	0.94
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.11	0.15	0.21	0.29
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	1.46	1.95	2.68	3.70
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.92	1.33	1.88	2.60
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-4.44	-3.88	-4.30	-5.83
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.95	-0.83	-0.92	-1.24
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.02	0.02	0.03
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	12.58	17.15	23.69	32.63
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	9.27	12.74	17.66	24.33
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.09	0.11	0.15	0.21
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.67	1.01	1.44	1.99
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	0.00	0.00	0.01
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	5.12	7.14	9.96	13.72
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	5.17	7.21	10.05	13.85
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-17.97	-14.99	-16.01	-21.68
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.01	0.02	0.03
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.05	0.07	0.10	0.14
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.23	0.41	0.62	0.85
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-1.93	-1.62	-1.74	-2.36
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-2.10	-1.84	-2.04	-2.78
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.89	2.08	3.31	4.59
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	0.68	0.95	1.33	1.84
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.02	0.03	0.05	0.06



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	1.53	2.09	2.90	4.00
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-2.22	-1.95	-2.17	-2.94
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.15	-1.01	-1.12	-1.52
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.02	0.03	0.04
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.04	0.23	0.40	0.56
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.09	0.12	0.17	0.23
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.09	0.12	0.17	0.23
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.04	0.06	0.09	0.13
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.13	0.24	0.54	0.75
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.40	0.53	0.73	1.00
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.03	0.03	0.05	0.07
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-1.36	-0.93	-0.82	-1.10
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	3.57	4.75	6.51	8.96
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	6.55	8.76	12.02	16.55
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	6.84	12.83	17.93
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.29	7.21	13.34	18.64
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.04	0.23	0.40	0.56
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.16	0.21	0.30	0.41
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.05	0.23	0.40	0.56
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	3.74	5.49	7.79	10.74
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	3.92	5.74	8.13	11.21
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	5.17	6.93	9.53	13.12
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	2.06	2.76	3.80	5.23
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	4.70	6.71	9.42	12.99
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	2.55	3.48	4.82	6.63
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	4.53	6.66	9.45	13.03

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	4.51	6.44	9.06	12.48
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.04	0.06	0.08	0.12
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.96	1.41	2.00	2.76
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	3.73	5.22	7.27	10.03
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	3.48	4.85	6.76	9.31
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.14	-0.06	-0.02	-0.02
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-10.44	-9.09	-10.03	-13.61
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.01	-0.01	-0.02
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.28	-0.24	-0.27	-0.37
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	1.65	2.20	3.02	4.16
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	2.06	2.76	3.80	5.23
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	12.36	19.04	27.39	37.81
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	12.10	18.69	26.92	37.16
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-6.80	-5.61	-5.95	-8.06
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	2.13	5.69	9.24	12.84
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	0.77	3.59	6.22	8.66
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	2.13	5.69	9.24	12.84
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	2.52	3.74	5.33	7.35
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	4.77	8.64	13.01	18.00
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.22	0.02	0.18	0.26
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	4.79	8.68	13.06	18.07
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.77	-0.66	-0.73	-0.98
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.79	-0.69	-0.76	-1.03
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.04	0.05	0.07	0.10
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.03	0.05	0.07	0.10

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.02	0.02	0.03	0.04
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.57	-0.41	-0.39	-0.52
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	-10.35	-9.09	-10.07	-13.68
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.21	-0.15	-0.14	-0.19
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.27	0.76	1.25	1.74
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.74	-0.62	-0.66	-0.89
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.50	0.66	0.91	1.25
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.01
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.27	-0.23	-0.25	-0.33
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.24	-0.19	-0.19	-0.26
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.02	0.02
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.08	0.11	0.14	0.20
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.02	0.02	0.03	0.04
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.27	0.40	0.56	0.78
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.03	0.04	0.06	0.08
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.54	-0.46	-0.50	-0.67
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.09	0.13	0.19	0.26
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.87	1.25	1.75	2.41
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.08	0.10	0.14	0.19
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-0.28	-0.24	-0.27	-0.36
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	3.37	4.52	6.21	8.55
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	3.37	4.52	6.22	8.56
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	-4.65	-3.68	-3.77	-5.09
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.29	-1.12	-1.24	-1.68
Hancock County (Part) The city of Weirton, including Butler and Clay: Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-2.02	-1.76	-1.95	-2.64

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	2.03	2.81	3.91	5.38
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	2.36	3.16	4.35	5.99
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.01	0.02	0.02	0.03
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.01	0.01	0.02	0.02
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.01	0.01	0.01	0.02
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.02	0.00	0.01	0.02
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.07	-0.06	-0.06	-0.09
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-47.60	-34.94	-33.47	-44.95
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-47.65	-35.17	-33.88	-45.51
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.08	0.10	0.14	0.19
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.07	0.10	0.14	0.19
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.56	0.76	1.06	1.46
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.56	0.76	1.06	1.46
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.51	0.68	0.94	1.29
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.51	0.68	0.94	1.29
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.54	0.75	1.04	1.43
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.19	-0.13	-0.12	-0.16
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-3.44	-2.95	-3.21	-4.36
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	1.08	1.46	2.00	2.76
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.01	0.00	0.00	0.00
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.04	0.08	0.13	0.18
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.36	0.48	0.66	0.90
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.98	-0.73	-0.71	-0.96
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.14	0.18	0.25	0.35
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.21	-1.02	-1.09	-1.48
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.14	-1.00	-1.11	-1.50

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-2.27	-1.88	-2.00	-2.71
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.08	0.10	0.14	0.19
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.02	0.02	0.03	0.04
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-6.45	-5.57	-6.11	-8.29
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-6.45	-5.57	-6.11	-8.29
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.04	0.06	0.08	0.11
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.03	0.04	0.06	0.08
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.12	0.17	0.23	0.32
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.12	0.17	0.23	0.32
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.14	0.19	0.27	0.37
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	1.38	2.02	2.86	3.95
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	1.32	2.16	3.15	4.36
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.11	0.15	0.21	0.29
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.02	0.03	0.04
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.50	0.68	0.94	1.29
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-9.82	-8.25	-8.86	-12.01
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.08	0.11	0.15	0.21
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-10.14	-8.69	-9.46	-12.84
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.01	0.01
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	0.03	0.05	0.06	0.09
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.03	0.04	0.05	0.07
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.07	0.09	0.13	0.17
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.87	1.23	1.71	2.36
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.87	1.23	1.71	2.36
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.01	0.01	0.01
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.50	0.66	0.91	1.25

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	5.18	6.94	9.54	13.13
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	5.17	6.93	9.53	13.12
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.05	0.08	0.11	0.16
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-2.09	-1.84	-2.04	-2.77
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.25	0.34	0.47	0.65
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-3.66	-3.08	-3.30	-4.48
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.14	-0.11	-0.11	-0.15
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.02	0.03
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.21	0.27	0.37	0.52
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-2.77	-2.35	-2.54	-3.44
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.10	0.14	0.19	0.26
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	28.69	41.67	58.86	81.18
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-4.67	-3.12	-2.71	-3.61
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-4.67	-3.12	-2.71	-3.61
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	28.72	41.71	58.91	81.24
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	28.72	41.70	58.90	81.23
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	28.70	41.68	58.88	81.20
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	28.68	41.65	58.84	81.15
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	28.69	41.67	58.86	81.18
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	2.85	3.80	5.22	7.18
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.20	0.28	0.38	0.53
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-3.16	-2.47	-2.50	-3.38
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-4.40	-3.83	-4.22	-5.72
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.22	0.30	0.41	0.56
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.13	0.17	0.23	0.32
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	8.71	11.62	15.93	21.93

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.97	1.31	1.80	2.48
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.03	0.04	0.06	0.09
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.03	0.04	0.06	0.09
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.58	-0.50	-0.54	-0.73
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.19	0.26	0.35	0.49
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	1.74	2.51	3.53	4.87
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	2.31	3.32	4.67	6.44
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.03	0.05	0.06	0.09
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.03	0.05	0.06	0.09
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.03	0.05	0.06	0.09
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	2.76	3.71	5.11	7.03
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	3.26	6.01	9.08	12.57
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.09	0.15	0.22	0.31
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.09	0.15	0.22	0.31
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.51	0.68	0.93	1.29
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.03	0.08	0.13	0.19
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.01	0.01	0.01
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.06	-0.05	-0.05	-0.07
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.07	0.10	0.13	0.18
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.02	-0.02	-0.02	-0.02
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.02	-0.02	-0.02	-0.02
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.04	0.06	0.08	0.11
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.03	0.04	0.05	0.07
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.06	0.08	0.11	0.15
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.31	0.42	0.57	0.79

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.08	-0.07	-0.07	-0.10
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.15	0.21	0.30	0.41
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.02	0.02	0.03	0.05
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.20	0.27	0.38	0.52
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.20	0.27	0.38	0.53
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.05	0.07	0.09	0.12
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	1.87	2.48	3.39	4.67
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.22	-0.19	-0.21	-0.28
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.64	0.86	1.19	1.64
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	25.71	35.38	49.06	67.59
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	12.83	18.13	25.37	34.97
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	25.14	34.67	48.12	66.29
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	25.13	34.65	48.09	66.25
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.07	0.09	0.13	0.18
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.06	0.08	0.11	0.16
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	3.09	4.14	5.69	7.84
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	1.67	2.95	4.40	6.09
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.01	0.01	0.01	0.02
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.13	0.17	0.24	0.33
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.13	0.17	0.24	0.33
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.03	0.05	0.08	0.11
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.15	0.23	0.33	0.46
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.06	-0.05	-0.05	-0.07
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.06	-0.05	-0.05	-0.07
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.07	0.11	0.15	0.20
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.10	-0.09	-0.09	-0.13



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	0.00	-0.01
Peoria County: Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.17	0.24	0.33	0.46
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.02	0.07	0.12	0.17
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-2.68	-1.35	-0.73	-0.92
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	1.44	5.66	9.65	13.44
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	4.92	10.32	16.06	22.26
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	4.91	10.31	16.04	22.24
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	8.42	11.22	15.39	21.19
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	8.76	11.68	16.02	22.06
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	8.98	11.98	16.43	22.61
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.11	-0.09	-0.10	-0.13
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.11	0.14	0.20	0.27
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.04	0.06	0.08	0.11
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.62	0.82	1.13	1.55
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.95	-1.68	-1.84	-2.50
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	0.31	0.49	0.72	0.99
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-3.63	-1.29	0.03	0.18
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-3.46	-1.31	-0.12	-0.04
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.01	0.01	0.02
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.05	0.06	0.09	0.12
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	2.70	3.66	5.04	6.95
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.14	0.19	0.26	0.36
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.22	0.30	0.41	0.56

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.56	1.00	1.49	2.06
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	0.00	0.01	0.02
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	4.14	5.57	7.66	10.55
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-3.10	-2.72	-3.02	-4.10
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.61	0.89	1.25	1.72
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.61	0.81	1.11	1.53
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.06	0.07	0.10	0.14
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	1.02	1.39	1.92	2.64
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	1.02	1.39	1.92	2.64
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	1.21	1.64	2.25	3.10
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	28.52	41.45	58.56	80.76
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.01	0.01
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-3.33	-2.89	-3.18	-4.32
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.51	-1.32	-1.47	-1.99
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.82	2.12	3.42	4.75
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-4.87	-2.98	-2.31	-3.04
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-2.95	-0.35	1.33	1.97
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-2.95	-0.35	1.33	1.97
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-3.05	-0.49	1.13	1.70
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.52	0.70	0.95	1.31
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	-1.23	-0.91	-0.87	-1.17
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	1.87	3.20	4.75	6.57
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.48	1.37	2.24	3.11
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.49	1.37	2.24	3.12
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	3.31	4.80	6.78	9.35
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-5.50	-4.19	-4.17	-5.61

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	7.60	10.18	13.99	19.26
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	7.63	10.22	14.05	19.34
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	7.60	10.19	14.00	19.28
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	8.62	15.00	22.34	30.90
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	8.60	14.97	22.30	30.84
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	8.76	15.19	22.60	31.25
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	7.36	13.30	20.01	27.68
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-4.55	-0.25	2.59	3.80
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-4.55	-0.25	2.59	3.80
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-4.63	-0.33	2.51	3.69
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-4.53	-0.24	2.61	3.82
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-4.53	-0.24	2.61	3.82
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.50	-0.43	-0.48	-0.65
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.50	-0.43	-0.48	-0.65
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.02	0.03	0.04	0.06
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.11	-0.09	-0.09	-0.12
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.01
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.06	0.09	0.12	0.16
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.55	0.75	1.04	1.43
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	6.57	8.78	12.05	16.59
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.99	1.37	1.90	2.62
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.14	0.18	0.25	0.35
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.13	0.18	0.24	0.34
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.14	0.18	0.25	0.35
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.03	0.05	0.07	0.09
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.05	0.06	0.09	0.12
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.07	0.09	0.13	0.18
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.03	0.04	0.05	0.07
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.56	1.00	1.49	2.06
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.14	-0.12	-0.13	-0.17
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	0.70	0.93	1.28	1.76
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.71	0.95	1.30	1.80
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.27	0.37	0.51	0.70
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-5.16	-4.51	-4.99	-6.78
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.04	0.09	0.13	0.19
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	-3.06	-2.01	-1.70	-2.26
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.34	2.75	4.93	6.89
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.64	3.15	5.48	7.63
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-1.93	-1.65	-1.79	-2.43
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-1.44	-1.17	-1.21	-1.64
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.72	0.96	1.32	1.81
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.03	0.05	0.07	0.10
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.09	-0.08	-0.09	-0.12
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.90	1.21	1.66	2.29
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.04	0.05	0.07	0.10
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.12	0.17	0.24	0.33
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.22	0.29	0.40	0.55
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.01
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.01	0.00	-0.01
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.54	-0.47	-0.52	-0.71
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.18	0.25	0.34	0.46
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.27	-0.24	-0.26	-0.35
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	1.78	2.37	3.24	4.47

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.06	0.12	0.17	0.24
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.03	-0.03	-0.05
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.12	-0.10	-0.10	-0.14
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.03	0.04	0.05	0.07
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.73	-1.52	-1.68	-2.28
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-2.44	-2.14	-2.36	-3.21
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.73	-0.64	-0.71	-0.96
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-4.72	-4.15	-4.60	-6.25
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	-0.03	-0.03	-0.03	-0.05
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-3.00	-2.58	-2.82	-3.83
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.04	0.05	0.07	0.09
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-3.49	-3.05	-3.36	-4.57
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.68	-0.09	0.28	0.42
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.65	0.88	1.21	1.66
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-4.87	-3.44	-3.18	-4.25
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-4.88	-3.45	-3.18	-4.26
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.01	0.02	0.03
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.06	0.18	0.31	0.43
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.01	0.01	0.01	0.02
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.10	0.15	0.21	0.28
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.93	-0.82	-0.91	-1.23
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.93	-0.80	-0.89	-1.20
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.92	-0.80	-0.88	-1.19
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	1.45	1.95	2.69	3.70

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	11.34	15.22	20.92	28.80
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	11.35	15.23	20.92	28.81
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.62	0.82	1.12	1.54
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.14	0.19	0.26	0.35
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.53	-0.42	-0.42	-0.57
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.12	0.16	0.22	0.30
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.03	0.03	0.05	0.06
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	1.12	1.52	2.09	2.88
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.47	0.63	0.86	1.18
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	0.07	0.09	0.12	0.17
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.23	0.31	0.42	0.58
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.12	0.27	0.42	0.58
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.40	0.53	0.72	0.99
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.20	0.27	0.37	0.51

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-8. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Nitrogen Oxides (NOX), 2035**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.61	-0.73	-0.56	-0.67
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-30.37	-35.15	-30.00	-34.47
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.87	-1.04	-0.78	-0.94
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.50	-0.58	-0.49	-0.56
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.15	-1.33	-1.13	-1.30
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-15.64	-18.10	-15.45	-17.75
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.14	-1.32	-1.13	-1.30
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-12.80	-14.77	-12.73	-14.58
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-1.47	-1.73	-1.38	-1.63
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-1.66	-1.95	-1.56	-1.84
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-29.72	-34.29	-29.60	-33.89
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.30	-0.35	-0.29	-0.34
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-3.11	-3.60	-3.08	-3.54
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.29	-0.33	-0.29	-0.33
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.56	-0.71	-0.41	-0.55
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.02	0.02	0.03	0.03
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.41	-0.48	-0.38	-0.45
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-23.52	-27.33	-22.97	-26.53
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.04	-1.20	-1.04	-1.19

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.03	0.02	0.05	0.05
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.03	0.03	0.03	0.04
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.07	0.03	0.17	0.14
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.39	-1.63	-1.30	-1.53
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-30.12	-34.76	-30.00	-34.34
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-6.41	-7.40	-6.39	-7.31
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.10	-0.12	-0.10	-0.12
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-3.29	-4.17	-2.37	-3.19
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-4.02	-4.92	-3.32	-4.16
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.02	0.02	0.03	0.03
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-1.59	-1.86	-1.52	-1.77
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.27	-0.32	-0.27	-0.31
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	-3.84	-4.59	-3.43	-4.13
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-3.83	-4.59	-3.42	-4.12
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-132.57	-153.04	-131.94	-151.09
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.16	-0.19	-0.16	-0.19
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.01	0.02	0.02
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.41	-1.64	-1.38	-1.59
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-14.06	-16.23	-14.00	-16.03
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-14.10	-16.27	-14.05	-16.08
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-12.84	-14.89	-12.59	-14.51
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	-0.61	-0.73	-0.56	-0.67
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.04	-0.03	-0.04
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.61	-0.75	-0.50	-0.63



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-14.97	-17.28	-14.92	-17.07
Brooke; Follansbee area, WV	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-7.75	-8.94	-7.72	-8.83
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.03	-0.03	-0.03
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.49	-2.89	-2.45	-2.82
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.06	-0.08	-0.06	-0.07
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.06	-0.08	-0.06	-0.07
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.20	-0.23	-0.20	-0.23
Canton-Massillon, OH	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-6.01	-6.96	-5.93	-6.82
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.10	0.10	0.12	0.13
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.01	0.01	0.01
Charleston, WV	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-12.96	-14.98	-12.87	-14.76
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	0.64	0.64	0.88	0.88
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.63	0.55	1.08	1.00
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-98.60	-114.21	-97.20	-111.80
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-98.63	-114.25	-97.21	-111.81
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-2.49	-2.89	-2.45	-2.82
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.02	0.00	-0.01
Chico, CA	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Moderate	100	0	-2.39	-2.77	-2.35	-2.70
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-6.70	-7.87	-6.34	-7.43
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-6.74	-7.92	-6.37	-7.47
Clark County; Las Vegas planning area, NV	PM <sub>10</sub> (1987 24-hour)	Maintenance, Serious	100	0	0.26	0.15	0.62	0.52
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.03	-0.02	0.17	0.12
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-5.56	-6.57	-5.15	-6.10
Cleveland, OH	PM <sub>2.5</sub> (2012 Annual)	Maintenance, Moderate	100	0	-0.78	-0.98	-0.60	-0.78
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-8.34	-9.79	-7.91	-9.26
Cleveland-Akron-Lorain, OH	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-5.57	-6.58	-5.18	-6.12

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.05	-0.06	-0.05	-0.06
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.80	-2.11	-1.71	-2.00
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-2.90	-3.46	-2.60	-3.12
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	-2.54	-3.04	-2.26	-2.73
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.85	-2.14	-1.84	-2.11
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-71.38	-82.37	-71.09	-81.38
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.13	-0.15	-0.13	-0.14
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.89	-2.18	-1.88	-2.15
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.16	0.14	0.28	0.26
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.03	-0.02	0.17	0.12
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-34.95	-40.84	-33.60	-39.10
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-35.02	-40.90	-33.68	-39.18
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-50.90	-58.76	-50.65	-58.01
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-40.88	-47.41	-40.15	-46.26
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-36.86	-42.72	-36.29	-41.76
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-40.88	-47.41	-40.15	-46.26
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	-5.14	-6.03	-4.90	-5.72
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-32.28	-37.53	-31.49	-36.40
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-4.51	-5.22	-4.46	-5.12
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-32.29	-37.54	-31.50	-36.41
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-5.35	-6.17	-5.33	-6.10
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-5.35	-6.18	-5.33	-6.10
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	-0.01	0.00	0.00
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	-0.01	-0.02	-0.01	-0.02
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.05	-0.05	-0.04	-0.05
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.01	0.01

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-5.18	-5.98	-5.15	-5.90
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	-69.75	-80.49	-69.48	-79.53
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-1.85	-2.13	-1.83	-2.10
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-5.77	-6.69	-5.67	-6.53
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-5.38	-6.21	-5.36	-6.13
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.12	0.12	0.15	0.16
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.06	-0.07	-0.06	-0.07
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-2.02	-2.33	-2.01	-2.30
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-2.01	-2.32	-2.00	-2.29
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.02	0.02	0.02	0.02
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.01
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.51	-0.59	-0.48	-0.56
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.01	0.01	0.01
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-3.81	-4.40	-3.79	-4.34
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.11	-0.13	-0.10	-0.12
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-1.09	-1.29	-1.02	-1.20
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.02	0.02	0.02	0.02
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-1.90	-2.19	-1.89	-2.17
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.08	-0.01	0.31	0.23
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.08	-0.01	0.31	0.23
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	-37.09	-42.83	-36.89	-42.26
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-8.83	-10.19	-8.80	-10.07
Hancock County (Part) The city of Weirton, including Butler and Clay; Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-13.70	-15.81	-13.65	-15.62
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-1.20	-1.45	-1.04	-1.27

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.04	-0.03	0.20	0.14
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.42	-0.48	-0.41	-0.47
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.49	-0.57	-0.49	-0.56
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-419.74	-484.81	-417.10	-477.97
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-417.35	-482.03	-414.74	-475.25
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.02	0.02	0.02	0.02
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.01	0.01	0.01	0.01
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.25	-0.31	-0.21	-0.26
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.25	-0.31	-0.21	-0.26
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.12	0.13	0.16	0.16
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.12	0.13	0.16	0.16
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.26	-0.31	-0.21	-0.27
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.85	-2.14	-1.84	-2.10
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-24.24	-27.97	-24.13	-27.63
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.08	-0.12	0.00	-0.04
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.22	-0.26	-0.22	-0.25
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.40	-0.47	-0.39	-0.45
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.09	0.09	0.11	0.11
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-8.40	-9.70	-8.34	-9.56
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	0.00	0.00
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-8.81	-10.17	-8.77	-10.05
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-7.74	-8.94	-7.71	-8.83
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-16.94	-19.55	-16.86	-19.30
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.02	0.02	0.02	0.02

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.01	0.01
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-44.77	-51.67	-44.58	-51.04
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-44.77	-51.67	-44.58	-51.04
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.01	0.01
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.01	0.01
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.03	-0.02	-0.02
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.03	-0.03	-0.02	-0.02
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.03	-0.04	-0.02	-0.03
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-2.47	-2.90	-2.34	-2.74
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-5.43	-6.33	-5.27	-6.10
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.04	-0.05	-0.04	-0.05
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.03	-0.05	0.00	-0.02
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-71.55	-82.59	-71.21	-81.54
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.01	-0.01
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-71.47	-82.50	-71.17	-81.48
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.04	-0.04	-0.03	-0.04
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.02	-0.01	-0.01
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.75	-0.90	-0.68	-0.81
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.75	-0.90	-0.68	-0.81
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.12	0.12	0.15	0.16
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	0.26	0.16	0.62	0.52
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.26	0.15	0.62	0.52

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.18	-0.21	-0.17	-0.20
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-14.10	-16.27	-14.05	-16.08
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.03	-0.04	-0.01	-0.03
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-26.73	-30.86	-26.61	-30.47
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-1.14	-1.32	-1.13	-1.30
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.05	0.05	0.06	0.06
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-19.93	-23.00	-19.84	-22.72
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.07	-0.08	-0.06	-0.07
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-44.88	-52.80	-42.25	-49.64
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-45.55	-52.62	-45.22	-51.84
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-45.55	-52.62	-45.22	-51.84
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	-44.75	-52.65	-42.12	-49.49
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	-44.75	-52.65	-42.12	-49.49
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-44.88	-52.80	-42.25	-49.64
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-44.88	-52.80	-42.25	-49.64
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-44.88	-52.80	-42.25	-49.64
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.32	0.29	0.52	0.49
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.13	-0.15	-0.11	-0.14
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-25.73	-29.71	-25.58	-29.31
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-30.19	-34.84	-30.07	-34.42
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.05	0.06	0.07	0.07
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.03	0.03	0.04	0.04
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	1.36	1.32	1.94	1.92
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.10	-0.14	-0.03	-0.07
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.02	-0.03	-0.02	-0.03

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.03	-0.02	-0.03
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-4.12	-4.76	-4.10	-4.70
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.05	0.05	0.06	0.06
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-2.48	-2.92	-2.32	-2.73
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-3.11	-3.67	-2.91	-3.43
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.01	0.01	0.01	0.01
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.01	0.01	0.01
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.01	0.01	0.01	0.01
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.07	-0.16	0.12	0.04
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-23.47	-27.27	-22.91	-26.47
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.36	-0.43	-0.35	-0.41
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.37	-0.43	-0.36	-0.41
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.06	0.05	0.09	0.08
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.60	-0.69	-0.59	-0.68
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.45	-0.52	-0.44	-0.51
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.46	-0.53	-0.45	-0.52
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.02	0.02	0.02	0.02
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.18	-0.20	-0.18	-0.20
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.18	-0.20	-0.18	-0.20
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.01	0.01	0.01
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.02	-0.01	-0.02
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	0.00	-0.01
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.02	0.02	0.05	0.04
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.63	-0.72	-0.62	-0.71
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	-0.12	-0.14	-0.11	-0.13
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.01	0.01

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.10	-0.13	-0.09	-0.11
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.10	-0.13	-0.09	-0.11
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.02	0.02
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	0.44	0.46	0.57	0.58
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.54	-1.77	-1.53	-1.75
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.01	-0.01	0.05	0.04
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-11.84	-14.45	-9.89	-12.31
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-12.66	-15.03	-11.59	-13.80
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-12.61	-15.32	-10.69	-13.21
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	-12.61	-15.33	-10.69	-13.21
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.01	0.01	0.02	0.02
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.02	0.02	0.02	0.02
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.11	0.04	0.32	0.26
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-10.05	-11.69	-9.79	-11.32
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.03	0.03	0.04	0.04
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.03	0.03	0.04	0.04
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.23	-0.27	-0.23	-0.26
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.48	-0.56	-0.46	-0.54
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.40	-0.46	-0.40	-0.45
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.40	-0.46	-0.40	-0.45
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.09	-0.11	-0.08	-0.10
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.66	-0.76	-0.65	-0.75
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.11	-0.13	-0.11	-0.13



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Peoria County; Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.18	-0.21	-0.16	-0.19
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.61	-0.71	-0.60	-0.69
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-32.48	-37.54	-32.21	-36.94
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	-53.79	-62.35	-52.93	-60.93
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-53.58	-62.20	-52.48	-60.54
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-53.59	-62.21	-52.49	-60.54
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	1.31	1.28	1.87	1.85
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	1.36	1.33	1.95	1.93
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	1.41	1.37	2.01	1.98
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.79	-0.91	-0.79	-0.90
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.03	0.03	0.03	0.03
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.01	0.01
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.11	0.11	0.15	0.15
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-13.48	-15.56	-13.43	-15.37
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	-1.16	-1.35	-1.12	-1.30
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-51.87	-59.97	-51.38	-58.97
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-48.29	-55.84	-47.85	-54.90
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.10	-0.12	-0.10	-0.11
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.01	0.01	0.02
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.41	-0.55	-0.21	-0.34
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.02	0.02	0.03	0.03
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.05	0.05	0.07	0.07
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-3.44	-4.00	-3.35	-3.87
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.20	-0.23	-0.20	-0.23

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.09	-0.22	0.20	0.08
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-20.85	-24.06	-20.77	-23.77
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.90	-1.06	-0.85	-0.99
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.15	0.15	0.19	0.19
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.01	0.01	0.02	0.02
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.18	-0.24	-0.11	-0.16
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-0.18	-0.24	-0.11	-0.16
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.14	-0.20	-0.06	-0.11
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-44.92	-52.84	-42.30	-49.69
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.02	-0.01	-0.02
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-22.95	-26.48	-22.85	-26.16
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-10.19	-11.76	-10.15	-11.61
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-14.69	-17.04	-14.43	-16.62
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-51.60	-59.62	-51.21	-58.71
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-52.15	-60.32	-51.62	-59.26
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-52.15	-60.32	-51.62	-59.26
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-52.17	-60.34	-51.64	-59.28
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.12	0.13	0.16	0.16
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	-10.72	-12.38	-10.65	-12.20
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-10.01	-11.64	-9.73	-11.26
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-10.34	-11.99	-10.16	-11.70
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-10.33	-11.98	-10.15	-11.70
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-5.08	-5.98	-4.78	-5.62
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-46.17	-53.32	-45.90	-52.59
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.42	0.27	0.94	0.81
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.43	0.27	0.95	0.81

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	0.42	0.27	0.94	0.81
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-49.33	-57.38	-48.03	-55.55
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-49.33	-57.38	-48.03	-55.56
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-49.30	-57.35	-47.99	-55.51
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-49.35	-57.37	-48.14	-55.64
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-84.68	-97.95	-83.80	-96.21
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-84.68	-97.95	-83.80	-96.21
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-85.26	-98.62	-84.37	-96.86
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-84.55	-97.81	-83.67	-96.06
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-84.55	-97.81	-83.67	-96.06
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-3.45	-3.99	-3.44	-3.94
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-3.45	-3.99	-3.44	-3.94
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.89	-1.03	-0.89	-1.02
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.02	0.02	0.02	0.02
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.17	-0.22	-0.13	-0.17
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.80	0.74	1.25	1.20
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.53	-0.64	-0.45	-0.56
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.02	0.02
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.02	0.02
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	0.01	0.02	0.02
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.03	-0.03	-0.03
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.01	0.02
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.02	0.02	0.02	0.02
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.01	0.01	0.01
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-3.44	-4.00	-3.35	-3.87
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-1.09	-1.25	-1.08	-1.24

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	0.11	0.10	0.15	0.15
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.11	0.11	0.16	0.16
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.06	-0.08	-0.04	-0.06
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-35.08	-40.48	-34.94	-40.00
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.42	-0.49	-0.41	-0.47
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	-30.41	-35.13	-30.19	-34.61
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-33.11	-38.36	-32.61	-37.52
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-33.04	-38.28	-32.52	-37.43
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-13.74	-15.86	-13.68	-15.66
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-11.21	-12.95	-11.15	-12.77
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.06	0.05	0.11	0.10
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.15	-0.18	-0.15	-0.17
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.63	-0.73	-0.63	-0.72
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.05	0.04	0.12	0.10
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.04	-0.05	-0.04	-0.05
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.18	-0.21	-0.17	-0.20
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.05	0.05	0.07	0.07
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.07	-0.08	-0.07	-0.07
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.13	-0.15	-0.13	-0.15
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-3.70	-4.27	-3.69	-4.22
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.01	0.02	0.02
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-1.86	-2.15	-1.86	-2.13
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	0.43	0.44	0.54	0.56
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.43	-0.50	-0.42	-0.48
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.23	-0.27	-0.23	-0.26
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.94	-1.09	-0.94	-1.08
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.01	0.01	0.01	0.01
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-11.60	-13.39	-11.56	-13.23
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-16.52	-19.07	-16.46	-18.84
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-4.99	-5.76	-4.97	-5.69
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-31.68	-36.56	-31.56	-36.13
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	-0.23	-0.27	-0.23	-0.26
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-20.93	-24.15	-20.84	-23.86
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.01	0.01
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-23.82	-27.49	-23.73	-27.16
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-11.82	-13.67	-11.70	-13.43
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.06	-0.09	-0.01	-0.04
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-44.92	-51.89	-44.62	-51.14
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-44.92	-51.89	-44.62	-51.14
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.21	-0.24	-0.21	-0.24
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.55	-1.79	-1.52	-1.75
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.01	-0.01	-0.01	-0.01
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.14	-0.17	-0.13	-0.16
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-6.32	-7.29	-6.29	-7.20
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-6.38	-7.37	-6.36	-7.28
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-6.41	-7.40	-6.38	-7.30
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.05	-0.10	0.05	0.00
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	0.40	0.14	1.18	0.94
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.40	0.14	1.18	0.95
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.15	0.15	0.19	0.19

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.05	-0.06	-0.04	-0.05
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-4.28	-4.95	-4.26	-4.88
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.02	0.02	0.03	0.03
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.01	0.01	0.01	0.01
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.18	-0.24	-0.10	-0.16
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.05	0.04	0.08	0.07
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	0.02	0.02	0.02	0.02
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.06	0.06	0.07	0.07
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-1.59	-1.85	-1.56	-1.80
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.09	0.10	0.12	0.12
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.05	0.05	0.06	0.06

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-9. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Nitrogen oxides (NOX), 2050**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.16	-2.33	-2.49	-3.09
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-30.84	-41.58	-37.87	-45.17
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.78	-3.69	-3.98	-4.95
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.58	-0.88	-0.84	-1.02
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.02	-0.02	-0.03
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.17	-1.60	-1.47	-1.75
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-15.90	-21.45	-19.55	-23.32
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.08	-1.33	-1.16	-1.36
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-11.99	-14.70	-12.69	-14.90
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-2.23	-4.08	-4.23	-5.21
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-2.54	-4.67	-4.85	-5.98
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-27.50	-33.18	-28.37	-33.22
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.35	-0.53	-0.51	-0.62
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-3.06	-3.99	-3.57	-4.24
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.28	-0.35	-0.31	-0.37
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-2.17	-5.22	-5.86	-7.36
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.05	-0.18	-0.22	-0.27
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.66	-1.25	-1.31	-1.62
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-26.75	-40.19	-38.57	-46.67
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.98	-1.20	-1.04	-1.22

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.25	-0.75	-0.88	-1.11
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.06	-0.20	-0.25	-0.31
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.04	-3.00	-3.50	-4.43
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-2.14	-3.95	-4.10	-5.06
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-27.90	-33.72	-28.86	-33.79
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-5.94	-7.18	-6.14	-7.20
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.11	-0.16	-0.15	-0.18
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-13.00	-31.48	-35.32	-44.38
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-11.23	-25.47	-28.12	-35.21
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.04	-0.15	-0.18	-0.23
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-2.16	-3.71	-3.76	-4.61
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.27	-0.35	-0.32	-0.38
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	-7.88	-16.38	-17.66	-21.99
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-7.91	-16.48	-17.78	-22.14
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-124.00	-151.77	-130.89	-153.65
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.17	-0.24	-0.22	-0.26
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.03	-0.10	-0.12	-0.15
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.65	-2.52	-2.44	-2.96
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-13.13	-16.05	-13.82	-16.22
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-13.05	-15.75	-13.47	-15.77
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-14.01	-20.28	-19.14	-23.06
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	-1.16	-2.33	-2.49	-3.09
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.10	-0.10	-0.12
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.80	-4.11	-4.55	-5.70



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-13.86	-16.73	-14.31	-16.75
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-7.17	-8.66	-7.40	-8.67
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.04	-0.07	-0.07	-0.09
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.62	-3.66	-3.39	-4.07
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.13	-0.27	-0.29	-0.37
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.13	-0.27	-0.29	-0.37
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.24	-0.37	-0.36	-0.43
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-6.14	-8.33	-7.61	-9.09
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.21	-0.71	-0.86	-1.09
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.05	-0.06	-0.07
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-12.43	-15.69	-13.79	-16.27
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	-2.05	-6.67	-7.93	-10.09
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-4.33	-13.01	-15.28	-19.38
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-102.41	-141.33	-130.28	-155.92
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-102.65	-141.95	-130.99	-156.82
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-2.62	-3.66	-3.39	-4.07
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.13	-0.35	-0.41	-0.51
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-2.52	-3.52	-3.27	-3.92
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-9.81	-17.55	-18.06	-22.24
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-9.99	-18.00	-18.56	-22.87
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-3.67	-10.63	-12.39	-15.69
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.53	-4.33	-5.02	-6.35
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-9.36	-17.97	-18.92	-23.43
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-2.76	-6.55	-7.31	-9.18
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-12.11	-21.58	-22.16	-27.28
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-9.21	-17.56	-18.45	-22.83

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.09	-0.17	-0.18	-0.22
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-2.60	-4.61	-4.73	-5.82
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-5.85	-12.09	-13.01	-16.19
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	-5.28	-11.03	-11.91	-14.83
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.82	-2.36	-2.11	-2.50
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-66.18	-80.09	-68.59	-80.35
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.12	-0.15	-0.13	-0.15
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.75	-2.11	-1.81	-2.12
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.08	-3.27	-3.84	-4.87
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.53	-4.33	-5.02	-6.35
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-45.71	-76.37	-76.59	-93.73
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-45.58	-75.91	-76.03	-93.02
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-47.69	-58.49	-50.51	-59.32
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-44.07	-63.10	-59.24	-71.25
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-38.87	-54.47	-50.59	-60.68
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-44.07	-63.10	-59.24	-71.25
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	-7.26	-12.73	-13.00	-15.98
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-37.16	-56.40	-54.38	-65.88
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-4.52	-5.99	-5.41	-6.44
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-37.19	-56.47	-54.45	-65.97
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-4.97	-6.03	-5.18	-6.07
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-4.96	-6.00	-5.14	-6.02
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	-0.03	-0.09	-0.10	-0.12
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	-0.01	-0.02	-0.01	-0.02
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.07	-0.14	-0.14	-0.18
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.03	-0.04	-0.05

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-4.94	-6.20	-5.43	-6.40
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	-64.56	-77.95	-66.67	-78.06
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-1.76	-2.20	-1.92	-2.27
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-6.20	-8.85	-8.30	-9.98
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-5.03	-6.15	-5.30	-6.22
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-0.26	-0.89	-1.07	-1.36
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.06	-0.07	-0.06	-0.07
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-1.88	-2.30	-1.99	-2.33
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-1.90	-2.36	-2.05	-2.42
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.02	-0.02	-0.02
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.14	-0.17	-0.22
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.03	-0.03	-0.04
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.73	-1.29	-1.33	-1.63
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.06	-0.07	-0.09
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-3.55	-4.32	-3.71	-4.35
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.19	-0.36	-0.38	-0.47
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-1.80	-3.42	-3.59	-4.44
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.04	-0.13	-0.16	-0.21
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-1.76	-2.13	-1.82	-2.14
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-2.48	-7.05	-8.18	-10.35
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-2.48	-7.05	-8.19	-10.36
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	-34.99	-43.28	-37.56	-44.18
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-8.19	-9.91	-8.49	-9.95
Hancock County (Part) The city of Weirton, including Butler and Clay: Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-12.69	-15.35	-13.14	-15.38
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-2.79	-6.04	-6.58	-8.22

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.76	-4.96	-5.75	-7.28
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.02	-0.03	-0.04
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	-0.02	-0.02	-0.02
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.02	-0.02	-0.02
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.41	-0.55	-0.49	-0.58
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.46	-0.56	-0.48	-0.57
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-399.68	-500.30	-437.32	-515.43
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-397.15	-496.76	-434.03	-511.49
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.04	-0.14	-0.17	-0.21
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.05	-0.15	-0.17	-0.22
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.69	-1.54	-1.70	-2.13
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.69	-1.54	-1.70	-2.13
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.27	-0.93	-1.12	-1.43
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.27	-0.93	-1.12	-1.43
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.68	-1.52	-1.68	-2.10
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.77	-2.24	-1.96	-2.32
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-22.55	-27.42	-23.55	-27.61
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.90	-2.40	-2.75	-3.47
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.22	-0.29	-0.26	-0.31
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.45	-0.66	-0.63	-0.76
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.19	-0.64	-0.77	-0.99
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-7.98	-9.95	-8.69	-10.23
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.11	-0.30	-0.34	-0.43
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-8.23	-10.06	-8.66	-10.17
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-7.17	-8.67	-7.42	-8.69
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-15.86	-19.44	-16.78	-19.70
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.13	-0.16	-0.21

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.03	-0.04	-0.05
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-41.58	-50.43	-43.25	-50.68
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-41.58	-50.43	-43.25	-50.68
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.08	-0.09	-0.12
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.06	-0.07	-0.08
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.12	-0.30	-0.34	-0.43
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.12	-0.30	-0.34	-0.43
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.14	-0.35	-0.39	-0.49
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-3.61	-6.46	-6.65	-8.19
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-6.65	-10.60	-10.44	-12.71
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.13	-0.30	-0.33	-0.42
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.03	-0.03	-0.04
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.42	-1.12	-1.29	-1.63
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-66.83	-81.65	-70.34	-82.54
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.07	-0.19	-0.21	-0.27
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-66.51	-80.86	-69.46	-81.43
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.07	-0.08	-0.10
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.06	-0.11	-0.11	-0.14
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.07	-0.16	-0.19	-0.23
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-1.45	-2.94	-3.14	-3.91
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-1.45	-2.94	-3.14	-3.91
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.26	-0.89	-1.07	-1.36
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	-3.67	-10.64	-12.40	-15.71
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-3.67	-10.63	-12.39	-15.69

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.23	-0.36	-0.36	-0.44
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-13.05	-15.76	-13.47	-15.78
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.23	-0.59	-0.67	-0.84
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-24.97	-30.51	-26.29	-30.85
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-1.08	-1.33	-1.16	-1.36
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.11	-0.37	-0.44	-0.56
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-18.59	-22.66	-19.50	-22.88
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.14	-0.30	-0.33	-0.41
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-68.46	-125.32	-129.89	-160.26
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-43.74	-55.34	-48.67	-57.47
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-43.74	-55.34	-48.67	-57.47
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	-68.35	-125.20	-129.80	-160.15
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	-68.35	-125.19	-129.80	-160.14
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-68.46	-125.33	-129.91	-160.28
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-68.45	-125.29	-129.87	-160.22
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-68.46	-125.32	-129.89	-160.26
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.83	-5.59	-6.58	-8.35
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.28	-0.60	-0.66	-0.82
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-24.31	-30.14	-26.20	-30.83
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-28.00	-33.90	-29.04	-34.02
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	-0.11	-0.40	-0.48	-0.61
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.07	-0.23	-0.27	-0.35
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-5.23	-16.59	-19.66	-24.98
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.84	-2.20	-2.51	-3.16
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.05	-0.10	-0.11	-0.14
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.05	-0.10	-0.11	-0.14

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-3.84	-4.67	-4.01	-4.71
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.10	-0.35	-0.42	-0.53
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-3.89	-7.24	-7.55	-9.32
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-4.99	-9.36	-9.78	-12.09
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.02	-0.06	-0.07	-0.09
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.06	-0.07	-0.09
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.06	-0.07	-0.09
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-2.17	-5.96	-6.88	-8.69
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-26.86	-40.57	-39.03	-47.26
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.45	-0.72	-0.71	-0.87
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.45	-0.72	-0.71	-0.87
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.33	-1.00	-1.18	-1.50
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.64	-0.92	-0.86	-1.04
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.44	-0.58	-0.52	-0.62
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.43	-0.52	-0.45	-0.53
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.04	-0.13	-0.15	-0.20
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.17	-0.21	-0.18	-0.21
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.17	-0.21	-0.18	-0.21
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.08	-0.10	-0.12
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.04	-0.08	-0.09	-0.11
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.05	-0.14	-0.15	-0.19
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.21	-0.63	-0.73	-0.93
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.59	-0.72	-0.62	-0.73
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	-0.24	-0.49	-0.53	-0.66
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.03	-0.04	-0.05
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.26	-0.57	-0.63	-0.78

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.26	-0.57	-0.63	-0.79
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.09	-0.11	-0.14
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	-0.96	-3.33	-4.01	-5.11
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.43	-1.73	-1.49	-1.75
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.48	-1.36	-1.57	-1.99
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-31.88	-71.63	-78.91	-98.74
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-22.92	-45.43	-48.31	-59.96
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-32.24	-71.53	-78.53	-98.19
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	-32.23	-71.50	-78.50	-98.14
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.04	-0.13	-0.16	-0.20
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.03	-0.11	-0.14	-0.17
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.23	-6.40	-7.45	-9.43
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-11.71	-17.96	-17.40	-21.10
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.02	-0.02
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.07	-0.23	-0.28	-0.36
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.07	-0.23	-0.28	-0.36
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.26	-0.39	-0.38	-0.45
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.61	-1.00	-0.99	-1.21
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.37	-0.45	-0.39	-0.45
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.37	-0.45	-0.39	-0.45
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.15	-0.29	-0.30	-0.37
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.61	-0.73	-0.63	-0.73
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.11	-0.14	-0.12	-0.14
Peoria County: Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.31	-0.61	-0.65	-0.80



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.65	-0.92	-0.86	-1.04
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-31.69	-40.85	-36.31	-43.01
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	-56.96	-80.15	-74.60	-89.53
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-59.40	-87.25	-82.89	-100.03
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-59.39	-87.24	-82.88	-100.01
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	-5.05	-16.02	-18.99	-24.13
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-5.26	-16.68	-19.77	-25.12
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-5.39	-17.11	-20.27	-25.77
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.74	-0.90	-0.78	-0.91
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.06	-0.19	-0.23	-0.30
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.08	-0.09	-0.12
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.35	-1.15	-1.36	-1.74
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-12.52	-15.19	-13.02	-15.26
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	-1.44	-2.31	-2.28	-2.78
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-51.10	-66.61	-59.58	-70.70
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-47.52	-61.85	-55.28	-65.58
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.10	-0.15	-0.13	-0.16
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.09	-0.10	-0.13
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-2.48	-6.32	-7.18	-9.05
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.08	-0.27	-0.32	-0.41
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.11	-0.39	-0.47	-0.59
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-4.00	-6.13	-5.93	-7.19
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.20	-0.27	-0.25	-0.29
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-3.25	-8.93	-10.31	-13.03

**Appendix B Air Quality Nonattainment Area Results**

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				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-19.29	-23.29	-19.91	-23.32
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-1.40	-2.59	-2.70	-3.33
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.31	-1.09	-1.31	-1.67
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.03	-0.10	-0.12	-0.15
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.97	-2.44	-2.77	-3.48
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-0.97	-2.44	-2.77	-3.48
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-1.07	-2.78	-3.17	-3.99
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-68.37	-125.02	-129.53	-159.79
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.02	-0.02	-0.02	-0.03
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-21.29	-25.79	-22.11	-25.90
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-9.43	-11.39	-9.74	-11.40
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-15.88	-22.80	-21.42	-25.78
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-49.88	-63.58	-56.16	-66.40
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-51.91	-68.46	-61.63	-73.27
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-51.91	-68.46	-61.63	-73.27
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-51.85	-68.26	-61.39	-72.96
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-0.27	-0.93	-1.12	-1.43
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	-10.20	-12.75	-11.14	-13.12
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-11.81	-18.31	-17.81	-21.63
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-11.10	-15.84	-14.85	-17.85
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-11.10	-15.85	-14.85	-17.86
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-7.80	-14.32	-14.86	-18.34
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-43.76	-54.47	-47.46	-55.88
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-5.35	-15.55	-18.14	-22.98
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-5.37	-15.61	-18.22	-23.08
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	-5.35	-15.57	-18.16	-23.01
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-57.79	-89.01	-86.37	-104.81

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-57.78	-88.97	-86.32	-104.75
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-57.87	-89.27	-86.68	-105.21
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-56.85	-86.36	-83.29	-100.91
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-84.48	-111.68	-100.67	-119.73
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-84.48	-111.68	-100.67	-119.73
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-85.02	-112.33	-101.22	-120.37
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-84.36	-111.54	-100.54	-119.58
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-84.36	-111.54	-100.54	-119.58
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-3.21	-3.89	-3.33	-3.90
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-3.21	-3.89	-3.33	-3.90
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.05	-0.05	-0.07
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.84	-1.05	-0.91	-1.07
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	-0.01	-0.01
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.03	-0.11	-0.14	-0.18
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.60	-1.42	-1.58	-1.98
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-4.17	-12.82	-15.11	-19.19
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-1.31	-2.87	-3.14	-3.93
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.09	-0.28	-0.32	-0.41
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.09	-0.27	-0.31	-0.40
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.09	-0.28	-0.32	-0.41
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.11	-0.12	-0.15
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.09	-0.10	-0.13
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.13	-0.15	-0.19
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.05	-0.06	-0.08
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-4.00	-6.13	-5.93	-7.19
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-1.02	-1.25	-1.08	-1.27
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.42	-1.34	-1.58	-2.01
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.43	-1.36	-1.61	-2.05

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.27	-0.67	-0.75	-0.94
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-32.50	-39.29	-33.63	-39.38
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.47	-0.69	-0.66	-0.80
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	-29.25	-37.07	-32.64	-38.55
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-34.64	-48.17	-44.58	-53.41
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-34.80	-48.71	-45.22	-54.22
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-12.80	-15.58	-13.39	-15.71
Steubenville-Weirton, OH-WV	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-10.54	-13.00	-11.26	-13.23
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.49	-1.44	-1.69	-2.14
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.18	-0.28	-0.27	-0.33
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.59	-0.71	-0.60	-0.71
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.63	-1.84	-2.15	-2.72
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.07	-0.14	-0.15	-0.18
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.28	-0.51	-0.53	-0.65
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-0.11	-0.39	-0.47	-0.60
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.06	-0.08	-0.07	-0.08
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.13	-0.16	-0.14	-0.17
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-3.43	-4.15	-3.55	-4.16
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.13	-0.37	-0.43	-0.55
Trona, CA	PM <sub>10</sub> (1987 24-hour)	Nonattainment, Moderate	100	0	-1.73	-2.09	-1.79	-2.10
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	-0.92	-3.18	-3.83	-4.88
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.49	-0.75	-0.72	-0.88
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.21	-0.26	-0.22	-0.26
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.89	-1.10	-0.95	-1.12
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.05	-0.06	-0.07
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-10.74	-12.96	-11.08	-12.97
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-15.30	-18.49	-15.82	-18.53

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-4.62	-5.59	-4.78	-5.60
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-29.31	-35.38	-30.25	-35.41
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	-0.21	-0.26	-0.22	-0.26
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-19.45	-23.62	-20.27	-23.75
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.07	-0.08	-0.10
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-22.08	-26.71	-22.87	-26.78
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-11.76	-15.50	-13.95	-16.58
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.56	-1.47	-1.68	-2.12
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-42.94	-54.00	-47.34	-55.84
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-42.94	-54.00	-47.33	-55.83
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.22	-0.30	-0.27	-0.33
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.65	-2.34	-2.18	-2.62
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.01	-0.02	-0.03	-0.03
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.22	-0.42	-0.43	-0.53
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-5.85	-7.07	-6.05	-7.08
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-5.92	-7.18	-6.15	-7.21
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-5.95	-7.22	-6.19	-7.25
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.16	-3.16	-3.64	-4.59
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	-8.22	-23.54	-27.39	-34.67
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-8.22	-23.55	-27.40	-34.68
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.32	-1.10	-1.32	-1.68
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.15	-0.35	-0.39	-0.49
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-4.04	-5.01	-4.35	-5.12
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.07	-0.23	-0.27	-0.35

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.01	-0.05	-0.06	-0.07
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.04	-2.63	-2.99	-3.76
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.31	-0.92	-1.08	-1.37
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.12	-0.15	-0.19
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.12	-0.41	-0.49	-0.63
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-1.74	-2.53	-2.39	-2.88
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.20	-0.71	-0.85	-1.09
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.11	-0.37	-0.44	-0.56

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-10. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Volatile Organic Compounds (VOCs), 2025**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-3.55	-5.26	-5.35	-7.34
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-7.99	-12.18	-11.41	-15.66
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.17	-1.91	-1.41	-1.93
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.07	0.00	0.00
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	0.00	0.00
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.14	-0.22	-0.16	-0.22
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-1.66	-2.73	-2.00	-2.73
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.07	-0.11	-0.11	-0.15
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.73	-1.09	-1.09	-1.50
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.80	-1.36	-0.88	-1.20
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.66	-1.19	-0.60	-0.81
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.45	-0.65	-0.71	-0.97
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	-0.01	0.04	0.06
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.59	-0.90	-0.85	-1.17
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.05	-0.05	-0.07
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.38	0.17	1.33	1.85
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.08	-0.14	-0.10	-0.13
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.04	-0.01	0.19	0.26
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.39	-0.61	2.81	3.91
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.03	-0.04	-0.04	-0.05

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.32	-0.53	-0.38	-0.53
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.47	-0.69	-0.70	-0.96
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.42	-0.86	-0.17	-0.22
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.34	-0.69	-0.16	-0.21
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.21	-1.75	-1.89	-2.60
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.35	-0.50	-0.55	-0.75
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.02	0.03
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.83	-1.12	5.71	7.95
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.64	-2.68	2.30	3.24
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.05	0.05	0.10	0.14
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.40	0.42	0.94	1.30
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.02	-0.01	-0.01
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	1.04	0.49	3.55	4.92
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	1.05	0.49	3.58	4.97
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-12.47	-18.31	-19.11	-26.25
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.04	-0.06	-0.05	-0.07
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.12	-0.18	-0.17	-0.24
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.91	-1.39	-1.28	-1.76
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-3.30	-4.79	-5.16	-7.09
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.73	-1.05	-1.15	-1.57
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.91	-1.81	-0.49	-0.66
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	-3.54	-5.25	-5.34	-7.33
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.10	-0.15	-0.15	-0.21
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-5.02	-7.53	-7.38	-10.13



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.35	-0.51	-0.56	-0.76
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.08	-0.11	-0.12	-0.16
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.02	0.02	0.03	0.05
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.10	-0.21	-0.01	-0.01
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.02	0.02	0.07	0.10
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.02	0.02	0.07	0.10
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.02	0.02	0.05	0.07
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.10	0.01	0.41	0.57
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.39	0.49	0.75	1.03
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.11	-0.16	-0.16	-0.22
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-5.75	-8.40	-8.89	-12.21
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	1.15	1.05	2.99	4.13
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.09	-1.28	2.02	2.83
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.75	-5.13	2.17	3.10
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-1.98	-5.52	1.89	2.72
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.10	-0.21	-0.01	-0.01
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.02	0.06	0.08
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.09	-0.20	0.00	0.00
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	2.26	2.42	5.16	7.13
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	2.38	2.57	5.42	7.49
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.21	-0.61	2.05	2.86
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	1.18	1.34	2.55	3.53
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	2.98	3.31	6.56	9.06
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	1.63	1.87	3.46	4.78
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	3.04	3.36	6.74	9.30
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	2.97	3.34	6.49	8.95

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.15	-0.23	-0.23	-0.31
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-2.52	-3.85	-3.57	-4.89
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	2.34	2.63	5.09	7.02
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	2.17	2.45	4.73	6.53
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.12	-0.20	-0.15	-0.21
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.46	-0.70	-0.66	-0.91
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.02	-0.03	-0.04
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.22	-0.32	-0.35	-0.48
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.94	1.07	2.03	2.81
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	1.18	1.34	2.56	3.53
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	3.15	1.43	10.87	15.08
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	2.97	1.21	10.50	14.57
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-1.58	-2.42	-2.24	-3.07
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-19.05	-28.96	-27.34	-37.50
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-15.49	-23.46	-22.36	-30.68
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-19.05	-28.96	-27.34	-37.50
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	0.34	-0.09	1.64	2.28
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-1.73	3.19	4.46
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.13	-0.27	-0.05	-0.07
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.03	-1.75	3.18	4.45
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.16	-0.23	-0.24	-0.32
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.13	-0.19	-0.20	-0.27
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.01	0.01	0.03	0.04
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.13	-0.19	-0.19	-0.26
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.10	-0.15	-0.16	-0.21

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.90	-1.33	-1.35	-1.86
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	-0.36	-0.52	-0.56	-0.76
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.14	-0.21	-0.19	-0.26
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.04	-0.15	0.44	0.61
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.10	-0.16	-0.14	-0.19
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-0.19	-0.35	-0.13	-0.18
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.02	-0.03	-0.04
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.18	-0.27	-0.28	-0.39
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.28	-0.42	-0.43	-0.59
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.14	-0.20	-0.22	-0.30
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.29	-1.88	-2.02	-2.77
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.26	-0.38	-0.41	-0.56
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.37	-0.59	-0.46	-0.63
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.03	0.04	0.06	0.08
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.25	-0.37	-0.39	-0.54
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	-0.01	0.05	0.07
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.61	0.69	1.31	1.80
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.02	0.02	0.03
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-0.04	-0.05	-0.06	-0.08
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-3.22	-5.24	-3.95	-5.40
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-3.22	-5.24	-3.96	-5.41
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	-5.11	-7.53	-7.78	-10.68
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.45	-0.65	-0.70	-0.96
Hancock County (Part) The city of Weirton, including Butler and Clay: Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.99	-1.43	-1.55	-2.13
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.33	0.08	1.26	1.75

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-2.24	-3.65	-2.75	-3.75
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.05	-0.08	-0.06	-0.09
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.02	-0.03	-0.03	-0.04
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-37.49	-56.75	-54.22	-74.38
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-36.77	-55.65	-53.23	-73.02
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.08	-0.13	-0.10	-0.14
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.21	-0.32	-0.31	-0.42
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.04	-0.16	0.13	0.19
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.04	-0.16	0.13	0.19
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.07	0.02	0.28	0.39
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.07	0.02	0.28	0.39
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.04	-0.17	0.13	0.18
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.16	-0.25	-0.23	-0.31
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.56	-2.28	-2.41	-3.31
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.50	0.52	1.15	1.59
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.04	-0.06	-0.05	-0.07
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	0.04	0.05
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.07	0.10	0.15
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.97	-1.45	-1.45	-1.98
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.08	-0.14	-0.08	-0.11
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.16	-0.26	-0.23	-0.31
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.08	-0.12	-0.12	-0.17
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.62	-0.94	-0.90	-1.24
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.02	0.02	0.03

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.09	-0.09	-0.13
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.86	-1.27	-1.28	-1.76
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.86	-1.27	-1.28	-1.76
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	0.01	0.01
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	0.00	0.01
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.02	0.05	0.06
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.02	0.05	0.06
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.02	0.05	0.07
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.43	-0.93	-0.09	-0.11
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.58	-1.22	-0.21	-0.27
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.10	-0.17	-0.12	-0.17
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	0.00	0.00
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.36	0.43	0.74	1.02
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.46	-2.25	-2.02	-2.77
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.06	0.07	0.12	0.17
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.02	-1.56	-1.45	-1.98
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.06	-0.09	-0.09	-0.13
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.03	-0.04	-0.05	-0.06
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	-0.05	-0.07	-0.06	-0.08
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	0.00	0.00
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.05	0.06	0.10	0.14
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.88	-1.44	-1.05	-1.44
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.88	-1.44	-1.05	-1.44
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.19	-0.35	-0.13	-0.18
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	0.21	-0.61	2.05	2.86
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.21	-0.61	2.05	2.86

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.00	0.04	0.05
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.77	-1.12	-1.22	-1.68
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.39	-0.61	-0.53	-0.72
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.46	-0.72	-0.62	-0.85
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.07	-0.11	-0.11	-0.15
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.07	-0.10	-0.10	-0.14
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.09	-0.17	-0.08	-0.11
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-2.85	-4.15	-4.44	-6.10
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.07	0.08	0.14	0.20
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	32.93	41.25	63.90	88.09
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.64	0.55	1.73	2.39
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	0.64	0.55	1.72	2.39
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	33.00	41.34	64.01	88.24
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	33.00	41.34	64.01	88.23
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	32.94	41.25	63.91	88.10
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	32.92	41.23	63.88	88.05
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	32.93	41.25	63.90	88.09
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	1.38	1.50	3.12	4.31
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.15	-0.26	-0.17	-0.23
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.74	-1.19	-0.95	-1.30
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.84	-1.23	-1.30	-1.79
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.24	0.30	0.44	0.61
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.09	0.11	0.18	0.25
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	3.76	3.92	8.80	12.16
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.45	0.47	1.03	1.43
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.01	-0.02	0.00	0.00
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.02	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.93	-1.35	-1.46	-2.01
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.04	0.06	0.08
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-2.03	-3.31	-2.50	-3.42
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-3.37	-5.36	-4.40	-6.02
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.04	-0.06	-0.05	-0.07
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.04	-0.07	-0.06	-0.08
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.04	-0.07	-0.05	-0.08
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.20	-0.20	1.24	1.73
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.25	-0.84	2.66	3.71
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-2.58	-3.74	-4.02	-5.52
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.59	-3.77	-4.04	-5.55
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.19	0.19	0.47	0.65
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.17	-0.26	-0.22	-0.30
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.03	0.04	0.06	0.09
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.02	-0.03	-0.02	-0.03
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.05	0.06	0.10	0.14
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.01	-0.02	-0.02	-0.02
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.01	-0.02	-0.02	-0.02
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.03	0.03	0.05	0.08
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.03	-0.02	-0.02
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.03	-0.06	-0.03	-0.05
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.44	-0.69	-0.59	-0.81
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.08	-0.12	-0.12	-0.17
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.18	0.23	0.34	0.47
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.01	0.02
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.19	0.23	0.37	0.51

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.19	0.23	0.37	0.51
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.08	-0.12	-0.11	-0.15
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	-3.07	-4.75	-4.25	-5.82
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.25	-0.37	-0.40	-0.55
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-1.22	-1.87	-1.70	-2.34
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-13.19	-23.92	-11.61	-15.74
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-9.91	-16.92	-10.72	-14.61
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-12.81	-23.29	-11.17	-15.13
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	-12.81	-23.29	-11.17	-15.13
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.06	0.08	0.12	0.17
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.09	-0.13	-0.11	-0.16
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.33	-0.07	1.55	2.16
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.35	-3.96	-2.65	-3.62
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	0.00	0.00
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.04	0.02	0.03
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.04	0.02	0.03
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.09	-0.07	-0.10
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.19	-0.32	-0.23	-0.31
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.13	-0.19	-0.21	-0.28
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.13	-0.19	-0.21	-0.28
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.05	0.06	0.11	0.16
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Peoria County: Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.10	0.11	0.22	0.31



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.22	-0.34	-0.31	-0.42
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.30	-2.26	-1.33	-1.81
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	-1.77	-4.24	0.37	0.58
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.24	-2.64	3.95	5.53
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.25	-2.65	3.94	5.52
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	3.63	3.78	8.50	11.74
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	3.78	3.94	8.85	12.23
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	3.89	4.05	9.09	12.56
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.09	-0.10	-0.13
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.04	0.04	0.09	0.13
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.08	-0.07	-0.09
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.29	0.31	0.66	0.91
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.37	-0.55	-0.57	-0.78
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	-0.30	-0.52	-0.31	-0.43
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-5.81	-9.11	-7.81	-10.69
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-5.32	-8.34	-7.15	-9.80
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.01	-0.02	-0.01	-0.02
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.07	-0.11	-0.09	-0.13
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	1.06	1.04	2.61	3.60
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.05	-1.53	-1.60	-2.20
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.06	0.05	0.17	0.24
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.29	0.23	0.82	1.14
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.02	0.03
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	1.14	0.91	3.20	4.43

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.24	-0.35	-0.38	-0.52
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.29	-0.55	-0.21	-0.28
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.63	0.81	1.20	1.65
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.23	-0.34	-0.34	-0.47
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	1.01	1.28	1.95	2.69
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	1.01	1.28	1.95	2.69
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	1.22	1.55	2.34	3.23
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	32.74	41.00	63.54	87.59
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.02	-0.03	-0.03	-0.04
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.99	-1.44	-1.53	-2.10
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.80	-1.16	-1.26	-1.73
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	2.38	2.89	4.76	6.57
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	1.21	1.25	2.85	3.94
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	1.87	1.85	4.58	6.33
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	1.87	1.85	4.57	6.32
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	1.82	1.79	4.46	6.16
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-0.09	-0.22	0.03	0.04
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	-0.44	-0.70	-0.57	-0.78
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-2.39	-4.04	-2.64	-3.61
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.10	-1.95	-1.06	-1.44
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-1.10	-1.95	-1.06	-1.44
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.10	-2.31	-0.37	-0.48
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.07	-0.34	0.36	0.50
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	1.44	0.74	4.81	6.67
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	1.42	0.70	4.78	6.62
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	1.41	0.70	4.76	6.60
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	11.27	13.43	23.16	31.95

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	11.25	13.41	23.13	31.91
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	11.38	13.56	23.38	32.26
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	10.38	12.37	21.33	29.43
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	2.18	1.71	6.14	8.51
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	2.18	1.71	6.14	8.51
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	2.11	1.62	6.04	8.37
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	2.23	1.78	6.23	8.62
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	2.23	1.78	6.23	8.62
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.26	-0.37	-0.40	-0.55
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.26	-0.37	-0.40	-0.55
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.01	0.03	0.04
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.53	-0.77	-0.84	-1.15
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.02	-0.03	-0.03	-0.04
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.09	-0.14	-0.12	-0.16
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.17	0.15	0.46	0.64
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-3.83	-6.67	-3.88	-5.28
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-2.63	-3.99	-3.79	-5.20
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.06	-0.11	-0.04	-0.06
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.05	-0.10	-0.04	-0.06
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.06	-0.11	-0.04	-0.06
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.07	-0.11	-0.10	-0.14
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.15	-0.22	-0.22	-0.30
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.24	-0.36	-0.36	-0.50
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.01	0.00	0.00
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.29	0.23	0.82	1.14
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.10	-0.15	-0.16	-0.22
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.41	-0.71	-0.42	-0.57
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.42	-0.73	-0.43	-0.58

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.09	0.05	0.07
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.79	-2.60	-2.81	-3.87
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.16	-0.24	-0.21	-0.29
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	-0.43	-0.88	-0.19	-0.24
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.68	-4.81	-2.47	-3.35
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-2.42	-4.48	-1.96	-2.65
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.65	-0.95	-0.98	-1.35
Steubenville-Weirton, OH-WV	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-1.34	-1.98	-2.04	-2.80
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.48	0.57	0.99	1.37
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.05	-0.08	-0.07	-0.09
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.05	-0.05	-0.07
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.18	-0.42	0.02	0.03
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.03	0.03	0.05	0.08
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.17	-0.27	-0.21	-0.29
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.15	0.17	0.30	0.42
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.04	-0.04	-0.05
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.01	0.01	0.02
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.03	-0.04	-0.04	-0.06
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.13	0.16	0.27	0.37
Trona, CA	PM <sub>10</sub> (1987 24-hour)	Nonattainment, Moderate	100	0	-0.21	-0.30	-0.33	-0.45
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	0.63	0.60	1.57	2.17
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.04	0.04	0.11	0.15
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.01	-0.01	-0.02
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.14	-0.20	-0.21	-0.29
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.03	0.03	0.05	0.07
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.98	-1.42	-1.55	-2.13
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.28	-1.86	-2.02	-2.78

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.34	-0.49	-0.53	-0.73
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.22	-0.32	-0.35	-0.48
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	-0.01	-0.01	-0.01	-0.02
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-3.16	-4.58	-4.95	-6.79
Union County; LaGrande, OR	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	0.00	0.01
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-1.87	-2.71	-2.94	-4.04
Utah County, UT	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-0.95	-1.56	-1.13	-1.55
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.43	0.51	0.91	1.25
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.92	1.00	2.06	2.84
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.91	1.00	2.05	2.83
Vermillion County; Part of Clinton Township, IN	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.09	-0.08	-0.11
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.46	-0.72	-0.63	-0.87
Walla Walla County; Wallula, WA	PM <sub>10</sub> (1987 24-hour)	Maintenance, Serious	100	0	-0.05	-0.07	-0.07	-0.10
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.09	-0.15	-0.10	-0.13
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.70	-1.00	-1.10	-1.51
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.10	-1.60	-1.73	-2.38
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.25	-1.80	-1.96	-2.69
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	1.02	1.21	2.10	2.89
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	3.63	3.23	9.52	13.17
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	3.63	3.23	9.52	13.17
Washoe County; Reno planning area, NV	PM <sub>10</sub> (1987 24-hour)	Maintenance, Serious	100	0	0.64	0.82	1.22	1.68
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.08	-0.15	-0.08	-0.11
Wayne County; (part), MI	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-0.12	-0.19	-0.15	-0.21
West Central Pinal County, AZ	PM <sub>2.5</sub> (2006 24-hour)	Nonattainment, Moderate	100	0	0.06	0.06	0.13	0.18

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.08	-0.12	-0.12	-0.16
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.94	1.16	1.88	2.59
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.09	0.05	0.30	0.41
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	-0.17	-0.25	-0.24	-0.33
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.56	-0.85	-0.81	-1.12
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.04	-0.01	0.17	0.24
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.34	-0.56	-0.41	-0.56
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.19	-0.31	-0.24	-0.32

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-11. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Volatile Organic Compounds (VOCs), 2035**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-29.10	-55.91	-63.66	-81.34
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-81.98	-158.24	-180.24	-230.49
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-18.61	-36.15	-41.20	-52.74
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.52	-2.98	-3.40	-4.36
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.10	-0.19	-0.22	-0.28
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-2.19	-4.26	-4.85	-6.21
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-26.98	-52.43	-59.75	-76.50
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.72	-1.38	-1.58	-2.01
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-6.31	-12.14	-13.82	-17.66
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-15.15	-29.48	-33.61	-43.04
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-15.84	-30.90	-35.23	-45.13
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-2.84	-5.41	-6.16	-7.86
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.77	-1.52	-1.73	-2.22
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-5.86	-11.31	-12.88	-16.47
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.35	-0.67	-0.77	-0.98
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-16.66	-32.89	-37.53	-48.18
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.37	-2.66	-3.03	-3.88
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-3.05	-6.01	-6.86	-8.80
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-55.32	-108.87	-124.21	-159.38
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.34	-0.67	-0.76	-0.97

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-5.25	-10.21	-11.64	-14.90
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-3.90	-7.50	-8.54	-10.91
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-15.37	-30.06	-34.28	-43.94
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-12.08	-23.62	-26.93	-34.52
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-7.96	-15.20	-17.30	-22.08
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-2.26	-4.32	-4.91	-6.27
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.12	-0.24	-0.27	-0.35
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-110.06	-216.61	-247.12	-317.10
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-91.04	-178.69	-203.82	-261.42
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.44	-0.88	-1.01	-1.30
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-5.44	-10.83	-12.37	-15.90
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.26	-0.51	-0.59	-0.75
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	-43.64	-86.15	-98.31	-126.22
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-44.01	-86.88	-99.14	-127.28
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-93.84	-179.93	-204.83	-261.63
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.47	-0.91	-1.04	-1.33
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.22	-2.36	-2.68	-3.43
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-9.62	-18.58	-21.16	-27.06
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-22.16	-42.35	-48.20	-61.53
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-4.58	-8.73	-9.94	-12.68
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-30.37	-59.37	-67.69	-86.75
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	-29.07	-55.85	-63.59	-81.25
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.89	-1.72	-1.96	-2.50
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-45.73	-88.07	-100.29	-128.21



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-2.27	-4.33	-4.92	-6.28
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.51	-0.98	-1.11	-1.42
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.06	-0.12	-0.14	-0.18
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-4.24	-8.29	-9.46	-12.12
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.68	-1.35	-1.54	-1.98
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.68	-1.35	-1.54	-1.98
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.47	-0.92	-1.05	-1.35
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-6.09	-12.01	-13.71	-17.60
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.96	-2.03	-2.32	-3.02
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.89	-1.70	-1.94	-2.48
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-41.16	-78.82	-89.72	-114.57
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	-23.37	-46.35	-52.91	-67.99
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-57.47	-112.92	-128.81	-165.24
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-140.49	-275.50	-314.21	-402.93
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-144.43	-283.16	-322.94	-414.11
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-4.24	-8.29	-9.46	-12.12
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.39	-2.74	-3.13	-4.01
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-4.10	-8.02	-9.14	-11.72
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-27.60	-55.06	-62.88	-80.88
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-28.48	-56.84	-64.92	-83.50
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-43.96	-86.48	-98.65	-126.58
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-10.68	-21.41	-24.46	-31.49
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-30.09	-60.21	-68.78	-88.51
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-13.31	-26.74	-30.56	-39.36
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-31.77	-63.55	-72.59	-93.41
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-28.40	-56.88	-64.99	-83.65

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-1.41	-2.71	-3.09	-3.95
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-26.61	-51.38	-58.53	-74.85
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-22.05	-44.17	-50.47	-64.96
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	-20.35	-40.77	-46.58	-59.96
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.98	-3.86	-4.39	-5.63
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-4.53	-8.75	-9.96	-12.74
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.12	-0.24	-0.27	-0.34
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.40	-2.66	-3.03	-3.87
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-8.39	-16.83	-19.23	-24.76
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-10.68	-21.42	-24.47	-31.50
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-135.09	-266.66	-304.29	-390.66
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-134.02	-264.47	-301.79	-387.43
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-16.82	-32.49	-37.01	-47.33
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-192.04	-370.56	-422.06	-539.69
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-152.42	-293.98	-334.82	-428.11
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-192.04	-370.56	-422.06	-539.69
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	-26.83	-52.86	-60.32	-77.41
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-84.53	-166.12	-189.50	-243.11
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-4.79	-9.37	-10.68	-13.70
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-84.83	-166.71	-190.17	-243.96
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.22	-2.35	-2.68	-3.42
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.91	-1.75	-1.99	-2.54
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	-0.27	-0.53	-0.60	-0.78
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.16	-2.24	-2.55	-3.26
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.80	-1.53	-1.74	-2.22

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-7.38	-14.19	-16.15	-20.64
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	-2.55	-4.89	-5.57	-7.11
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.03	-0.06	-0.07	-0.09
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-1.45	-2.79	-3.18	-4.07
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-9.74	-19.16	-21.86	-28.05
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.21	-2.35	-2.68	-3.43
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-5.40	-10.55	-12.03	-15.41
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.10	-0.20	-0.22	-0.29
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-1.38	-2.64	-3.01	-3.84
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-2.26	-4.35	-4.95	-6.33
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.95	-1.83	-2.08	-2.65
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-8.78	-16.80	-19.12	-24.41
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-1.77	-3.38	-3.85	-4.91
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-5.32	-10.32	-11.76	-15.05
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.06	-0.13	-0.15	-0.19
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.87	-3.58	-4.07	-5.20
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.91	-1.79	-2.05	-2.63
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-5.30	-10.64	-12.16	-15.65
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.65	-1.28	-1.46	-1.88
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-0.27	-0.52	-0.59	-0.76
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-49.76	-96.65	-110.14	-141.00
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-49.81	-96.73	-110.23	-141.12
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	-39.79	-76.37	-86.94	-111.07
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-3.02	-5.78	-6.58	-8.39
Hancock County (Part) The city of Weirton, including Butler and Clay: Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-6.42	-12.25	-13.94	-17.79
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-17.41	-34.35	-39.19	-50.31

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-34.77	-67.54	-76.96	-98.53
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.13	-0.26	-0.30	-0.38
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.08	-0.15	-0.17	-0.22
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.07	-0.15	-0.17	-0.21
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.65	-1.25	-1.43	-1.82
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.16	-0.31	-0.35	-0.44
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-366.60	-706.98	-805.20	-1,029.52
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-358.52	-691.37	-787.41	-1,006.78
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.17	-2.27	-2.58	-3.31
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.96	-3.78	-4.31	-5.50
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-5.49	-10.78	-12.29	-15.77
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-5.49	-10.78	-12.29	-15.76
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-3.94	-7.77	-8.86	-11.38
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-3.94	-7.77	-8.86	-11.38
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-5.41	-10.62	-12.11	-15.53
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.73	-3.34	-3.81	-4.87
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-11.28	-21.61	-24.59	-31.41
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.04	-0.05	-0.06
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-6.49	-12.93	-14.77	-18.99
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.40	-0.78	-0.88	-1.13
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.87	-1.70	-1.94	-2.49
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-3.12	-6.13	-6.99	-8.96
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-8.52	-16.39	-18.66	-23.85
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.03	-0.03	-0.04
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.70	-3.32	-3.79	-4.85
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.93	-3.74	-4.26	-5.45
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.59	-1.13	-1.29	-1.65

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-6.10	-11.77	-13.41	-17.14
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.65	-1.28	-1.46	-1.87
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.54	-1.03	-1.17	-1.50
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-7.25	-13.93	-15.86	-20.27
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-7.25	-13.93	-15.86	-20.27
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.39	-0.77	-0.88	-1.12
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.29	-0.56	-0.64	-0.82
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.12	-2.21	-2.52	-3.23
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.12	-2.21	-2.52	-3.23
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-1.29	-2.53	-2.89	-3.70
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-18.06	-35.34	-40.29	-51.65
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-22.47	-43.96	-50.12	-64.25
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.69	-3.29	-3.75	-4.80
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.15	-0.30	-0.34	-0.44
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-2.23	-4.52	-5.17	-6.66
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-16.46	-31.82	-36.24	-46.36
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.35	-0.71	-0.82	-1.05
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-10.82	-20.89	-23.80	-30.43
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.40	-0.77	-0.87	-1.12
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.20	-0.39	-0.44	-0.57
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	-0.59	-1.15	-1.31	-1.67
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.32	-0.63	-0.71	-0.91
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.31	-0.63	-0.73	-0.94
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-14.20	-27.59	-31.45	-40.26
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-14.20	-27.59	-31.44	-40.25
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.05	-0.09	-0.10	-0.13
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-5.40	-10.55	-12.03	-15.41

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	-44.00	-86.55	-98.74	-126.69
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-43.96	-86.48	-98.65	-126.58
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.62	-1.23	-1.40	-1.80
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-4.90	-9.36	-10.65	-13.59
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-4.73	-9.15	-10.42	-13.33
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-5.66	-10.96	-12.49	-15.98
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.72	-1.38	-1.58	-2.01
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.52	-1.00	-1.13	-1.45
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-2.35	-4.58	-5.22	-6.69
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-19.61	-37.52	-42.70	-54.52
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.51	-1.04	-1.18	-1.53
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-105.12	-218.50	-250.37	-324.23
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-14.59	-28.91	-33.00	-42.39
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-14.59	-28.91	-33.00	-42.39
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	-104.80	-217.91	-249.70	-323.37
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	-104.80	-217.90	-249.69	-323.36
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-105.15	-218.56	-250.45	-324.32
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-105.09	-218.44	-250.31	-324.15
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-105.12	-218.50	-250.37	-324.23
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-15.99	-31.93	-36.47	-46.91
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-2.88	-5.60	-6.38	-8.18
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-10.54	-20.46	-23.31	-29.84
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-6.11	-11.70	-13.32	-17.01
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	-0.42	-0.92	-1.05	-1.37
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.51	-1.04	-1.18	-1.53
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-51.41	-102.41	-116.95	-150.38

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-5.86	-11.67	-13.33	-17.14
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.36	-0.70	-0.79	-1.02
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.36	-0.70	-0.79	-1.02
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-6.14	-11.72	-13.34	-17.03
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.68	-3.30	-3.76	-4.82
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-31.34	-60.86	-69.35	-88.78
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-45.59	-88.39	-100.71	-128.89
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.54	-1.05	-1.20	-1.54
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.56	-1.08	-1.24	-1.58
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.55	-1.07	-1.22	-1.57
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-23.15	-45.56	-51.98	-66.70
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-58.01	-114.11	-130.17	-167.02
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-17.45	-33.36	-37.97	-48.47
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-17.55	-33.55	-38.19	-48.75
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-3.22	-6.41	-7.32	-9.40
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.10	-4.06	-4.63	-5.92
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.13	-0.27	-0.31	-0.41
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.16	-0.32	-0.36	-0.46
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.31	-0.63	-0.72	-0.92
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.12	-0.24	-0.27	-0.35
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.12	-0.24	-0.27	-0.35
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.22	-0.43	-0.50	-0.64
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.38	-0.74	-0.84	-1.08
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.74	-1.43	-1.63	-2.09
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-5.47	-10.59	-12.06	-15.43

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.60	-1.14	-1.30	-1.66
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	-0.35	-0.76	-0.87	-1.13
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.13	-0.25	-0.29	-0.37
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.70	-1.45	-1.66	-2.15
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.71	-1.46	-1.67	-2.16
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.92	-1.78	-2.02	-2.59
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	-35.16	-67.99	-77.45	-99.08
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.68	-3.21	-3.66	-4.67
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-13.30	-25.69	-29.27	-37.43
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-325.04	-634.07	-722.85	-926.12
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-192.01	-373.80	-426.07	-545.69
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-318.68	-621.71	-708.76	-908.08
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	-318.51	-621.38	-708.39	-907.61
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.21	-0.43	-0.49	-0.63
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-1.07	-2.08	-2.37	-3.03
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-25.01	-49.27	-56.21	-72.15
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-42.73	-83.14	-94.76	-121.35
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.08	-0.16	-0.19	-0.24
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.20	-2.34	-2.67	-3.43
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.20	-2.34	-2.67	-3.43
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.91	-1.77	-2.02	-2.59
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-3.13	-6.07	-6.92	-8.86
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.85	-1.62	-1.85	-2.35
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.85	-1.62	-1.85	-2.35
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.44	-0.88	-1.00	-1.29
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.02



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.06	-0.13	-0.14	-0.18
Peoria County: Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.09	-2.18	-2.48	-3.20
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-2.38	-4.59	-5.23	-6.69
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-27.19	-52.97	-60.37	-77.33
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	-94.46	-185.01	-210.98	-270.50
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-115.24	-226.42	-258.27	-331.31
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-115.20	-226.33	-258.18	-331.19
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	-49.69	-98.98	-113.03	-145.34
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-51.71	-103.00	-117.63	-151.25
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-52.98	-105.53	-120.51	-154.96
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.49	-0.93	-1.06	-1.36
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.68	-1.35	-1.54	-1.98
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.69	-1.35	-1.53	-1.96
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-3.46	-6.91	-7.90	-10.16
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.88	-5.54	-6.30	-8.05
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	-6.10	-11.89	-13.55	-17.35
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-72.55	-140.50	-160.08	-204.82
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-66.30	-128.38	-146.26	-187.15
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.21	-0.42	-0.48	-0.61
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.85	-1.65	-1.88	-2.40
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-17.67	-35.11	-40.08	-51.52
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.08	-0.16	-0.18	-0.23
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-7.80	-14.96	-17.03	-21.75
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-1.48	-2.93	-3.34	-4.30
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-7.66	-15.17	-17.31	-22.24

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.13	-0.27	-0.30	-0.39
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-29.45	-58.29	-66.53	-85.45
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.55	-2.96	-3.37	-4.30
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-8.40	-16.41	-18.71	-23.97
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.22	-2.63	-3.02	-3.93
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.90	-3.65	-4.15	-5.30
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-2.90	-6.07	-6.96	-9.02
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-2.90	-6.07	-6.96	-9.02
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-3.17	-6.67	-7.65	-9.93
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-104.89	-217.99	-249.79	-323.46
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.16	-0.31	-0.35	-0.45
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-6.91	-13.23	-15.06	-19.23
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-5.08	-9.69	-11.03	-14.07
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-11.60	-23.65	-27.06	-34.93
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-17.15	-34.14	-38.99	-50.13
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-30.72	-61.04	-69.70	-89.59
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-30.71	-61.04	-69.69	-89.58
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-30.12	-59.87	-68.35	-87.86
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-5.01	-9.81	-11.19	-14.34
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	-6.01	-11.66	-13.29	-17.01
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-44.57	-86.74	-98.86	-126.61
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-24.75	-48.25	-55.00	-70.46
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-24.78	-48.31	-55.07	-70.55
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-42.76	-83.64	-95.38	-122.26
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-12.55	-24.64	-28.11	-36.06
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-57.37	-113.27	-129.26	-165.96

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-57.82	-114.14	-130.26	-167.23
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	-57.64	-113.80	-129.87	-166.73
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-70.00	-141.65	-161.97	-208.83
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-69.90	-141.44	-161.73	-208.52
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-70.51	-142.68	-163.15	-210.35
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-64.48	-130.48	-149.19	-192.35
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-57.40	-113.61	-129.67	-166.55
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-57.40	-113.61	-129.67	-166.55
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-57.80	-114.37	-130.54	-167.66
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-57.05	-112.92	-128.89	-165.56
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-57.05	-112.92	-128.89	-165.56
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.74	-3.32	-3.78	-4.83
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-1.74	-3.32	-3.78	-4.83
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.14	-0.27	-0.31	-0.40
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-3.55	-6.79	-7.73	-9.86
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.13	-0.26	-0.29	-0.38
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-1.10	-2.12	-2.42	-3.09
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-3.99	-7.91	-9.03	-11.60
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-80.94	-157.70	-179.76	-230.26
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-25.96	-50.07	-57.03	-72.92
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-1.55	-3.03	-3.45	-4.42
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-1.50	-2.93	-3.34	-4.28
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.55	-3.03	-3.45	-4.42
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.81	-1.56	-1.78	-2.27
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.34	-2.59	-2.94	-3.76
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.12	-4.08	-4.65	-5.94
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.28	-0.56	-0.63	-0.81
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-7.66	-15.17	-17.31	-22.24

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.80	-1.54	-1.76	-2.24
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	-8.62	-16.78	-19.13	-24.51
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-8.78	-17.10	-19.49	-24.97
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-2.66	-5.21	-5.95	-7.63
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-11.77	-22.49	-25.60	-32.67
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.91	-3.69	-4.21	-5.39
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	-15.65	-30.61	-34.90	-44.73
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-63.33	-123.50	-140.79	-180.37
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-64.23	-125.36	-142.92	-183.13
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-5.06	-9.71	-11.05	-14.12
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-10.40	-19.96	-22.73	-29.03
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-3.23	-6.52	-7.46	-9.61
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.78	-1.52	-1.73	-2.21
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.22	-0.41	-0.47	-0.60
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-9.01	-17.64	-20.12	-25.79
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.22	-0.44	-0.51	-0.65
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-2.31	-4.48	-5.10	-6.53
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.94	-1.90	-2.17	-2.80
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.16	-0.31	-0.36	-0.45
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.05	-0.06	-0.08
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.25	-0.48	-0.55	-0.70
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.79	-1.59	-1.82	-2.35
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-1.35	-2.58	-2.93	-3.75
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	-11.24	-22.32	-25.48	-32.75
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.86	-1.71	-1.95	-2.50
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.06	-0.11	-0.12	-0.16
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.02	-1.96	-2.23	-2.85

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.02	-0.02
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.06	-0.14	-0.16	-0.20
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-6.19	-11.82	-13.45	-17.16
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-8.23	-15.70	-17.87	-22.81
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-2.19	-4.19	-4.77	-6.08
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.03	-0.06	-0.07	-0.09
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.39	-2.66	-3.02	-3.86
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	-0.06	-0.11	-0.12	-0.16
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-20.85	-39.84	-45.34	-57.87
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.35	-0.69	-0.79	-1.01
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-12.23	-23.35	-26.58	-33.92
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-15.47	-30.07	-34.27	-43.88
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-3.09	-6.22	-7.11	-9.17
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-10.23	-20.44	-23.35	-30.03
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-10.23	-20.43	-23.34	-30.02
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.63	-1.21	-1.38	-1.77
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-5.44	-10.52	-11.99	-15.34
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.35	-0.68	-0.77	-0.99
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-1.62	-3.15	-3.59	-4.59
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-4.42	-8.43	-9.60	-12.25
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-7.13	-13.61	-15.48	-19.76
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-8.08	-15.43	-17.56	-22.41
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-6.46	-13.07	-14.94	-19.26
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	-76.72	-152.09	-173.62	-223.06
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-76.75	-152.16	-173.70	-223.17
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-1.20	-2.59	-2.98	-3.88

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.78	-3.46	-3.95	-5.05
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.68	-3.26	-3.71	-4.76
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.68	-1.37	-1.56	-2.01
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.72	-1.38	-1.57	-2.01
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-4.17	-8.53	-9.76	-12.61
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-3.48	-6.88	-7.85	-10.08
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	-1.62	-3.13	-3.56	-4.55
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-5.49	-10.59	-12.07	-15.43
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-2.89	-5.69	-6.50	-8.34
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-5.52	-10.72	-12.22	-15.65
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.94	-5.70	-6.50	-8.32

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-12. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Volatile Organic Compounds (VOCs), 2050**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-40.46	-76.13	-85.38	-103.78
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-116.27	-221.28	-248.68	-302.74
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-27.17	-52.51	-59.18	-72.18
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.30	-4.52	-5.11	-6.25
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.15	-0.28	-0.32	-0.39
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-3.19	-6.17	-6.96	-8.49
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-39.44	-76.25	-85.94	-104.83
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.01	-1.92	-2.16	-2.63
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-8.81	-16.62	-18.65	-22.68
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-22.30	-43.27	-48.81	-59.56
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-23.54	-45.88	-51.79	-63.24
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-3.82	-7.05	-7.88	-9.55
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.19	-2.37	-2.69	-3.29
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-8.29	-15.76	-17.70	-21.55
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.49	-0.94	-1.05	-1.28
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-26.06	-52.05	-59.02	-72.27
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-2.00	-3.87	-4.37	-5.33
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-4.74	-9.43	-10.68	-13.07
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-85.47	-169.73	-192.26	-235.27
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.49	-0.95	-1.07	-1.30

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-7.68	-14.86	-16.74	-20.42
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-5.43	-10.23	-11.47	-13.95
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-23.11	-45.31	-51.20	-62.56
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-18.15	-35.56	-40.18	-49.09
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-10.76	-19.96	-22.31	-27.07
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-3.05	-5.65	-6.32	-7.66
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.20	-0.40	-0.46	-0.56
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-170.11	-337.88	-382.74	-468.38
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-139.10	-274.79	-310.97	-380.30
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.73	-1.50	-1.71	-2.10
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-8.87	-18.04	-20.52	-25.17
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.39	-0.77	-0.87	-1.06
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	-68.32	-136.49	-154.77	-189.53
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-68.89	-137.63	-156.07	-191.12
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-129.06	-241.56	-270.61	-328.73
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.68	-1.30	-1.46	-1.78
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.73	-3.29	-3.70	-4.50
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-13.68	-26.07	-29.30	-35.68
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-30.01	-55.73	-62.33	-75.64
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-6.15	-11.36	-12.69	-15.39
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-45.56	-89.23	-100.81	-123.16
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	-40.42	-76.06	-85.29	-103.68
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.25	-2.35	-2.64	-3.21
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-64.12	-121.35	-136.23	-165.72



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-3.06	-5.65	-6.32	-7.67
Brooke; Follansbee area, WV	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-0.69	-1.28	-1.44	-1.74
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.11	-0.24	-0.28	-0.34
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-6.39	-12.56	-14.20	-17.35
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-1.08	-2.17	-2.46	-3.01
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.08	-2.17	-2.46	-3.01
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.74	-1.49	-1.69	-2.07
Canton-Massillon, OH	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-9.48	-18.90	-21.42	-26.22
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-1.95	-4.29	-4.95	-6.13
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.23	-2.32	-2.61	-3.17
Charleston, WV	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-56.27	-104.97	-117.51	-142.69
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	-37.31	-75.19	-85.40	-104.69
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-88.19	-174.57	-197.63	-241.75
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-213.75	-421.41	-476.72	-582.86
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-219.53	-432.58	-489.31	-598.22
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-6.39	-12.56	-14.20	-17.35
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-2.14	-4.25	-4.81	-5.89
Chico, CA	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Moderate	100	0	-6.19	-12.16	-13.75	-16.80
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-45.14	-91.96	-104.64	-128.43
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-46.65	-95.09	-108.21	-132.82
Clark County; Las Vegas planning area, NV	PM <sub>10</sub> (1987 24-hour)	Maintenance, Serious	100	0	-67.82	-134.56	-152.40	-186.47
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-17.84	-36.66	-41.78	-51.33
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-49.84	-102.07	-116.26	-142.78
Cleveland, OH	PM <sub>2.5</sub> (2012 Annual)	Maintenance, Moderate	100	0	-22.42	-46.24	-52.73	-64.81
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-52.51	-107.43	-122.33	-150.22
Cleveland-Akron-Lorain, OH	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-47.24	-96.91	-110.41	-135.62

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-1.98	-3.74	-4.20	-5.11
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-37.82	-72.07	-81.02	-98.65
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-36.71	-75.34	-85.84	-105.44
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	-33.90	-69.59	-79.29	-97.40
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.90	-5.60	-6.31	-7.70
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-6.41	-12.18	-13.68	-16.65
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.17	-0.32	-0.35	-0.43
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.88	-3.47	-3.88	-4.71
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-14.04	-28.86	-32.90	-40.42
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-17.84	-36.67	-41.79	-51.35
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-211.39	-422.25	-478.81	-586.33
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-209.52	-418.33	-474.33	-580.81
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-23.93	-45.60	-51.27	-62.42
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-271.95	-517.16	-581.13	-707.37
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-215.38	-409.15	-459.66	-559.44
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-271.95	-517.16	-581.13	-707.37
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	-41.64	-82.87	-93.90	-114.94
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-129.85	-257.18	-291.18	-356.21
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-7.21	-14.13	-15.96	-19.51
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-130.30	-258.05	-292.16	-357.41
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.69	-3.18	-3.56	-4.33
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-1.25	-2.33	-2.61	-3.16
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	-0.42	-0.85	-0.97	-1.19
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	-0.01
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.63	-3.09	-3.46	-4.21
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-1.10	-2.06	-2.31	-2.81

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-10.24	-19.27	-21.62	-26.28
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	-3.49	-6.51	-7.29	-8.85
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.05	-0.09	-0.10	-0.13
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-2.05	-3.90	-4.39	-5.34
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-15.03	-29.82	-33.77	-41.31
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.74	-3.34	-3.76	-4.58
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-8.06	-15.76	-17.80	-21.74
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.14	-0.26	-0.29	-0.35
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-1.89	-3.55	-3.97	-4.83
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-3.14	-5.90	-6.61	-8.03
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.29	-2.40	-2.69	-3.26
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-11.93	-22.16	-24.80	-30.09
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-2.40	-4.47	-5.00	-6.06
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-7.70	-14.85	-16.73	-20.40
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.13	-0.29	-0.34	-0.42
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-2.56	-4.79	-5.36	-6.51
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.41	-2.80	-3.17	-3.88
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-8.88	-18.28	-20.84	-25.61
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.00	-1.98	-2.24	-2.74
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-0.37	-0.69	-0.78	-0.94
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-72.57	-140.10	-157.88	-192.55
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-72.63	-140.22	-158.01	-192.71
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	-54.95	-103.07	-115.52	-140.37
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-4.10	-7.61	-8.51	-10.33
Hancock County (Part) The city of Weirton, including Butler and Clay: Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-8.66	-16.03	-17.92	-21.74
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-27.15	-54.15	-61.39	-75.16

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-50.72	-97.94	-110.37	-134.60
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.20	-0.40	-0.45	-0.55
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.12	-0.23	-0.26	-0.32
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.11	-0.23	-0.26	-0.31
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.93	-1.80	-2.02	-2.46
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.22	-0.42	-0.47	-0.57
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-517.80	-983.34	-1,104.68	-1,344.42
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-506.27	-961.30	-1,079.89	-1,314.23
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.70	-3.27	-3.68	-4.49
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-2.76	-5.23	-5.87	-7.14
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-8.39	-16.57	-18.75	-22.93
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-8.39	-16.56	-18.74	-22.92
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-6.18	-12.32	-13.97	-17.10
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-6.18	-12.32	-13.97	-17.10
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-8.26	-16.31	-18.46	-22.57
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.47	-4.71	-5.29	-6.44
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-15.44	-28.82	-32.27	-39.18
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.07	-0.07	-0.09
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-10.56	-21.48	-24.43	-29.98
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.57	-1.09	-1.22	-1.49
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.33	-2.64	-2.99	-3.66
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-4.78	-9.46	-10.71	-13.10
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-11.91	-22.49	-25.23	-30.69
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.02	-0.04	-0.05	-0.06
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-2.52	-4.91	-5.54	-6.76
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-2.77	-5.30	-5.97	-7.27
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.81	-1.52	-1.70	-2.06
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-8.62	-16.37	-18.39	-22.38

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.00	-1.97	-2.23	-2.73
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.75	-1.41	-1.58	-1.92
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-10.08	-19.01	-21.32	-25.92
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-10.08	-19.01	-21.32	-25.92
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.59	-1.17	-1.33	-1.62
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.44	-0.86	-0.97	-1.19
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.73	-3.42	-3.88	-4.74
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.73	-3.42	-3.87	-4.74
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-1.98	-3.92	-4.44	-5.43
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-27.23	-53.45	-60.41	-73.83
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-33.82	-66.33	-74.96	-91.59
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-2.48	-4.79	-5.40	-6.58
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.23	-0.45	-0.51	-0.62
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-3.87	-8.07	-9.22	-11.34
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-23.52	-44.95	-50.55	-61.57
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.61	-1.28	-1.47	-1.80
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-15.38	-29.31	-32.95	-40.12
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.54	-1.01	-1.13	-1.37
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.28	-0.52	-0.58	-0.70
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	-0.85	-1.64	-1.85	-2.25
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.48	-0.95	-1.07	-1.31
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.54	-1.12	-1.28	-1.58
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-20.75	-40.12	-45.22	-55.16
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-20.75	-40.11	-45.21	-55.15
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.07	-0.13	-0.15	-0.18
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-8.06	-15.76	-17.81	-21.75
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	-67.87	-134.67	-152.53	-186.63

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-67.82	-134.56	-152.40	-186.47
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.97	-1.93	-2.19	-2.68
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-6.60	-12.19	-13.63	-16.52
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-6.79	-13.01	-14.64	-17.83
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-8.13	-15.58	-17.54	-21.37
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-1.01	-1.92	-2.16	-2.63
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.72	-1.34	-1.50	-1.83
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-3.49	-6.81	-7.69	-9.39
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-26.69	-49.65	-55.55	-67.43
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.87	-1.81	-2.07	-2.54
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-201.48	-436.21	-501.49	-619.62
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-23.19	-46.65	-52.97	-64.91
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-23.19	-46.65	-52.96	-64.91
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	-201.08	-435.49	-500.70	-618.66
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	-201.07	-435.47	-500.67	-618.63
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-201.54	-436.33	-501.63	-619.79
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-201.43	-436.08	-501.35	-619.44
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-201.48	-436.21	-501.49	-619.62
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-26.24	-53.54	-60.94	-74.80
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-4.23	-8.22	-9.27	-11.31
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-15.30	-29.46	-33.19	-40.46
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-8.36	-15.61	-17.48	-21.23
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	-0.93	-2.12	-2.45	-3.04
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.89	-1.87	-2.14	-2.64
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-83.59	-169.82	-193.14	-236.98
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-9.54	-19.40	-22.07	-27.08

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.54	-1.06	-1.20	-1.46
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.54	-1.06	-1.20	-1.46
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-8.30	-15.39	-17.21	-20.89
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-2.57	-5.09	-5.76	-7.05
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-45.68	-88.19	-99.38	-121.20
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-65.96	-126.84	-142.83	-174.11
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.79	-1.51	-1.70	-2.08
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.81	-1.55	-1.75	-2.13
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.80	-1.54	-1.73	-2.11
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-35.81	-71.14	-80.60	-98.63
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-89.44	-177.43	-200.94	-245.86
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-23.63	-43.91	-49.12	-59.62
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-23.77	-44.16	-49.41	-59.96
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-5.18	-10.48	-11.91	-14.61
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-3.02	-5.79	-6.52	-7.95
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.24	-0.52	-0.60	-0.74
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.23	-0.44	-0.50	-0.60
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.53	-1.11	-1.27	-1.56
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.17	-0.33	-0.37	-0.45
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.18	-0.33	-0.38	-0.46
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.36	-0.75	-0.85	-1.05
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.56	-1.09	-1.23	-1.50
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.09	-2.12	-2.39	-2.92
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-7.87	-15.09	-16.98	-20.69
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.82	-1.53	-1.71	-2.08
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	-0.76	-1.71	-1.98	-2.45

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.20	-0.41	-0.46	-0.57
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-1.31	-2.80	-3.22	-3.97
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-1.32	-2.82	-3.24	-4.00
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.32	-2.52	-2.84	-3.45
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	-50.29	-96.15	-108.16	-131.74
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-2.28	-4.22	-4.72	-5.73
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-18.95	-36.17	-40.67	-49.53
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-483.41	-942.62	-1,064.19	-1,299.41
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-283.00	-549.36	-619.69	-756.25
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-474.10	-924.60	-1,043.87	-1,274.63
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	-473.85	-924.11	-1,043.32	-1,273.94
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.39	-0.85	-0.98	-1.20
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-1.55	-2.97	-3.34	-4.07
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-38.82	-77.27	-87.56	-107.17
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-62.80	-121.74	-137.29	-167.52
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.12	-0.24	-0.28	-0.34
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.82	-3.59	-4.06	-4.96
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.82	-3.59	-4.06	-4.96
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.32	-2.56	-2.88	-3.52
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-4.57	-8.83	-9.95	-12.14
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-1.15	-2.12	-2.37	-2.88
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.15	-2.12	-2.37	-2.88
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.74	-1.52	-1.73	-2.13
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.03	-0.03
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.10	-0.19	-0.22	-0.26



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Peoria County: Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.79	-3.66	-4.17	-5.12
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-3.39	-6.46	-7.27	-8.85
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-40.19	-78.14	-88.17	-107.62
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	-142.98	-281.19	-317.96	-388.64
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-176.78	-349.87	-396.07	-484.48
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-176.71	-349.73	-395.91	-484.28
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	-80.77	-164.08	-186.61	-228.96
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-84.07	-170.78	-194.24	-238.32
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-86.17	-175.07	-199.11	-244.31
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.66	-1.23	-1.38	-1.68
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-1.09	-2.21	-2.51	-3.07
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.00	-1.93	-2.17	-2.65
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-5.66	-11.54	-13.13	-16.12
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-3.98	-7.46	-8.36	-10.16
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	-9.00	-17.49	-19.74	-24.09
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-104.43	-200.29	-225.43	-274.69
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-95.41	-182.97	-205.93	-250.94
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.31	-0.61	-0.69	-0.84
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.22	-2.34	-2.64	-3.21
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-28.43	-57.52	-65.37	-80.16
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.11	-0.21	-0.24	-0.29
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-10.72	-20.05	-22.46	-27.28
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-2.31	-4.65	-5.28	-6.47
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-12.13	-24.35	-27.64	-33.87
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.22	-0.44	-0.50	-0.61

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-46.63	-93.64	-106.29	-130.24
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.09	-3.87	-4.33	-5.25
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-12.56	-24.55	-27.73	-33.87
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-2.64	-5.94	-6.87	-8.53
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-2.64	-4.98	-5.58	-6.78
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-5.70	-12.43	-14.31	-17.69
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-5.70	-12.43	-14.31	-17.69
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-6.36	-13.98	-16.11	-19.93
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-200.91	-434.85	-499.91	-617.65
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.22	-0.42	-0.47	-0.57
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-9.43	-17.56	-19.66	-23.86
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-6.83	-12.63	-14.11	-17.12
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-20.69	-43.67	-49.99	-61.59
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-27.82	-56.46	-64.20	-78.77
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-49.45	-100.06	-113.72	-139.47
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-49.45	-100.05	-113.71	-139.46
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-48.48	-98.08	-111.46	-136.70
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-7.58	-14.91	-16.86	-20.61
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	-8.70	-16.73	-18.84	-22.96
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-65.59	-127.22	-143.48	-175.09
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-36.69	-71.43	-80.62	-98.43
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-36.74	-71.53	-80.73	-98.56
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-64.37	-126.25	-142.68	-174.35
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-19.19	-37.94	-42.94	-52.52
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-89.91	-179.71	-203.81	-249.59
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-90.57	-180.98	-205.24	-251.34

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	-90.30	-180.44	-204.62	-250.58
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-121.24	-252.85	-288.88	-355.49
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-121.06	-252.47	-288.46	-354.97
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-122.15	-254.77	-291.08	-358.21
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-111.66	-232.85	-266.04	-327.38
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-90.85	-182.39	-207.01	-253.65
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-90.85	-182.39	-207.01	-253.65
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-91.38	-183.39	-208.12	-254.99
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-90.36	-181.49	-206.00	-252.42
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-90.36	-181.49	-206.00	-252.42
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.36	-4.38	-4.90	-5.94
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-2.36	-4.38	-4.90	-5.94
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.23	-0.46	-0.53	-0.65
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-4.81	-8.93	-9.99	-12.12
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.19	-0.35	-0.39	-0.47
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-1.58	-3.02	-3.40	-4.15
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-6.34	-12.76	-14.48	-17.75
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-119.72	-232.81	-262.70	-320.66
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-36.70	-69.73	-78.34	-95.35
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-2.32	-4.52	-5.11	-6.24
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-2.24	-4.37	-4.94	-6.03
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.32	-4.52	-5.11	-6.24
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.15	-2.20	-2.47	-3.01
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.88	-3.56	-4.00	-4.86
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.97	-5.60	-6.29	-7.65
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.43	-0.84	-0.95	-1.16
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-12.13	-24.35	-27.64	-33.86
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-1.11	-2.08	-2.33	-2.83

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	-12.74	-24.78	-27.96	-34.12
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-12.98	-25.24	-28.48	-34.77
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-4.05	-7.99	-9.04	-11.05
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-15.91	-29.50	-32.98	-40.02
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-2.74	-5.26	-5.92	-7.21
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	-23.53	-46.11	-52.11	-63.67
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-94.05	-183.26	-206.87	-252.57
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-95.75	-186.92	-211.07	-257.76
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-6.99	-13.11	-14.69	-17.85
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-14.36	-26.93	-30.18	-36.67
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-5.55	-11.53	-13.16	-16.19
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.14	-2.19	-2.47	-3.01
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.29	-0.54	-0.60	-0.73
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-13.63	-26.79	-30.29	-37.02
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.37	-0.76	-0.87	-1.07
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-3.35	-6.45	-7.26	-8.85
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.62	-3.37	-3.85	-4.74
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.22	-0.41	-0.46	-0.56
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.05	-0.10	-0.12	-0.14
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.35	-0.65	-0.73	-0.89
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-1.36	-2.85	-3.25	-4.01
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-1.82	-3.38	-3.78	-4.58
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	-18.03	-36.42	-41.38	-50.74
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.37	-2.77	-3.15	-3.86
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.08	-0.14	-0.16	-0.19
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.41	-2.63	-2.95	-3.58
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.02	-0.03

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.13	-0.29	-0.33	-0.41
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-8.32	-15.38	-17.19	-20.84
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-11.08	-20.49	-22.90	-27.78
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-2.96	-5.49	-6.14	-7.44
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.05	-0.09	-0.10	-0.12
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.87	-3.46	-3.86	-4.68
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	-0.08	-0.14	-0.16	-0.19
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-28.21	-52.31	-58.50	-70.98
Union County; LaGrande, OR	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-0.53	-1.05	-1.19	-1.45
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-16.51	-30.59	-34.20	-41.49
Utah County, UT	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-22.63	-43.75	-49.31	-60.15
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-5.27	-10.92	-12.47	-15.33
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-16.83	-34.37	-39.13	-48.04
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-16.82	-34.35	-39.10	-48.01
Vermillion County; Part of Clinton Township, IN	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-0.90	-1.71	-1.92	-2.34
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-7.80	-14.92	-16.78	-20.45
Walla Walla County; Wallula, WA	PM <sub>10</sub> (1987 24-hour)	Maintenance, Serious	100	0	-0.49	-0.92	-1.03	-1.26
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-2.36	-4.57	-5.16	-6.30
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-5.95	-11.00	-12.29	-14.90
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-9.62	-17.80	-19.90	-24.14
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-10.91	-20.20	-22.58	-27.39
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-11.16	-23.26	-26.57	-32.69
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	-122.27	-246.28	-279.68	-342.81
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-122.33	-246.39	-279.81	-342.97
Washoe County; Reno planning area, NV	PM <sub>10</sub> (1987 24-hour)	Maintenance, Serious	100	0	-2.62	-5.92	-6.85	-8.50

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-2.63	-5.11	-5.77	-7.04
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.44	-4.70	-5.29	-6.45
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-1.14	-2.32	-2.63	-3.23
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-1.01	-1.90	-2.14	-2.60
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-7.55	-16.01	-18.35	-22.62
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-5.45	-10.89	-12.35	-15.12
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	-2.28	-4.34	-4.87	-5.93
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-7.75	-14.72	-16.54	-20.13
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-4.48	-8.92	-10.11	-12.37
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-8.07	-15.59	-17.58	-21.44
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-4.29	-8.28	-9.33	-11.38

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-13. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Carbon Monoxide (CO), 2025**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	10.35	12.75	18.04	24.87
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	45.76	57.42	81.91	112.98
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	17.22	21.21	29.99	41.34
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	1.98	2.45	3.48	4.80
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.12	0.15	0.22	0.30
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	1.87	2.37	3.39	4.68
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	24.07	30.10	42.87	59.12
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.20	0.31	0.49	0.68
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	1.39	2.17	3.38	4.69
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	15.25	18.86	26.72	36.84
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	17.70	21.86	30.94	42.66
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.83	-1.56	-1.72	-2.33
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	1.18	1.47	2.10	2.89
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	3.05	3.84	5.49	7.58
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.13	0.18	0.27	0.38
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	29.13	35.88	50.72	69.92
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	1.32	1.62	2.28	3.15
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	4.89	6.08	8.63	11.90
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	87.15	107.74	152.60	210.39
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.09	0.18	0.29	0.41

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	5.00	6.14	8.66	11.94
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	1.50	1.85	2.60	3.59
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	19.71	24.19	34.15	47.07
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	15.33	18.83	26.59	36.65
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.35	-1.79	-1.78	-2.39
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.71	-0.56	-0.58	-0.78
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.26	0.33	0.48	0.66
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	177.55	218.14	308.04	424.61
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	133.86	164.51	232.35	320.28
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	1.12	1.38	1.94	2.68
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	12.08	14.91	21.10	29.10
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.24	0.32	0.47	0.65
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	76.41	94.19	133.22	183.65
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	77.08	95.01	134.37	185.24
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	13.76	20.70	31.83	44.12
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.34	0.42	0.60	0.83
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.72	0.88	1.24	1.71
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	5.91	7.31	10.35	14.27
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.95	1.64	2.64	3.67
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-1.24	-1.05	-1.15	-1.56
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	36.54	45.44	64.54	89.00
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	10.34	12.75	18.03	24.86
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.37	0.46	0.65	0.89
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	21.93	26.95	38.06	52.47



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.92	-0.76	-0.82	-1.11
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.24	-0.18	-0.19	-0.25
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.25	0.31	0.44	0.61
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	5.53	6.82	9.65	13.30
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	1.28	1.57	2.23	3.07
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	1.28	1.57	2.23	3.07
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.82	1.04	1.49	2.05
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	9.83	12.27	17.46	24.08
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	5.26	6.46	9.12	12.57
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.35	0.43	0.60	0.83
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	6.27	8.27	12.06	16.66
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	47.24	58.00	81.88	112.86
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	87.73	107.75	152.12	209.69
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	188.52	235.69	335.63	462.91
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	192.30	240.34	342.20	471.96
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	5.53	6.82	9.65	13.30
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	2.18	2.68	3.79	5.22
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	5.41	6.67	9.44	13.01
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	64.11	78.86	111.42	153.59
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	66.66	81.99	115.85	159.69
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	69.87	85.78	121.09	166.91
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	27.74	34.13	48.22	66.47
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	74.61	91.86	129.85	179.00
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	36.03	44.33	62.65	86.36
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	77.48	95.50	135.07	186.21
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	71.95	88.58	125.22	172.62

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.68	0.84	1.18	1.63
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	16.13	20.00	28.36	39.11
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	56.19	69.17	97.75	134.76
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	52.10	64.10	90.57	124.86
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	1.35	1.85	2.73	3.78
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-6.84	-4.91	-4.53	-6.02
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.02	0.03	0.05
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.21	-0.17	-0.18	-0.24
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	22.02	27.07	38.22	52.69
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	27.75	34.14	48.24	66.50
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	235.06	290.08	410.52	565.95
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	231.64	285.88	404.58	557.77
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	7.11	10.04	15.07	20.85
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	106.01	132.31	188.24	259.61
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	80.03	100.19	142.75	196.89
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	106.01	132.31	188.24	259.61
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	44.21	54.47	77.02	106.17
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	127.86	157.89	223.52	308.15
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	5.86	7.30	10.37	14.31
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	128.21	158.33	224.13	308.99
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.24	0.35	0.53	0.73
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.02	0.07	0.14	0.20
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.52	0.64	0.90	1.24
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.01
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.56	0.69	0.98	1.35
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.24	0.29	0.41	0.56

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	2.44	3.09	4.43	6.12
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	-8.49	-7.09	-7.72	-10.43
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.02	0.03	0.04	0.06
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.70	0.94	1.39	1.92
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	15.20	18.73	26.49	36.52
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.75	0.98	1.41	1.95
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	6.55	8.03	11.34	15.63
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.01
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.30	0.39	0.56	0.77
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.70	0.88	1.25	1.72
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.11	0.14	0.20	0.27
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	1.04	1.28	1.81	2.49
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.21	0.26	0.36	0.50
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	4.62	5.70	8.06	11.11
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.40	0.50	0.70	0.96
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.04	0.12	0.29	0.42
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	1.47	1.81	2.56	3.53
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	13.94	17.16	24.26	33.44
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.99	1.22	1.72	2.37
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-0.09	-0.06	-0.04	-0.06
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	45.51	55.93	78.99	108.88
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	45.54	55.97	79.04	108.96
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	8.13	11.40	17.06	23.60
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.13	0.01	0.13	0.19
Hancock County (Part) The city of Weirton, including Butler and Clay: Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.45	-0.27	-0.18	-0.23
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	29.72	36.61	51.77	71.37

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	31.97	39.26	55.42	76.39
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.17	0.21	0.30	0.41
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.11	0.13	0.19	0.26
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.11	0.13	0.19	0.26
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.43	0.56	0.82	1.13
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.08	-0.05	-0.04	-0.05
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	174.74	224.89	324.60	448.08
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	169.47	218.34	315.28	435.22
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	1.02	1.25	1.76	2.42
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	1.00	1.23	1.73	2.39
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	7.98	9.83	13.91	19.17
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	7.98	9.83	13.90	19.17
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	6.77	8.30	11.72	16.15
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	6.77	8.30	11.72	16.15
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	7.83	9.65	13.65	18.82
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.88	1.16	1.69	2.34
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.66	0.29	1.16	1.67
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.05	0.06	0.08	0.11
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	14.84	18.22	25.72	35.45
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.23	0.29	0.42	0.58
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	1.28	1.60	2.28	3.15
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	4.74	5.82	8.22	11.33
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	3.14	4.07	5.89	8.13
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.02	0.03	0.04	0.06
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	1.85	2.28	3.22	4.43
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.94	1.32	1.98	2.74
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.15	-0.08	-0.04	-0.05
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	1.40	2.45	3.97	5.52
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.99	1.21	1.71	2.36

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.23	0.28	0.40	0.55
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.62	0.54	1.66	2.38
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.62	0.54	1.66	2.38
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.56	0.69	0.97	1.34
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.41	0.50	0.71	0.98
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	1.75	2.15	3.03	4.18
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	1.75	2.15	3.03	4.18
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	2.00	2.46	3.48	4.79
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	23.16	28.65	40.59	55.96
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	28.30	35.01	49.61	68.40
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	1.59	1.96	2.77	3.82
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.19	0.23	0.33	0.45
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	6.92	8.50	12.01	16.55
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	1.87	5.80	10.61	14.84
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	1.12	1.37	1.94	2.67
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.61	0.30	2.83	4.12
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.04	0.05	0.07	0.10
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.02	0.03	0.04	0.05
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	0.46	0.57	0.80	1.10
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.41	0.51	0.73	1.00
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.94	1.16	1.63	2.25
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	13.31	16.38	23.15	31.91
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	13.31	16.38	23.15	31.92
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.06	0.07	0.10	0.13
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	6.55	8.04	11.34	15.63
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	69.93	85.85	121.19	167.05
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	69.87	85.78	121.09	166.91

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	1.01	1.25	1.77	2.44
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-1.20	-1.00	-1.08	-1.46
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	3.48	4.29	6.06	8.35
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	2.57	3.79	5.79	8.02
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.20	0.31	0.49	0.68
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.14	0.17	0.24	0.33
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	2.71	3.33	4.70	6.47
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.12	1.08	2.17	3.05
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	1.39	1.73	2.46	3.39
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	477.47	587.67	830.58	1,144.97
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	25.21	32.27	46.47	64.13
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	25.21	32.27	46.46	64.12
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	477.73	587.96	830.97	1,145.50
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	477.70	587.92	830.90	1,145.41
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	477.58	587.80	830.77	1,145.22
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	477.30	587.46	830.28	1,144.56
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	477.47	587.67	830.58	1,144.97
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	38.06	46.73	65.97	90.93
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	2.95	3.63	5.12	7.06
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	7.20	9.54	13.95	19.27
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.67	-0.11	0.34	0.51
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	2.93	3.60	5.08	7.01
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	1.67	2.05	2.89	3.98

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	115.94	142.30	200.84	276.84
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	13.36	16.41	23.16	31.92
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.47	0.59	0.83	1.14
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.47	0.59	0.83	1.14
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.03	0.19	0.38	0.53
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	2.55	3.13	4.42	6.09
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	28.53	35.08	49.55	68.31
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	37.46	46.07	65.10	89.74
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.45	0.55	0.77	1.07
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.46	0.56	0.79	1.09
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.45	0.55	0.78	1.08
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	37.19	45.84	64.83	89.37
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	89.95	111.19	157.47	217.10
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	1.95	2.42	3.43	4.73
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	1.96	2.43	3.45	4.76
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	6.83	8.38	11.83	16.31
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	1.60	1.97	2.79	3.85
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.50	0.63	0.89	1.23
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.07	0.09	0.13	0.18
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.95	1.16	1.64	2.26
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.04	0.06	0.10	0.13
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.05	0.07	0.10	0.14
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.58	0.72	1.01	1.39
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.39	0.49	0.70	0.96
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.79	0.98	1.38	1.91

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	4.16	5.12	7.24	9.98
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.08	0.12	0.19	0.26
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	2.29	2.81	3.98	5.48
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.24	0.30	0.42	0.58
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	2.86	3.53	5.00	6.89
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	2.88	3.55	5.02	6.92
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.65	0.80	1.13	1.55
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	24.53	30.11	42.50	58.58
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.08	-0.02	0.02	0.03
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	8.73	10.72	15.14	20.86
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	373.49	458.70	647.62	892.69
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	200.04	245.70	346.90	478.18
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	367.26	451.09	636.89	877.91
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	367.04	450.81	636.50	877.36
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.93	1.14	1.61	2.22
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.83	1.02	1.44	1.98
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	41.45	51.02	72.11	99.40
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	42.02	52.01	73.71	101.63
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.10	0.12	0.17	0.24
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	1.72	2.12	2.99	4.12
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	1.72	2.12	2.99	4.12
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.78	0.99	1.41	1.95
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	2.84	3.54	5.03	6.93
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.07	-0.04	-0.03	-0.04
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.07	-0.04	-0.03	-0.04
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	1.17	1.44	2.04	2.81



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				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.10	-0.09	-0.09	-0.13
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.06	0.08	0.12	0.16
Peoria County: Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	2.62	3.22	4.55	6.28
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	1.49	1.84	2.62	3.61
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	26.95	33.98	48.58	67.02
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	124.46	154.34	218.93	301.88
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	171.38	211.96	300.27	413.99
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	171.29	211.84	300.11	413.77
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	112.02	137.48	194.04	267.47
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	116.62	143.12	202.00	278.44
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	119.57	146.75	207.12	285.49
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.08	0.12	0.19	0.26
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	1.42	1.74	2.46	3.39
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.57	0.69	0.98	1.35
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	8.18	10.04	14.18	19.54
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.09	0.24	0.57	0.81
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	6.31	7.82	11.09	15.29
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	50.44	63.88	91.52	126.27
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	45.99	58.24	83.44	115.13
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.21	0.26	0.37	0.51
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.64	0.78	1.10	1.52
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	37.46	46.04	65.01	89.62
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.02	0.03	0.04	0.05
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	1.92	2.36	3.33	4.59
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	2.93	3.60	5.08	7.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	14.40	17.77	25.15	34.68
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.28	0.35	0.49	0.68
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	56.31	69.21	97.75	134.75
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.22	-1.02	-1.10	-1.49
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	9.93	12.28	17.40	23.98
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	8.02	9.84	13.89	19.15
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.73	0.90	1.26	1.74
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	14.21	17.48	24.70	34.05
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	14.21	17.48	24.70	34.05
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	16.65	20.48	28.93	39.88
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	475.24	584.94	826.72	1,139.65
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.06	0.07	0.10	0.13
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.76	-0.24	0.15	0.25
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.05	-0.87	-0.94	-1.26
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	40.06	49.50	70.10	96.64
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	33.78	43.12	62.00	85.56
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	60.91	76.51	109.20	150.63
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	60.90	76.50	109.18	150.60
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	59.49	74.77	106.73	147.23
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	6.88	8.45	11.92	16.43
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	3.85	5.17	7.60	10.50
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	44.54	55.11	78.08	107.65
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	26.38	32.82	46.63	64.30
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	26.43	32.87	46.70	64.40
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	54.68	67.38	95.29	131.37
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	15.17	19.95	29.07	40.15

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	102.46	125.82	177.62	244.84
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	102.90	126.35	178.38	245.88
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	102.58	125.97	177.83	245.13
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	213.00	263.08	372.46	513.50
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	212.69	262.71	371.93	512.77
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	214.87	265.38	375.71	517.98
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	195.97	242.13	342.86	472.70
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	102.17	128.23	182.94	252.34
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	102.17	128.23	182.94	252.34
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	102.12	128.20	182.90	252.29
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	102.23	128.27	182.97	252.37
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	102.23	128.27	182.97	252.37
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.14	-0.05	0.01	0.02
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.14	-0.05	0.01	0.02
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.32	0.39	0.55	0.76
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.21	0.29	0.44	0.61
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.04	0.04	0.06	0.08
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.85	1.04	1.46	2.02
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	7.76	9.55	13.50	18.61
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	87.90	107.90	152.30	209.93
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	14.54	17.87	25.23	34.78
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	1.85	2.27	3.20	4.41
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	1.79	2.20	3.10	4.28
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	1.85	2.27	3.20	4.41
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.52	0.64	0.91	1.25
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.63	0.78	1.10	1.51
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.93	1.14	1.60	2.21

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.39	0.47	0.67	0.92
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	14.40	17.77	25.15	34.67
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.13	0.20	0.31	0.42
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	9.32	11.44	16.15	22.26
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	9.50	11.66	16.45	22.68
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	3.82	4.70	6.63	9.14
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-2.36	-1.73	-1.63	-2.17
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	1.35	1.69	2.41	3.32
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	17.95	22.80	32.71	45.13
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	69.27	85.97	121.99	168.21
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	73.20	90.79	128.80	177.59
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.73	1.20	1.90	2.63
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	2.41	3.20	4.69	6.48
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	9.62	11.81	16.68	22.99
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.21	0.44	0.74	1.04
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.01	-0.01	-0.01
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	12.18	14.95	21.10	29.09
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.58	0.71	1.01	1.39
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	1.93	2.38	3.37	4.64
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	2.87	3.53	4.98	6.86
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.01	0.01	0.02	0.02
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.08	0.11	0.16	0.22
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.17	-0.11	-0.08	-0.10
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	2.47	3.03	4.28	5.90
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.16	-0.11	-0.09	-0.12
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	23.46	28.79	40.64	56.01
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	1.72	2.13	3.01	4.14
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	-0.01

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.15	0.22	0.34	0.48
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.01	0.01	0.01
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.35	0.43	0.60	0.83
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.56	-0.47	-0.51	-0.69
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.93	-0.69	-0.67	-0.90
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.48	-0.37	-0.36	-0.49
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.02	0.02	0.03	0.04
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.68	-0.58	-0.64	-0.86
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	-0.01
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.83	-0.11	0.46	0.70
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.49	0.60	0.85	1.18
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-1.17	-0.73	-0.56	-0.72
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	13.55	17.07	24.39	33.65
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	8.96	11.00	15.53	21.41
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	21.04	27.19	39.31	54.26
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	21.01	27.15	39.25	54.19
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.37	0.47	0.67	0.92
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	3.71	4.63	6.59	9.09
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.10	0.13	0.18	0.25
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	1.65	2.03	2.87	3.96
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.27	-0.20	-0.19	-0.26
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.06	0.06	0.18	0.26
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.01	0.15	0.32	0.45
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	19.72	24.26	34.27	47.24
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	153.06	188.11	265.66	366.21
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	153.12	188.18	265.77	366.34

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	8.10	9.94	14.03	19.34
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	1.92	2.37	3.34	4.61
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	1.19	1.56	2.27	3.13
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	1.60	1.96	2.77	3.82
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.34	0.42	0.59	0.81
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	15.49	19.05	26.91	37.10
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	6.26	7.69	10.86	14.97
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	0.90	1.10	1.55	2.14
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	3.03	3.72	5.25	7.24
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	4.60	5.72	8.13	11.21
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	5.21	6.39	9.02	12.43
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	2.67	3.28	4.63	6.38

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-14. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Carbon Monoxide (CO), 2035**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-4.02	-17.73	-22.74	-31.73
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-36.75	-102.81	-122.94	-167.05
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-6.39	-29.09	-37.44	-52.32
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.99	-3.68	-4.61	-6.38
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.04	-0.20	-0.26	-0.36
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.91	-4.73	-5.50	-7.40
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-17.32	-51.50	-62.30	-85.04
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.40	-2.05	-2.00	-2.48
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-9.14	-13.47	-13.23	-16.43
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-7.06	-27.57	-34.83	-48.33
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-7.56	-31.18	-39.67	-55.19
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-12.47	-13.86	-11.59	-13.05
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.84	-2.51	-3.04	-4.16
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-2.81	-7.31	-8.61	-11.63
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.41	-0.69	-0.72	-0.92
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-10.68	-49.03	-63.19	-88.31
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.37	-2.08	-2.73	-3.84
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-2.85	-9.60	-11.86	-16.33
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-39.48	-156.46	-198.01	-274.95
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.21	-1.67	-1.59	-1.95

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.42	-7.88	-10.36	-14.57
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.43	-2.37	-3.11	-4.38
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-5.64	-31.14	-40.89	-57.53
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-4.62	-24.52	-32.07	-45.07
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-19.92	-22.84	-19.51	-22.29
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-5.60	-6.37	-5.41	-6.16
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.28	-0.68	-0.79	-1.05
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-54.78	-285.66	-373.03	-523.82
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-42.36	-216.73	-282.48	-396.41
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.32	-1.76	-2.32	-3.26
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-5.01	-21.13	-26.96	-37.54
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.61	-1.08	-1.14	-1.46
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	-29.37	-130.42	-167.41	-233.66
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-29.57	-131.48	-168.80	-235.60
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-75.64	-114.24	-113.48	-141.72
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.16	-0.62	-0.79	-1.09
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.20	-1.13	-1.49	-2.09
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.72	-10.67	-13.48	-18.71
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-9.16	-12.97	-12.50	-15.36
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-8.54	-9.52	-7.97	-8.99
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-21.52	-72.01	-88.91	-122.32
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	-4.02	-17.72	-22.72	-31.71
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.13	-0.61	-0.80	-1.11
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-6.99	-35.53	-46.28	-64.94



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-6.76	-7.59	-6.40	-7.24
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.93	-2.21	-1.88	-2.14
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.10	-0.44	-0.56	-0.78
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.23	-9.57	-12.23	-17.05
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.50	-2.19	-2.81	-3.92
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.50	-2.20	-2.81	-3.92
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.87	-2.11	-2.45	-3.29
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-6.63	-20.46	-24.92	-34.10
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-1.49	-8.29	-10.90	-15.34
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.10	-0.55	-0.72	-1.01
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-12.62	-23.86	-25.82	-33.61
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	-13.83	-75.04	-98.36	-138.31
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-26.30	-140.16	-183.41	-257.74
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-135.03	-402.46	-487.12	-665.06
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-136.20	-408.55	-495.08	-676.23
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-2.23	-9.57	-12.23	-17.05
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.67	-3.50	-4.58	-6.43
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-2.17	-9.35	-11.96	-16.67
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-21.47	-105.33	-136.70	-191.54
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-22.35	-109.54	-142.15	-199.18
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-20.38	-110.91	-145.42	-204.50
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-9.39	-45.71	-59.27	-83.03
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-26.61	-124.67	-161.00	-225.20
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-12.46	-59.70	-77.28	-108.19
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-29.79	-132.24	-169.75	-236.91
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-25.82	-120.42	-155.44	-217.38

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.19	-1.08	-1.41	-1.99
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-8.38	-30.33	-37.91	-52.40
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-19.69	-93.44	-120.84	-169.12
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	-17.81	-86.06	-111.51	-156.16
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-3.92	-6.70	-6.99	-8.95
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-63.74	-73.94	-63.63	-73.08
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.10	-0.14	-0.14	-0.17
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.57	-1.77	-1.50	-1.70
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-6.92	-35.59	-46.41	-65.15
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-9.40	-45.72	-59.29	-83.05
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-96.76	-409.44	-522.55	-727.81
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-95.79	-404.04	-515.46	-717.83
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-26.73	-43.09	-44.00	-55.72
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-71.46	-220.54	-268.62	-367.64
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-59.68	-173.88	-209.57	-285.65
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-71.46	-220.54	-268.62	-367.64
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	-16.51	-74.83	-96.28	-134.49
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-54.58	-225.22	-286.54	-398.64
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-3.68	-11.84	-14.53	-19.94
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-54.68	-225.78	-287.28	-399.68
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.07	-1.67	-1.68	-2.12
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-1.01	-1.32	-1.22	-1.47
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	-0.15	-0.82	-1.08	-1.51
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	-0.01
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.16	-0.89	-1.17	-1.64
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.07	-0.37	-0.49	-0.69

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-2.48	-6.16	-7.18	-9.65
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	-60.24	-67.43	-56.63	-63.99
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.04	-0.05	-0.07
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-1.79	-3.14	-3.32	-4.27
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-5.81	-25.91	-33.28	-46.45
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.24	-2.51	-2.77	-3.65
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-1.85	-10.31	-13.55	-19.06
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.05	-0.06	-0.05	-0.06
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.39	-0.87	-0.98	-1.31
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.50	-1.50	-1.81	-2.47
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.18	-0.23	-0.33
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.30	-1.64	-2.16	-3.04
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.06	-0.33	-0.44	-0.61
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.79	-7.89	-10.12	-14.12
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.11	-0.64	-0.84	-1.18
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-3.25	-4.15	-3.78	-4.51
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.57	-2.51	-3.22	-4.49
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-4.94	-23.25	-30.04	-42.03
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.28	-1.56	-2.05	-2.89
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-1.02	-1.21	-1.05	-1.21
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-14.34	-73.60	-95.96	-134.69
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-14.35	-73.65	-96.03	-134.78
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	-28.89	-47.12	-48.34	-61.36
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-3.13	-3.88	-3.49	-4.11
Hancock County (Part) The city of Weirton, including Butler and Clay: Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-5.32	-6.32	-5.52	-6.40
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-11.02	-50.21	-64.64	-90.31

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-9.52	-50.99	-66.76	-93.84
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.05	-0.27	-0.36	-0.50
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.03	-0.17	-0.23	-0.32
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.03	-0.17	-0.23	-0.32
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.76	-1.50	-1.64	-2.15
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.97	-1.15	-1.01	-1.17
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-246.23	-529.21	-594.92	-787.90
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-242.84	-518.47	-581.78	-769.88
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.29	-1.60	-2.10	-2.96
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.29	-1.59	-2.08	-2.93
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-3.02	-13.56	-17.43	-24.33
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-3.02	-13.55	-17.42	-24.32
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-1.93	-10.71	-14.08	-19.81
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-1.93	-10.71	-14.08	-19.81
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-2.98	-13.33	-17.12	-23.90
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.84	-3.44	-3.71	-4.82
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-20.41	-25.53	-23.03	-27.25
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.07	-0.09	-0.13
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-4.29	-23.49	-30.82	-43.36
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.23	-0.57	-0.67	-0.90
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.94	-2.76	-3.33	-4.54
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.34	-7.47	-9.82	-13.82
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-4.99	-10.23	-11.35	-14.95
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.04	-0.05	-0.07
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.56	-2.97	-3.88	-5.46
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-3.43	-5.57	-5.70	-7.22
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.96	-2.34	-2.06	-2.39
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-14.23	-20.06	-19.29	-23.68

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.28	-1.56	-2.04	-2.88
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.07	-0.36	-0.48	-0.67
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-24.44	-30.76	-27.85	-33.02
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-24.44	-30.76	-27.85	-33.02
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.16	-0.88	-1.16	-1.63
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.12	-0.65	-0.85	-1.19
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.52	-2.79	-3.65	-5.13
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate ≤ 12.7ppm	100	0	-0.52	-2.79	-3.65	-5.13
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.60	-3.20	-4.18	-5.88
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-10.80	-41.97	-52.98	-73.50
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-13.37	-51.51	-64.94	-90.05
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.60	-2.70	-3.48	-4.85
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.30	-0.39	-0.55
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-2.17	-11.18	-14.58	-20.46
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-66.57	-88.14	-82.10	-98.99
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.34	-1.80	-2.35	-3.30
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-65.14	-80.86	-72.63	-85.70
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.07	-0.09	-0.12
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.03	-0.04	-0.06
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	-0.17	-0.78	-1.00	-1.40
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.19	-0.75	-0.95	-1.31
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate ≤ 12.7ppm	100	0	-0.33	-1.56	-2.02	-2.82
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-4.69	-22.16	-28.65	-40.08
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-4.69	-22.16	-28.65	-40.09
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.02	-0.09	-0.11	-0.16
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.85	-10.31	-13.55	-19.07
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	-20.39	-111.00	-145.54	-204.67

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-20.38	-110.91	-145.42	-204.50
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.51	-1.88	-2.35	-3.26
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-8.55	-9.58	-8.05	-9.10
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-1.29	-5.88	-7.57	-10.57
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-12.74	-19.54	-19.54	-24.49
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-1.40	-2.05	-2.00	-2.48
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.22	-0.29	-0.40
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.77	-4.27	-5.61	-7.90
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate ≤ 12.7ppm	100	0	-17.58	-22.83	-21.04	-25.22
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.88	-2.82	-3.45	-4.74
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-167.18	-793.82	-1,026.69	-1,436.83
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-32.22	-72.08	-81.90	-108.97
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-32.22	-72.07	-81.89	-108.96
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	-166.58	-793.37	-1,026.44	-1,436.65
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	-166.57	-793.32	-1,026.37	-1,436.55
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-167.21	-793.99	-1,026.91	-1,437.14
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-167.13	-793.55	-1,026.33	-1,436.33
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-167.18	-793.82	-1,026.69	-1,436.83
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-11.23	-60.57	-79.35	-111.55
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.96	-4.81	-6.26	-8.77
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-15.27	-28.42	-30.58	-39.72
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-13.32	-16.37	-14.61	-17.17
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	-0.83	-4.62	-6.08	-8.55
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.47	-2.63	-3.45	-4.86
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-32.98	-182.97	-240.33	-338.18
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-3.89	-21.20	-27.80	-39.10

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.20	-0.84	-1.06	-1.48
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.20	-0.84	-1.06	-1.48
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-2.91	-3.79	-3.50	-4.20
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.72	-4.02	-5.28	-7.44
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-9.36	-46.61	-60.59	-84.95
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-12.60	-61.61	-79.93	-111.98
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.13	-0.70	-0.93	-1.30
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.13	-0.72	-0.94	-1.33
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.13	-0.71	-0.93	-1.31
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-14.18	-63.33	-81.34	-113.56
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-40.38	-161.01	-203.94	-283.27
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.05	-3.71	-4.62	-6.38
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.06	-3.73	-4.65	-6.42
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.95	-10.79	-14.16	-19.93
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.67	-2.80	-3.57	-4.97
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.30	-0.99	-1.23	-1.69
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.18	-0.31	-0.32	-0.42
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.27	-1.49	-1.96	-2.76
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.19	-0.30	-0.30	-0.38
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.19	-0.30	-0.31	-0.39
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.17	-0.92	-1.21	-1.70
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.26	-0.81	-0.99	-1.36
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.37	-1.44	-1.81	-2.51
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.40	-6.85	-8.89	-12.45
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.51	-0.75	-0.74	-0.92
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	-0.77	-3.76	-4.88	-6.83

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.07	-0.38	-0.50	-0.70
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-1.16	-4.97	-6.35	-8.84
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-1.17	-4.99	-6.37	-8.88
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.18	-1.03	-1.35	-1.90
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	-6.94	-38.67	-50.80	-71.50
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.43	-1.75	-1.55	-1.82
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-2.65	-13.99	-18.29	-25.69
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-112.08	-596.82	-780.93	-1,097.41
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-60.41	-320.14	-418.72	-588.31
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-110.83	-587.66	-768.64	-1,079.99
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	-110.76	-587.30	-768.17	-1,079.32
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.27	-1.47	-1.93	-2.72
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.23	-1.31	-1.72	-2.42
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-14.55	-68.96	-89.17	-124.78
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-20.20	-76.94	-96.85	-134.22
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.03	-0.16	-0.21	-0.29
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.49	-2.72	-3.57	-5.02
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.49	-2.72	-3.57	-5.02
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.73	-1.89	-2.22	-2.99
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.72	-5.66	-6.96	-9.57
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.74	-0.87	-0.76	-0.88
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.74	-0.87	-0.76	-0.88
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.51	-2.07	-2.63	-3.65
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.75	-0.85	-0.71	-0.81
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.20	-0.32	-0.33	-0.42



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Peoria County; Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.94	-4.38	-5.66	-7.91
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.79	-2.82	-3.52	-4.86
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-24.68	-64.47	-76.01	-102.69
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	-65.42	-235.09	-293.48	-405.45
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-79.26	-309.75	-391.30	-542.98
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-79.23	-309.60	-391.10	-542.69
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	-31.87	-176.76	-232.17	-326.70
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-33.17	-184.02	-241.71	-340.12
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-34.02	-188.72	-247.88	-348.81
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.45	-0.67	-0.66	-0.83
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.40	-2.24	-2.94	-4.14
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.16	-0.89	-1.17	-1.65
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-2.32	-12.88	-16.92	-23.81
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-6.51	-8.28	-7.55	-8.99
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	-3.26	-11.84	-14.80	-20.46
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-51.44	-127.43	-148.47	-199.63
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-46.93	-116.22	-135.40	-182.05
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.08	-0.36	-0.46	-0.65
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.18	-1.00	-1.32	-1.85
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-11.71	-60.46	-78.88	-110.74
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.03	-0.04	-0.06
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.54	-3.03	-3.98	-5.60
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.82	-4.57	-6.01	-8.45
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-5.95	-25.11	-32.04	-44.62
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.18	-0.57	-0.69	-0.95

**Appendix B Air Quality Nonattainment Area Results**

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				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-17.86	-91.23	-118.89	-166.83
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-8.66	-9.70	-8.15	-9.21
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-4.51	-17.85	-22.58	-31.35
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-2.27	-12.64	-16.60	-23.36
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.21	-1.15	-1.51	-2.13
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-4.83	-23.44	-30.39	-42.57
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-4.83	-23.44	-30.39	-42.57
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-5.52	-27.29	-35.45	-49.69
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-166.55	-790.31	-1,022.08	-1,430.35
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.02	-0.09	-0.12	-0.17
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-12.97	-15.80	-14.04	-16.45
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-7.68	-8.63	-7.27	-8.23
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-17.78	-71.43	-90.57	-125.85
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-40.81	-93.55	-106.96	-142.70
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-50.41	-138.76	-165.39	-224.44
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-50.41	-138.75	-165.37	-224.41
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-49.98	-136.49	-162.42	-220.26
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-1.95	-10.84	-14.24	-20.04
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	-9.37	-16.74	-17.77	-22.94
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-20.91	-80.91	-102.08	-141.57
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-15.77	-52.30	-64.47	-88.65
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-15.79	-52.36	-64.56	-88.78
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-20.64	-92.84	-119.35	-166.67
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-29.38	-56.25	-61.10	-79.70
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-30.39	-163.28	-213.84	-300.59
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-30.52	-163.97	-214.74	-301.86

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	-30.43	-163.47	-214.09	-300.94
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-92.00	-376.60	-478.64	-665.65
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-91.91	-376.11	-478.01	-664.76
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-92.53	-379.55	-482.52	-671.11
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-86.26	-348.55	-442.25	-614.66
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-82.54	-230.19	-275.09	-373.69
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-82.54	-230.19	-275.09	-373.70
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-82.87	-230.57	-275.41	-374.06
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-81.88	-229.41	-274.41	-372.91
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-81.88	-229.41	-274.41	-372.91
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.22	-2.69	-2.38	-2.79
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-2.22	-2.69	-2.38	-2.79
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.09	-0.51	-0.67	-0.94
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.81	-1.30	-1.32	-1.67
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.06	-0.07	-0.10
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.24	-1.33	-1.75	-2.46
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-2.71	-12.90	-16.68	-23.35
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-25.30	-139.07	-182.51	-256.74
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-4.54	-23.47	-30.62	-42.98
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.53	-2.92	-3.83	-5.40
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.51	-2.83	-3.71	-5.22
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.53	-2.92	-3.83	-5.40
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.17	-0.86	-1.12	-1.56
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.18	-1.00	-1.31	-1.85
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.26	-1.46	-1.92	-2.70
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.11	-0.61	-0.80	-1.12
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-5.95	-25.11	-32.04	-44.62
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.73	-1.10	-1.09	-1.36

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	-2.68	-14.74	-19.35	-27.22
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.73	-15.02	-19.71	-27.73
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-1.13	-6.09	-7.98	-11.21
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-21.39	-24.74	-21.24	-24.36
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.03	-2.96	-3.56	-4.84
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	-19.51	-46.90	-54.27	-72.75
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-37.61	-132.39	-164.77	-227.36
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-38.72	-138.59	-172.91	-238.82
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-5.83	-8.40	-8.17	-10.10
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-5.30	-9.76	-10.46	-13.56
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-2.90	-15.38	-20.12	-28.27
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-3.49	-4.76	-4.50	-5.47
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.05	-0.05	-0.04	-0.05
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-3.57	-19.34	-25.35	-35.65
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.22	-0.99	-1.27	-1.77
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.73	-3.29	-4.22	-5.89
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.81	-4.52	-5.94	-8.37
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.06	-0.08	-0.08	-0.10
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.17	-0.32	-0.35	-0.45
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-1.82	-2.15	-1.87	-2.16
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.73	-3.93	-5.15	-7.24
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-1.55	-1.81	-1.56	-1.80
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	-6.64	-36.97	-48.58	-68.36
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.65	-2.92	-3.76	-5.25
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.03	-0.03	-0.03
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.84	-1.26	-1.25	-1.56
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.10	-0.55	-0.72	-1.02
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-3.99	-4.46	-3.74	-4.23
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-8.09	-9.32	-7.98	-9.13
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-4.08	-4.69	-4.00	-4.57
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.03	-0.04	-0.05
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-4.60	-5.12	-4.28	-4.82
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	-0.03	-0.03	-0.03	-0.03
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-16.81	-20.68	-18.47	-21.72
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.14	-0.77	-1.02	-1.43
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-12.80	-15.11	-13.14	-15.20
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-12.12	-32.04	-37.87	-51.22
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-2.65	-14.27	-18.69	-26.27
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-31.59	-66.23	-73.94	-97.63
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-31.58	-66.18	-73.88	-97.54
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.29	-0.83	-0.99	-1.35
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-2.49	-7.71	-9.40	-12.86
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.04	-0.18	-0.23	-0.32
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.59	-2.74	-3.54	-4.95
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-2.37	-2.73	-2.34	-2.68
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-2.60	-3.28	-2.97	-3.53
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-2.68	-3.47	-3.20	-3.83
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-6.53	-32.30	-41.96	-58.82
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	-48.27	-247.60	-322.81	-453.05
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-48.28	-247.69	-322.93	-453.22
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-2.29	-12.76	-16.77	-23.60

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.66	-3.18	-4.12	-5.76
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.20	-4.28	-4.67	-6.11
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.46	-2.54	-3.34	-4.70
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.10	-0.53	-0.70	-0.99
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-5.18	-25.44	-33.01	-46.26
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-1.86	-9.97	-13.05	-18.34
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	-0.25	-1.41	-1.85	-2.61
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.86	-4.77	-6.27	-8.83
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-2.78	-9.16	-11.28	-15.50
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-1.48	-8.21	-10.79	-15.18
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.76	-4.22	-5.54	-7.80

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

Table B-15. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Carbon Monoxide (CO), 2050

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-21.19	-73.76	-88.00	-114.52
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-113.74	-359.87	-422.25	-547.70
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-34.86	-121.90	-145.53	-189.42
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-4.28	-14.49	-17.20	-22.36
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.24	-0.86	-1.03	-1.34
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-5.07	-15.40	-17.93	-23.22
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-57.69	-185.68	-218.54	-283.65
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.82	-3.81	-4.05	-5.15
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-12.01	-25.49	-27.21	-34.59
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-32.37	-110.52	-131.42	-170.92
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-36.89	-127.12	-151.40	-196.96
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-10.32	-10.89	-8.09	-9.27
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.82	-9.08	-10.69	-13.88
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-7.96	-24.62	-28.77	-37.28
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.66	-1.61	-1.79	-2.29
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-58.82	-205.92	-245.88	-320.06
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-2.55	-9.12	-10.94	-14.24
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-11.01	-36.51	-43.20	-56.12
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-184.09	-630.04	-749.51	-974.89
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.44	-2.79	-2.89	-3.65

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-9.66	-34.61	-41.49	-54.04
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-2.90	-10.41	-12.47	-16.25
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-38.13	-136.53	-163.62	-213.12
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-29.90	-106.61	-127.68	-166.29
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-17.41	-21.06	-17.38	-20.63
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-4.82	-5.64	-4.54	-5.35
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.73	-2.19	-2.55	-3.30
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-347.68	-	-	-
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-263.24	-934.52	-	-
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-263.24	-934.52	1,118.41	1,456.43
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-347.68	1,237.04	1,481.00	1,928.75
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-2.16	-7.74	-9.28	-12.09
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-25.17	-87.05	-103.74	-134.98
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.04	-2.63	-2.95	-3.79
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	-155.83	-542.95	-647.82	-843.11
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-157.11	-547.53	-653.31	-850.26
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-103.10	-225.42	-242.77	-309.23
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.73	-2.49	-2.96	-3.85
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.39	-4.97	-5.95	-7.76
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-12.53	-42.80	-50.90	-66.20
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-11.31	-22.69	-23.80	-30.14
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-7.09	-7.57	-5.67	-6.52
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-82.48	-273.18	-323.17	-419.87
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	-21.18	-73.72	-87.94	-114.45
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.74	-2.61	-3.12	-4.06



**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-43.06	-152.76	-182.79	-238.04
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-5.70	-6.34	-4.91	-5.71
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.68	-1.99	-1.63	-1.92
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.52	-1.82	-2.17	-2.82
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-11.38	-39.46	-47.04	-61.21
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-2.62	-9.09	-10.85	-14.11
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.62	-9.10	-10.85	-14.12
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-2.26	-6.82	-7.93	-10.27
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-23.09	-75.03	-88.46	-114.86
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-10.16	-36.41	-43.65	-56.85
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.67	-2.40	-2.87	-3.74
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-23.66	-63.04	-71.42	-91.97
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	-91.71	-327.78	-392.71	-511.51
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-170.97	-609.83	-730.39	-951.28
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-451.18	-	-	-
						1,453.04	1,710.43	2,220.06
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-458.59	-	-	-
						1,479.43	1,742.02	2,261.20
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-11.38	-39.46	-47.05	-61.22
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-4.26	-15.18	-18.17	-23.67
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-11.13	-38.58	-46.00	-59.86
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-127.34	-449.73	-537.78	-700.21
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-132.42	-467.64	-559.18	-728.07
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-135.62	-484.89	-580.97	-756.73
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-55.22	-194.81	-232.91	-303.24
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-149.93	-526.35	-628.79	-818.54
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-71.98	-253.44	-302.91	-394.35

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-157.99	-550.48	-656.81	-854.81
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-144.74	-507.83	-606.60	-789.64
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-1.32	-4.72	-5.65	-7.36
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-35.21	-118.54	-140.63	-182.82
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-112.55	-395.78	-472.94	-615.69
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	-103.87	-366.11	-437.65	-569.80
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-6.39	-15.78	-17.56	-22.53
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-56.84	-71.82	-60.99	-73.02
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.13	-0.26	-0.28	-0.35
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.33	-1.51	-1.19	-1.39
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-43.25	-153.63	-183.88	-239.46
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-55.23	-194.87	-232.98	-303.34
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-486.14	-	-	-
						1,681.68	2,004.13	2,607.68
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-479.52	-	-	-
						1,657.98	1,975.72	2,570.68
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-40.09	-94.05	-103.28	-132.12
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-248.92	-808.90	-953.71	-
								1,238.28
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-194.01	-620.97	-730.15	-947.49
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-248.92	-808.90	-953.71	-
								1,238.28
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	-89.64	-313.24	-373.92	-486.69
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-266.51	-918.28	-	-
						1,093.63		1,422.79
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-13.47	-44.23	-52.24	-67.86
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-267.19	-920.72	-	-
						1,096.56		1,426.61
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.53	-3.48	-3.79	-4.84
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-1.10	-1.94	-1.94	-2.43

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	-1.00	-3.60	-4.31	-5.62
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	-0.01	-0.02	-0.02
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.09	-3.89	-4.66	-6.07
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.46	-1.63	-1.96	-2.55
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-6.62	-20.12	-23.43	-30.35
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	-50.43	-54.93	-41.90	-48.45
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.05	-0.17	-0.20	-0.27
East Kern County Area, CA	PM <sub>10</sub> (1987 24-hour)	Nonattainment, Serious	70	0	-3.00	-7.56	-8.45	-10.85
El Paso County, TX	PM <sub>10</sub> (1987 24-hour)	Nonattainment, Moderate	100	0	-31.01	-108.12	-129.02	-167.92
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-2.55	-7.06	-8.07	-10.41
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-12.62	-45.23	-54.21	-70.61
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.05	-0.06	-0.05	-0.06
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.91	-2.64	-3.05	-3.94
Fairbanks, AK	PM <sub>2.5</sub> (2006 24-hour)	Nonattainment, Serious	70	0	-1.68	-5.42	-6.38	-8.28
Flathead County; Columbia Falls and vicinity, MT	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-0.22	-0.78	-0.94	-1.22
Flathead County; Kalispell and vicinity, MT	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-2.01	-7.22	-8.65	-11.27
Flathead County; Whitefish and vicinity, MT	PM <sub>10</sub> (1987 24-hour)	Nonattainment, Moderate	100	0	-0.41	-1.46	-1.74	-2.27
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-9.39	-32.70	-39.01	-50.77
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.78	-2.79	-3.35	-4.36
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-3.40	-5.64	-5.52	-6.87
Fremont County; Canon City Area, CO	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-2.99	-10.43	-12.44	-16.19
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-27.98	-98.30	-117.45	-152.89
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.91	-6.84	-8.20	-10.69
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-0.94	-1.26	-1.11	-1.34
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-89.44	-317.63	-380.15	-495.05

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-89.50	-317.85	-380.42	-495.41
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	-44.07	-104.54	-115.15	-147.39
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-3.13	-4.85	-4.60	-5.69
Hancock County (Part) The city of Weirton, including Butler and Clay: Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-4.94	-6.75	-6.00	-7.29
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-60.18	-210.44	-251.24	-327.01
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-62.25	-222.17	-266.11	-346.60
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.34	-1.21	-1.45	-1.89
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.22	-0.77	-0.93	-1.21
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.21	-0.76	-0.91	-1.19
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-1.51	-4.14	-4.72	-6.09
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.90	-1.23	-1.09	-1.32
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-547.31	-	-	-
						1,566.40	1,802.32	2,328.51
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-535.12	-	-	-
						1,526.55	1,755.27	2,267.41
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.96	-7.03	-8.42	-10.97
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.94	-6.93	-8.31	-10.82
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-16.22	-56.61	-67.56	-87.94
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-16.22	-56.59	-67.54	-87.91
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-13.21	-47.36	-56.76	-73.94
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-13.21	-47.36	-56.76	-73.94
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-15.94	-55.59	-66.34	-86.35
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-3.41	-9.01	-10.19	-13.12
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-20.70	-32.82	-31.47	-38.98
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	-0.09	-0.31	-0.37	-0.49
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-28.72	-102.74	-123.11	-160.36
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.62	-1.89	-2.20	-2.85
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-3.08	-9.88	-11.62	-15.08
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-9.16	-32.81	-39.33	-51.23

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-10.43	-29.15	-33.37	-43.07
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.05	-0.17	-0.20	-0.27
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-3.62	-12.90	-15.45	-20.12
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-5.19	-12.25	-13.47	-17.24
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.84	-2.59	-2.34	-2.85
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-17.46	-34.79	-36.41	-46.08
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.90	-6.82	-8.18	-10.65
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.44	-1.59	-1.91	-2.48
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-25.00	-40.16	-38.73	-48.04
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-25.00	-40.16	-38.73	-48.04
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.08	-3.86	-4.62	-6.02
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.79	-2.83	-3.39	-4.41
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-3.40	-12.15	-14.55	-18.95
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-3.40	-12.14	-14.55	-18.94
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-3.90	-13.91	-16.66	-21.70
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-49.25	-167.99	-199.73	-259.75
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-60.36	-205.57	-244.35	-317.77
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-3.24	-11.29	-13.48	-17.54
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.36	-1.31	-1.57	-2.04
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-13.59	-48.27	-57.77	-75.23
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-74.06	-132.80	-133.94	-168.02
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-2.19	-7.78	-9.32	-12.14
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-65.23	-101.48	-96.46	-119.21
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.08	-0.29	-0.35	-0.45
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.04	-0.15	-0.18	-0.23
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	-0.93	-3.26	-3.89	-5.07
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.88	-3.00	-3.57	-4.64

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.88	-6.60	-7.89	-10.27
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-26.68	-93.77	-112.04	-145.85
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-26.68	-93.77	-112.04	-145.86
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.11	-0.38	-0.46	-0.60
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-12.62	-45.23	-54.22	-70.63
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	-135.73	-485.30	-581.45	-757.36
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-135.62	-484.89	-580.97	-756.73
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.19	-7.39	-8.78	-11.41
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-7.17	-7.85	-6.01	-6.96
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-7.05	-24.63	-29.41	-38.28
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-17.76	-39.51	-42.76	-54.53
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-1.82	-3.81	-4.05	-5.15
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.27	-0.96	-1.15	-1.50
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-5.23	-18.76	-22.49	-29.29
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-18.97	-32.77	-32.57	-40.72
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-3.21	-10.52	-12.42	-16.13
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-956.25	-	-	-
						3,363.02	4,018.70	5,231.74
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-75.39	-219.80	-253.87	-328.24
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-75.38	-219.78	-253.84	-328.21
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	-956.05	-	-	-
						3,363.64	4,019.70	5,233.11
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	-955.98	-	-	-
						3,363.39	4,019.40	5,232.72
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-956.46	-	-	-
						3,363.76	4,019.58	5,232.89
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-955.91	-	-	-
						3,361.82	4,017.26	5,229.87

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>					
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3	
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-956.25	-	-	-	-
						3,363.02	4,018.70	5,231.74	
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-73.97	-264.22	-316.52	-412.27	
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-5.83	-20.63	-24.68	-32.13	
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-28.01	-73.82	-83.43	-107.38	
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-13.11	-19.85	-18.63	-22.94	
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	-5.67	-20.31	-24.34	-31.71	
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-3.22	-11.54	-13.84	-18.02	
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-224.19	-803.20	-962.66	-	1,253.97
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-25.93	-92.73	-111.10	-144.72	
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.99	-3.41	-4.06	-5.28	
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.99	-3.41	-4.06	-5.28	
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-3.16	-5.49	-5.47	-6.84	
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-4.93	-17.66	-21.17	-27.58	
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-56.45	-199.76	-238.94	-311.12	
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-74.46	-262.87	-314.31	-409.24	
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.86	-3.09	-3.71	-4.83	
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.88	-3.15	-3.78	-4.92	
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.87	-3.12	-3.74	-4.87	
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-75.72	-264.04	-315.08	-410.07	
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-189.61	-649.64	-772.96	-	1,005.42
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-4.28	-14.34	-16.99	-22.08	
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-4.31	-14.42	-17.09	-22.21	

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-13.20	-47.28	-56.67	-73.81
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-3.32	-11.45	-13.64	-17.75
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.13	-3.75	-4.44	-5.76
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.30	-0.75	-0.84	-1.08
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-1.83	-6.55	-7.85	-10.23
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.27	-0.63	-0.69	-0.88
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.28	-0.66	-0.72	-0.92
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-1.13	-4.04	-4.84	-6.30
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.92	-3.00	-3.54	-4.59
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.68	-5.73	-6.81	-8.85
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-8.28	-29.22	-34.94	-45.49
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.67	-1.42	-1.51	-1.92
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	-4.54	-16.04	-19.18	-24.97
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.47	-1.67	-2.00	-2.61
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-5.90	-20.45	-24.38	-31.72
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-5.93	-20.54	-24.49	-31.87
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.26	-4.52	-5.41	-7.05
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	-47.38	-169.81	-203.53	-265.13
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.39	-2.08	-1.93	-2.38
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-17.05	-60.73	-72.73	-94.72
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-727.99	-	-	-
						2,596.45	3,109.69	4,050.15
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-390.33	-	-	-
						1,391.39	1,666.28	2,170.18
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-716.50	-	-	-
						2,554.26	3,058.93	3,983.97
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	-716.06	-	-	-
						2,552.68	3,057.04	3,981.51
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-1.80	-6.44	-7.71	-10.05
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-1.60	-5.74	-6.88	-8.96



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-83.04	-291.97	-348.87	-454.18
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-90.00	-305.89	-363.47	-472.65
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.19	-0.70	-0.84	-1.09
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-3.32	-11.91	-14.28	-18.60
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-3.32	-11.91	-14.28	-18.60
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.04	-6.28	-7.33	-9.50
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-6.45	-21.29	-25.17	-32.70
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.68	-0.91	-0.80	-0.97
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.68	-0.91	-0.80	-0.97
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-2.44	-8.40	-9.99	-13.00
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.63	-0.70	-0.54	-0.62
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.30	-0.72	-0.79	-1.02
Peoria County: Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-5.27	-18.46	-22.05	-28.71
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-3.27	-10.98	-13.02	-16.93
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-70.23	-217.46	-254.13	-329.37
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	-272.53	-916.14	-	-
						1,086.56	1,412.43	
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-363.73	-	-	-
						1,241.90	1,476.80	1,920.71
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-363.54	-	-	-
						1,241.22	1,475.99	1,919.66
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	-216.53	-775.77	-929.79	-
								1,211.15
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-225.46	-807.77	-968.13	-
								1,261.10
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-231.29	-828.67	-993.18	-
								1,293.73

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.59	-1.27	-1.36	-1.73
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-2.74	-9.83	-11.78	-15.35
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.09	-3.91	-4.69	-6.11
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-15.74	-56.42	-67.62	-88.09
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-6.79	-11.23	-10.96	-13.64
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	-13.73	-46.26	-54.88	-71.34
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-137.04	-416.54	-485.07	-628.24
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-124.97	-379.81	-442.29	-572.82
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.43	-1.51	-1.80	-2.34
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.23	-4.40	-5.27	-6.87
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-73.51	-261.27	-312.74	-407.28
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.04	-0.15	-0.17	-0.23
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-3.71	-13.29	-15.93	-20.74
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-5.52	-19.78	-23.70	-30.88
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-29.80	-103.06	-122.82	-159.80
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.64	-2.11	-2.49	-3.24
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-110.79	-393.23	-470.59	-612.82
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-7.25	-7.91	-6.05	-6.99
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-20.99	-71.83	-85.45	-111.14
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-15.47	-55.45	-66.47	-86.58
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.41	-5.06	-6.07	-7.90
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-28.34	-99.97	-119.52	-155.61
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-28.34	-99.97	-119.52	-155.61
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-33.06	-116.86	-139.76	-181.98
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-951.96	-	-	-
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.11	-0.40	-0.47	-0.62

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-12.59	-18.64	-17.31	-21.26
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-6.47	-7.18	-5.56	-6.46
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-84.21	-288.88	-343.79	-447.20
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-98.56	-290.49	-336.25	-434.95
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-152.94	-481.51	-564.47	-732.05
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-152.92	-481.44	-564.39	-731.94
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-150.16	-471.63	-552.63	-716.63
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-13.27	-47.56	-57.00	-74.25
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	-16.24	-41.58	-46.68	-59.99
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-94.87	-323.35	-384.40	-499.91
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-59.81	-197.68	-233.76	-303.69
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-59.89	-197.98	-234.12	-304.16
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-111.10	-387.83	-462.88	-602.45
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-56.00	-150.31	-170.57	-219.74
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-199.39	-711.88	-852.74	- 1,110.66
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-200.23	-714.87	-856.31	- 1,115.32
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	-199.62	-712.70	-853.71	- 1,111.93
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-445.18	- 1,531.93	- 1,824.07	- 2,372.98
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-444.59	- 1,529.82	- 1,821.54	- 2,369.69
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-448.79	- 1,544.87	- 1,839.58	- 2,393.19
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-411.22	- 1,412.03	- 1,680.70	- 2,186.31
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-254.51	-804.52	-943.82	- 1,224.21

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-254.52	-804.53	-943.83	- 1,224.22
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-254.80	-804.85	-944.08	- 1,224.51
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-253.91	-803.70	-943.09	- 1,223.32
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-253.91	-803.70	-943.09	- 1,223.32
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.14	-3.13	-2.89	-3.55
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-2.14	-3.13	-2.89	-3.54
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.63	-2.26	-2.71	-3.52
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.20	-2.79	-3.06	-3.91
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.07	-0.24	-0.29	-0.38
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-1.63	-5.85	-7.01	-9.13
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-15.54	-54.65	-65.31	-85.02
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-170.16	-609.02	-729.82	-950.64
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-28.54	-101.44	-121.42	-158.13
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-3.58	-12.81	-15.36	-20.00
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-3.46	-12.39	-14.85	-19.34
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-3.58	-12.81	-15.36	-20.00
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.04	-3.67	-4.39	-5.72
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.22	-4.39	-5.26	-6.85
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.79	-6.40	-7.68	-10.00
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.74	-2.66	-3.19	-4.15
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-29.80	-103.06	-122.81	-159.79
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.99	-2.17	-2.33	-2.97
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	-18.05	-64.61	-77.42	-100.85
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-18.39	-65.83	-78.89	-102.76
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-7.43	-26.54	-31.79	-41.41
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-18.97	-23.69	-19.96	-23.84

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-3.29	-10.50	-12.34	-16.02
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	-50.05	-150.42	-174.79	-226.27
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-152.96	-512.08	-606.91	-788.81
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-160.55	-539.29	-639.52	-831.29
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-7.41	-15.27	-16.16	-20.50
Steubenville-Weirton, OH-WV	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-9.58	-25.05	-28.26	-36.36
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-18.76	-66.89	-80.11	-104.33
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-4.07	-7.67	-7.89	-9.94
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.04	-0.04	-0.03	-0.04
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-23.64	-84.48	-101.21	-131.83
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.18	-4.11	-4.91	-6.39
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-3.93	-13.71	-16.36	-21.30
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-5.53	-19.83	-23.77	-30.96
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.07	-0.15	-0.15	-0.19
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.32	-0.84	-0.95	-1.23
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-1.67	-2.24	-1.97	-2.38
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-4.79	-17.13	-20.52	-26.73
Trona, CA	PM <sub>10</sub> (1987 24-hour)	Nonattainment, Moderate	100	0	-1.40	-1.82	-1.57	-1.89
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	-45.29	-162.34	-194.58	-253.46
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-3.50	-12.22	-14.59	-18.99
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.03	-0.02	-0.02
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.13	-2.47	-2.65	-3.38
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.03	-0.04	-0.05
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.68	-2.42	-2.90	-3.78
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-3.33	-3.63	-2.76	-3.19
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-7.12	-8.74	-7.28	-8.67
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-3.57	-4.33	-3.57	-4.24

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.03	-0.12	-0.15	-0.19
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-3.81	-4.02	-2.99	-3.42
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	-0.02	-0.03	-0.02	-0.02
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-16.58	-25.18	-23.67	-29.17
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.95	-3.39	-4.06	-5.30
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-11.76	-15.76	-13.87	-16.79
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-35.00	-108.81	-127.25	-164.95
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-17.42	-62.21	-74.52	-97.06
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-67.98	-192.15	-220.52	-284.75
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-67.92	-191.95	-220.28	-284.43
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.92	-2.92	-3.43	-4.45
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-8.71	-28.31	-33.38	-43.34
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.21	-0.74	-0.88	-1.15
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-3.27	-11.47	-13.71	-17.84
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-2.09	-2.58	-2.16	-2.58
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-2.67	-4.33	-4.18	-5.19
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-2.88	-4.94	-4.90	-6.12
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-39.09	-138.22	-165.31	-215.24
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	-300.84	-	-	-
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-300.95	1,068.34	1,278.63	1,665.09
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-300.95	1,068.74	1,279.11	1,665.72
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-15.63	-56.01	-67.13	-87.45
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-3.83	-13.52	-16.16	-21.04
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-4.28	-11.61	-13.21	-17.02
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-3.16	-11.32	-13.57	-17.67

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.66	-2.35	-2.81	-3.67
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-30.76	-108.62	-129.89	-169.12
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-12.13	-43.29	-51.85	-67.53
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	-1.72	-6.17	-7.40	-9.64
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-5.85	-20.95	-25.12	-32.72
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-10.46	-34.51	-40.80	-53.00
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-10.07	-36.07	-43.24	-56.32
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-5.18	-18.56	-22.25	-28.98

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-16. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Acetaldehyde, 2025**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.01	0.02
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.02	0.02	0.04	0.05
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.02	0.03
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.02	0.02	0.03	0.04
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.02	0.02
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.01	0.01	0.02	0.03
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.01
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.02	0.02	0.03	0.05
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.05	0.07	0.10	0.14
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.02	0.02	0.03
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.01	0.02	0.02
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.11	0.13	0.19	0.27
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.08	0.10	0.14	0.20
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.01	0.01	0.02
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	0.05	0.06	0.08	0.12
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.05	0.06	0.08	0.12
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.01	0.01	0.02	0.03
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.01	0.01
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.02	0.03	0.04	0.06
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.01	0.01	0.02
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.02	0.02	0.03

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.01	0.01
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.01	0.01	0.01	0.02
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	0.01	0.01
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	0.03	0.04	0.05	0.07
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.05	0.07	0.09	0.13
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.12	0.15	0.22	0.31
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.13	0.16	0.22	0.31
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.01	0.01
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.01	0.01
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.04	0.05	0.07	0.10
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.04	0.05	0.07	0.10
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.04	0.05	0.08	0.11
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.02	0.02	0.03	0.04
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.05	0.06	0.08	0.12
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.02	0.03	0.04	0.06
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.05	0.06	0.08	0.12
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.04	0.06	0.08	0.11

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.02	0.03
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.03	0.04	0.06	0.09
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	0.03	0.04	0.06	0.08
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.02	0.02	0.03
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.02	0.02	0.03	0.04
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.13	0.16	0.24	0.34
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.13	0.16	0.23	0.33
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.01	0.01	0.01	0.02
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.06	0.07	0.10	0.15
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	0.04	0.05	0.07	0.11
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.06	0.07	0.10	0.15
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	0.03	0.03	0.05	0.07
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.08	0.10	0.14	0.20
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.01	0.01
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.08	0.10	0.14	0.20
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.01	0.01	0.02	0.02
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.01	0.01
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.01	0.01	0.02	0.02
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.03	0.03	0.05	0.07
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.03	0.03	0.05	0.07
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	0.00	-0.01
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Hancock County (Part) The city of Weirton, including Butler and Clay: Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.02	0.02	0.03	0.05

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.02	0.02	0.03	0.05
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.07	0.08	0.14	0.20
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.07	0.08	0.13	0.19
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.01	0.01	0.01
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.01	0.01	0.01
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.01	0.01	0.01
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.01	0.01	0.01
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.01	0.01	0.01
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.01	0.01	0.02	0.02
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.01	0.01
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.01
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	0.00	0.00	0.00
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.01	0.02	0.03	0.04
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.02	0.02	0.03	0.04
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.01	0.01	0.01
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.01	0.01	0.02
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.01	0.01	0.01
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.01	0.01	0.01	0.02
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.01	0.02
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.01	0.01	0.01
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	0.04	0.05	0.08	0.11

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.04	0.05	0.08	0.11
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.01
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.01
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.01	-0.01	-0.02
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.30	0.37	0.52	0.74
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.02	0.02	0.03	0.04
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	0.02	0.02	0.03	0.04
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	0.30	0.37	0.52	0.74
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	0.30	0.37	0.52	0.74
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	0.30	0.37	0.52	0.74
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	0.30	0.37	0.52	0.74
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	0.30	0.37	0.52	0.74
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.02	0.03	0.04	0.06
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.01	0.01	0.01
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.07	0.09	0.13	0.18
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.01	0.01	0.02

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.02	0.02	0.03	0.04
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.02	0.03	0.04	0.06
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.02	0.03	0.04	0.06
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.06	0.07	0.10	0.14
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.01	0.01	0.01
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.01
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	0.02	0.02	0.03	0.04
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.01	0.01	0.01	0.01
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.23	0.29	0.41	0.57
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.12	0.15	0.22	0.31
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.23	0.28	0.40	0.56
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	0.23	0.28	0.40	0.56
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.03	0.03	0.05	0.06
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.03	0.03	0.05	0.07
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Peoria County; Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.02	0.02	0.03	0.05
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	0.08	0.10	0.14	0.20
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.11	0.13	0.19	0.27
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.11	0.13	0.19	0.27
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	0.07	0.09	0.12	0.17
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.07	0.09	0.13	0.18
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.07	0.09	0.13	0.18
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.01	0.01	0.01	0.01
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.03	0.04	0.06	0.08
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.03	0.03	0.05	0.07
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.02	0.03	0.04	0.06
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	0.00	0.00	0.00
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.01	0.01	0.02	0.02
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.03	0.04	0.06	0.09
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.01	0.01	0.01	0.02
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.01	0.01	0.01
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.01	0.01	0.02	0.02
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	0.01	0.01	0.02	0.02
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.01	0.01	0.02	0.03
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.29	0.37	0.52	0.74
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	-0.01
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.03	0.03	0.04	0.06
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.02	0.03	0.04	0.06
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.04	0.05	0.07	0.10
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.04	0.05	0.07	0.10
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.04	0.05	0.07	0.10
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.01	0.01	0.01
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.03	0.03	0.05	0.07
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.02	0.02	0.03	0.04
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.02	0.02	0.03	0.04
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.03	0.04	0.06	0.08
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.01	0.01	0.02	0.03
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.06	0.08	0.11	0.16
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.06	0.08	0.11	0.16

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	0.06	0.08	0.11	0.16
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.13	0.16	0.23	0.33
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.13	0.16	0.23	0.33
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.13	0.17	0.24	0.34
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.12	0.15	0.22	0.31
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.07	0.08	0.12	0.17
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	0.07	0.08	0.12	0.17
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	0.07	0.08	0.12	0.17
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.07	0.08	0.12	0.17
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	0.07	0.08	0.12	0.17
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.01	0.01	0.01
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.05	0.07	0.10	0.14
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.02	0.02
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	0.01	0.02	0.02
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	0.01	0.01	0.01	0.01
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.01	0.01
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.01
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.01	0.02	0.03
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.04	0.05	0.08	0.11
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.05	0.06	0.08	0.12
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	0.00	0.00
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.01	0.01
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.01	0.02
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.02	0.03	0.04
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.02	0.02
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.01	0.01
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.01	0.02	0.03	0.04
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.01	0.02	0.03	0.04
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.01
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.02	0.02	0.03
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	0.09	0.12	0.17	0.24
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.09	0.12	0.17	0.24
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.01	0.01	0.01

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.02	0.02
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.01	0.01
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.01	0.01
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-17. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Acetaldehyde, 2035**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.16	-0.19	-0.24
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.02
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	-0.02	-0.03	-0.04
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.02
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	-0.01	-0.01	-0.02
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.01	-0.02	-0.02	-0.03
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.02	-0.05	-0.07	-0.09
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.02	-0.02
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.02
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.04	-0.05	-0.06
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.02	-0.11	-0.16	-0.21
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.02	-0.09	-0.12	-0.16
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.02	-0.02
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	0.01	-0.04	-0.06	-0.08
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.01	-0.04	-0.06	-0.08
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.03	-0.08	-0.09	-0.12
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	-0.01	-0.01
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	-0.03	-0.04	-0.06
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.02	-0.02
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	-0.01
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	-0.01	-0.01	-0.01
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.01	-0.02	-0.03	-0.04
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	0.01	-0.03	-0.04	-0.05
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.01	-0.05	-0.07	-0.10
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.04	-0.11	-0.16	-0.21
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.04	-0.11	-0.16	-0.21
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	-0.01
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	-0.03	-0.05	-0.07

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.01	-0.04	-0.05	-0.07
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.01	-0.04	-0.05	-0.07
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	-0.01	-0.02	-0.03
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	-0.04	-0.06	-0.08
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.01	-0.02	-0.03	-0.04
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.01	-0.04	-0.06	-0.09
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.01	-0.04	-0.06	-0.08
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.02	-0.02
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.01	-0.03	-0.05	-0.06
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	0.01	-0.03	-0.04	-0.06
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.02	-0.02
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	-0.01	-0.02	-0.03
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.04	-0.29	-0.37	-0.49
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.04	-0.29	-0.37	-0.48
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.05	-0.20	-0.25	-0.33
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.05	-0.18	-0.22	-0.28

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.05	-0.20	-0.25	-0.33
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	0.01	-0.02	-0.04	-0.05
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.02	-0.07	-0.11	-0.14
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	-0.01	-0.01
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.02	-0.07	-0.11	-0.14
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	-0.01	-0.01
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	-0.01
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	-0.01	-0.01	-0.01
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.02	-0.02
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	-0.01	-0.01
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	-0.01
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.01	-0.02	-0.04	-0.05
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.01	-0.02	-0.04	-0.05
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	-0.06	-0.14	-0.16	-0.20
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Hancock County (Part) The city of Weirton, including Butler and Clay: Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.01	-0.02	-0.02	-0.03
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	-0.02	-0.02	-0.03
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.27	-0.71	-0.85	-1.09

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.27	-0.70	-0.84	-1.08
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	-0.01	-0.01
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	-0.01	-0.01
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	-0.01	-0.01
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	-0.01	-0.01
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	-0.01	-0.01
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.03	-0.03
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.02
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	-0.01	-0.01	-0.01
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.02	-0.02
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	-0.01	-0.01	-0.01
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	-0.01	-0.01	-0.01
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	-0.01	-0.02	-0.03
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.01	-0.02	-0.02	-0.03
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	-0.01	-0.01
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	-0.01	-0.01	-0.02
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.02
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	-0.01	-0.01
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	0.01	-0.04	-0.05	-0.07
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	-0.04	-0.05	-0.07
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.06	-0.11	-0.13	-0.16
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.08	-0.26	-0.38	-0.52
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	-0.02	-0.03	-0.04
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	0.00	-0.02	-0.03	-0.04
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	0.08	-0.26	-0.38	-0.52



Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	0.08	-0.26	-0.38	-0.52
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	0.08	-0.26	-0.38	-0.52
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	0.08	-0.26	-0.38	-0.52
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	0.08	-0.26	-0.38	-0.52
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	-0.02	-0.03	-0.04
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.02	-0.06	-0.09	-0.12
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.02
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.02	-0.02	-0.03
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.01	-0.02	-0.03	-0.04
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.01	-0.02	-0.03	-0.04
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.02	-0.05	-0.07	-0.10

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	-0.01	-0.01
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.02	-0.03
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	-0.01	-0.01

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.07	-0.20	-0.29	-0.40
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.03	-0.11	-0.16	-0.21
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.06	-0.20	-0.29	-0.39
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	0.06	-0.20	-0.29	-0.39
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	-0.02	-0.03	-0.04
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	-0.02	-0.04	-0.05
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Peoria County: Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	-0.02	-0.02	-0.03
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	0.02	-0.07	-0.10	-0.14
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.03	-0.09	-0.14	-0.18
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.03	-0.09	-0.14	-0.18
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	0.02	-0.06	-0.09	-0.12
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.02	-0.06	-0.09	-0.12
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.02	-0.06	-0.09	-0.12
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	-0.01	-0.01
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.10	-0.11	-0.15
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.06	-0.08	-0.11
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.06	-0.08	-0.10
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	-0.02	-0.03	-0.04
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	0.00	0.00	0.00
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	-0.01	-0.01	-0.02
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	-0.03	-0.05	-0.06
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	-0.01	-0.01	-0.01
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	-0.01	-0.01
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	-0.01	-0.01	-0.02
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	0.00	-0.01	-0.01	-0.02
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	-0.01	-0.01	-0.02
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.08	-0.26	-0.38	-0.51
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.11	-0.13	-0.16
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.03	-0.03	-0.04
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	-0.02	-0.03	-0.04
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.03	-0.04	-0.05
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.01	-0.04	-0.06	-0.08
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.01	-0.04	-0.06	-0.08

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.01	-0.04	-0.06	-0.08
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.01	-0.03	-0.04	-0.05
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.02	-0.02	-0.03
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	-0.02	-0.02	-0.03
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	-0.04	-0.05	-0.07
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.02	-0.02	-0.03
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.02	-0.05	-0.08	-0.11
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.02	-0.05	-0.08	-0.11
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	0.02	-0.05	-0.08	-0.11
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.03	-0.12	-0.18	-0.24
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.03	-0.12	-0.18	-0.24
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.04	-0.13	-0.18	-0.24
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.03	-0.12	-0.17	-0.22
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.01	-0.07	-0.10	-0.14
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	0.01	-0.07	-0.10	-0.14
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	0.01	-0.08	-0.10	-0.14
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.01	-0.07	-0.10	-0.14
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	0.01	-0.07	-0.10	-0.14
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	-0.01	-0.01
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.02	-0.05	-0.07	-0.09
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.02
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.02
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	-0.01	-0.01
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	-0.01	-0.01
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.02	-0.02
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.02	-0.03
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	-0.04	-0.06	-0.08
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.01	-0.04	-0.06	-0.08
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Steubenville-Weirton, OH-WV	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	-0.01	-0.01	-0.02
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Trona, CA	PM <sub>10</sub> (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.02	-0.02
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.02
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.02	-0.02
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.02



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				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.03	-0.04	-0.05
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.03	-0.03	-0.04
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.02	-0.03
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	-0.01	-0.01
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	-0.02	-0.03	-0.04
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	-0.02	-0.03	-0.04
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.02	-0.02
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	0.03	-0.08	-0.12	-0.17
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.03	-0.08	-0.12	-0.17
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	-0.01	-0.01

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.02
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	-0.01
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-18. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Acetaldehyde, 2050**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.04	-0.04	-0.05
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.14	-0.34	-0.39	-0.49
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.06	-0.07	-0.09
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.03	-0.10	-0.12	-0.15
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.02	-0.03
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.05	-0.06	-0.08
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.02	-0.06	-0.07	-0.09
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	-0.01	-0.01
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	-0.01	-0.01	-0.02
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.03	-0.10	-0.12	-0.15
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.02	-0.02	-0.03
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.08	-0.30	-0.36	-0.46
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.07	-0.08	-0.10
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.05	-0.06	-0.08
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.05	-0.06	-0.07
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.18	-0.63	-0.75	-0.95
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.14	-0.48	-0.57	-0.72
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.05	-0.06	-0.08
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	-0.07	-0.27	-0.32	-0.40
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.07	-0.27	-0.32	-0.41
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.07	-0.16	-0.19	-0.24
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.02	-0.03	-0.03
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.04	-0.14	-0.17	-0.22
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.04	-0.04	-0.05
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.07	-0.09	-0.11

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.02	-0.02	-0.03
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	-0.01	-0.01
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	-0.01	-0.01
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.01	-0.04	-0.05	-0.06
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.02	-0.02	-0.03
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.02	-0.05	-0.06	-0.08
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	-0.04	-0.16	-0.19	-0.24
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.09	-0.31	-0.37	-0.46
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.19	-0.68	-0.82	-1.03
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.19	-0.69	-0.83	-1.05
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.02	-0.02	-0.03
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.06	-0.22	-0.26	-0.33
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.06	-0.23	-0.27	-0.35
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.07	-0.24	-0.28	-0.36
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.03	-0.10	-0.11	-0.14
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.07	-0.26	-0.31	-0.39
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.03	-0.12	-0.15	-0.19
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.08	-0.27	-0.32	-0.41
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.07	-0.25	-0.30	-0.38

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.06	-0.07	-0.09
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.06	-0.20	-0.24	-0.30
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	-0.05	-0.18	-0.22	-0.28
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.08	-0.09	-0.11
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.10	-0.11	-0.14
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.34	-1.03	-1.21	-1.52
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.34	-1.02	-1.20	-1.51
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.01	-0.04	-0.04	-0.05
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.21	-0.57	-0.67	-0.83
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.17	-0.47	-0.54	-0.68
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.21	-0.57	-0.67	-0.83
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	-0.04	-0.15	-0.18	-0.23
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.13	-0.45	-0.54	-0.68
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.03	-0.03
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.13	-0.45	-0.54	-0.68
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.01	-0.01	-0.01	-0.02
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.02	-0.06	-0.07	-0.09
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.03	-0.03
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.02	-0.02	-0.02
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.02
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.01	-0.05	-0.06	-0.07
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	-0.01
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.04	-0.16	-0.19	-0.24
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.04	-0.16	-0.19	-0.24
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	-0.10	-0.21	-0.24	-0.30
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Hancock County (Part) The city of Weirton, including Butler and Clay; Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.10	-0.12	-0.15

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.03	-0.11	-0.13	-0.16
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.61	-1.49	-1.72	-2.13
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.61	-1.46	-1.69	-2.09
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	-0.01
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.01	-0.03	-0.03	-0.04
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.03	-0.03	-0.04
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.02	-0.03	-0.04
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.01	-0.02	-0.03	-0.04
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.01	-0.03	-0.03	-0.04
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.03	-0.04	-0.05
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.05	-0.06	-0.08
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	-0.01	-0.01
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.02	-0.02	-0.02
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.02	-0.02	-0.03
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.03	-0.03	-0.04
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.01	-0.02	-0.02	-0.03
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.01	-0.02	-0.02	-0.03
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.02	-0.08	-0.10	-0.12
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.10	-0.12	-0.15
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.03	-0.04
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.04	-0.05	-0.06
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.03	-0.04
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.05	-0.06	-0.07
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.05	-0.06	-0.07
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.03	-0.03
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.07	-0.24	-0.28	-0.36
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.07	-0.24	-0.28	-0.36

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.02
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.01	-0.02	-0.02
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	-0.01
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.08	-0.15	-0.17	-0.21
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.46	-1.65	-1.97	-2.50
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.03	-0.11	-0.13	-0.16
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-0.03	-0.11	-0.13	-0.16
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.46	-1.65	-1.97	-2.50
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	-0.46	-1.65	-1.97	-2.50
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-0.46	-1.65	-1.97	-2.50
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-0.46	-1.65	-1.97	-2.50
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-0.46	-1.65	-1.97	-2.50
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.04	-0.13	-0.16	-0.20
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.02
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.03	-0.04	-0.05
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	-0.01	-0.01
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.02
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.11	-0.39	-0.47	-0.60
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.05	-0.06	-0.07
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.03	-0.10	-0.12	-0.15
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.04	-0.13	-0.15	-0.20
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.04	-0.13	-0.15	-0.19
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.09	-0.31	-0.38	-0.48
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.02	-0.03	-0.04
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.02	-0.02
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	-0.01	-0.01	-0.01

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	-0.01	-0.01	-0.02
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.08	-0.10	-0.13
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.03	-0.04	-0.05
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.35	-1.28	-1.53	-1.94
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.19	-0.69	-0.82	-1.04
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.35	-1.26	-1.50	-1.90
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	-0.35	-1.26	-1.50	-1.90
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.04	-0.14	-0.17	-0.22
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.04	-0.15	-0.18	-0.23
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.02
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Peoria County: Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.03	-0.10	-0.12	-0.15
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	-0.12	-0.44	-0.53	-0.66
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.17	-0.60	-0.72	-0.91
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.17	-0.60	-0.72	-0.91
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.10	-0.38	-0.46	-0.58
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.11	-0.40	-0.47	-0.60
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.11	-0.41	-0.49	-0.62
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	-0.01	-0.01
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.01	-0.03	-0.03	-0.04
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.07	-0.13	-0.15	-0.18
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.03	-0.03	-0.04
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.08	-0.24	-0.28	-0.35
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.07	-0.21	-0.25	-0.32
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.04	-0.13	-0.15	-0.19
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.01	-0.05	-0.06	-0.08
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.06	-0.20	-0.23	-0.30

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.03	-0.04	-0.05
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.03	-0.03	-0.04
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.01	-0.05	-0.06	-0.07
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-0.01	-0.05	-0.06	-0.07
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.02	-0.06	-0.07	-0.09
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.46	-1.64	-1.96	-2.49
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.08	-0.15	-0.17	-0.20
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.04	-0.04	-0.05
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.04	-0.14	-0.17	-0.21
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.14	-0.17	-0.22
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.07	-0.24	-0.28	-0.36
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.07	-0.24	-0.28	-0.36
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.07	-0.23	-0.28	-0.35
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.03	-0.04
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.04	-0.16	-0.19	-0.24
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.10	-0.11	-0.15
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.03	-0.10	-0.12	-0.15
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.06	-0.20	-0.24	-0.30
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.02	-0.07	-0.09	-0.11
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.10	-0.35	-0.42	-0.53
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.10	-0.35	-0.42	-0.53
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	-0.10	-0.35	-0.42	-0.53
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.21	-0.75	-0.90	-1.14

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.21	-0.75	-0.90	-1.14
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.21	-0.76	-0.91	-1.15
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.19	-0.69	-0.83	-1.05
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.11	-0.40	-0.47	-0.60
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-0.11	-0.40	-0.47	-0.60
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-0.12	-0.40	-0.47	-0.60
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.11	-0.40	-0.47	-0.60
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-0.11	-0.40	-0.47	-0.60
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.01	-0.01	-0.01
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.01	-0.01	-0.01
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	-0.01	-0.01
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.03	-0.03	-0.04
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.08	-0.30	-0.36	-0.45
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.05	-0.06	-0.08
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.05	-0.06	-0.08
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.01	-0.03	-0.04	-0.05
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.03	-0.04	-0.05

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.02	-0.02
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.03	-0.03
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.07	-0.09	-0.11
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.07	-0.25	-0.30	-0.38
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.07	-0.26	-0.31	-0.40
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Steubenville-Weirton, OH-WV	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.01	-0.02	-0.02	-0.03
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.03	-0.04	-0.05
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.04	-0.05	-0.06
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Trona, CA	PM <sub>10</sub> (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.08	-0.10	-0.12
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.02	-0.02
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.02	-0.03



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.02	-0.02
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.05	-0.05	-0.07
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.04	-0.04	-0.05
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.06	-0.07	-0.09
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.03	-0.04	-0.05
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.03	-0.09	-0.11	-0.14
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.03	-0.09	-0.11	-0.14
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.02	-0.02
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.07	-0.08	-0.10
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	-0.15	-0.53	-0.63	-0.80
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.15	-0.53	-0.63	-0.80
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.01	-0.03	-0.03	-0.04
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.05	-0.07	-0.08
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.03	-0.03
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.02
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	-0.02	-0.02	-0.03
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.02	-0.02	-0.03
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-19. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Acrolein, 2025**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.01
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.01	0.01
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.01	0.01
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	0.00	0.00	0.00	0.01
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.01
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	0.00	0.00	0.00
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	0.00	0.00
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	0.00	0.00
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	0.00	0.00
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	0.00	0.00	0.01
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	0.01	0.01	0.02
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.01	0.01	0.01	0.02
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.01
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	0.00	0.00	0.01
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.01
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.01
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	0.00	0.00	0.01
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	0.00	0.01

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	0.00	0.00	0.00
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	0.00	0.00	0.00	0.00
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.01	0.01	0.01	0.01
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.01	0.01	0.01
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.01	0.01
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	0.01	0.01
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	0.00	0.00	0.00
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Hancock County (Part) The city of Weirton, including Butler and Clay: Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.01	0.01	0.01	0.01
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	0.01	0.01	0.01
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	0.00	0.00	0.00
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	0.00	0.00	0.00
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.01

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.01
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.01	0.02	0.03	0.04
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	0.00	0.00	0.00
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	0.00	0.00	0.00	0.00
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	0.01	0.02	0.03	0.04
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	0.01	0.02	0.03	0.04
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	0.01	0.02	0.03	0.04
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	0.01	0.02	0.03	0.04
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	0.01	0.02	0.03	0.04
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.01	0.01
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	0.00	0.00	0.00
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	0.00	0.00
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.01
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.01	0.01	0.02	0.03
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.01	0.01	0.01	0.02
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.01	0.01	0.02	0.03
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	0.01	0.01	0.02	0.03
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Peoria County; Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	0.00	0.00	0.01	0.01
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.01	0.01	0.01	0.01
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.01	0.01	0.01	0.01
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.01	0.01
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.01	0.01
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.01	0.01
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	0.00	0.00	0.00
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	0.00	0.00	0.00
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	0.00	0.00	0.00	0.00
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.01	0.02	0.03	0.04
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	0.00	0.00	0.01
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.01
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.01	0.01
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	0.00	0.01	0.01

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.01	0.01
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.01	0.01	0.01	0.02
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	0.01	0.01	0.02
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.01	0.01	0.01	0.02
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.01	0.02
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.01	0.01
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	0.00	0.00	0.01	0.01
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	0.00	0.00	0.01	0.01
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.01	0.01
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	0.00	0.00	0.01	0.01
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	0.00	0.00	0.01
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.01
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	0.00	0.00	0.01
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	0.00	0.00
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Union County; LaGrande, OR	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Utah County, UT	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Vermillion County; Part of Clinton Township, IN	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Walla Walla County; Wallula, WA	PM <sub>10</sub> (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	0.00	0.01	0.01	0.01
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.00	0.01	0.01	0.01
Washoe County; Reno planning area, NV	PM <sub>10</sub> (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-20. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Acrolein, 2035**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.03	-0.03
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.02	-0.02
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.02
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	0.00	0.00	0.00	-0.01
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	-0.01
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	0.00	0.00	-0.01
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	0.00	-0.01
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	0.00	0.00
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	0.00	-0.01
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	0.00	-0.01	-0.01
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.02
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	-0.01	-0.01	-0.02
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	0.00	0.00	-0.01
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	-0.01
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	-0.01
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	0.00	-0.01	-0.01
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	0.00	-0.01

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	0.00	0.00	-0.01
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	0.00	0.00	0.00	0.00
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.01	-0.04	-0.05	-0.06
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.04	-0.05	-0.06
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.03	-0.03	-0.04
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.01	-0.02	-0.03	-0.04
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.01	-0.03	-0.03	-0.04
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	-0.01	-0.01	-0.01
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	0.00	0.00	0.00
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.03	-0.03
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Hancock County (Part) The city of Weirton, including Butler and Clay; Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	-0.02	-0.03	-0.03
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.02	-0.02	-0.03
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	-0.01
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	0.00	0.00	0.00
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	0.00	0.00	0.00
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	-0.01

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	-0.01
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.02	-0.02	-0.03
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.01	-0.02	-0.03	-0.04
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	0.00	0.00	0.00
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	0.00	0.00	0.00	0.00
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	0.01	-0.02	-0.03	-0.04
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	0.01	-0.02	-0.03	-0.04
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	0.01	-0.02	-0.03	-0.04
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	0.01	-0.02	-0.03	-0.04
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	0.01	-0.02	-0.03	-0.04
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	-0.01	-0.01
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	0.00	0.00	0.00
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	0.00	0.00
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	-0.01	-0.01
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	-0.02	-0.02	-0.03
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	-0.01	-0.01	-0.02
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	-0.02	-0.02	-0.03
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	0.00	-0.02	-0.02	-0.03
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Peoria County: Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	0.00	-0.01	-0.01	-0.01
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	-0.01	-0.01	-0.01
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.00	-0.01	-0.01	-0.01
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	-0.01	-0.01
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	-0.01	-0.01
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	-0.01	-0.01
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	-0.01	-0.01	-0.01
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	0.00	0.00	0.00
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	0.00	0.00	0.00
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	0.00	0.00	0.00	0.00
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.01	-0.02	-0.03	-0.04
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	-0.01	-0.01
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	0.00	0.00	-0.01
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	-0.01
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	-0.01
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	-0.01
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	-0.01	-0.01
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	0.00	-0.01	-0.01

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	-0.01	-0.01
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.02
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.02
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.02
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.02
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	-0.01	-0.01	-0.01
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	0.00	-0.01	-0.01	-0.01
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	0.00	-0.01	-0.01	-0.01
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	-0.01	-0.01	-0.01
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	0.00	-0.01	-0.01	-0.01
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	0.00	-0.01	-0.01
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	-0.01	-0.01
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	-0.01
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	0.00	0.00	-0.01
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	0.00	0.00
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	-0.01
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	0.00	-0.01	-0.01	-0.01
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.00	-0.01	-0.01	-0.01
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-21. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Acrolein, 2050**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.04	-0.04	-0.05
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	-0.01
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	-0.01
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.01	-0.04	-0.05	-0.06
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.03	-0.04	-0.05
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	0.00	-0.02	-0.02	-0.02
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.00	-0.02	-0.02	-0.03
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	-0.01	-0.01	-0.02
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	-0.01	-0.01

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	0.00	0.00
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	-0.01	-0.01	-0.01
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.02
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.01	-0.02	-0.02	-0.03
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.04	-0.05	-0.06
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.01	-0.04	-0.05	-0.07
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.02	-0.02
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	-0.01	-0.02	-0.02
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	-0.01	-0.02	-0.02
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.02	-0.02	-0.02
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	-0.02	-0.02	-0.03
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	-0.02	-0.02	-0.02

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	-0.01
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	-0.01	-0.02	-0.02
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	0.00	-0.01	-0.01	-0.02
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.03	-0.09	-0.10	-0.13
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.09	-0.10	-0.13
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.05	-0.06	-0.08
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.02	-0.05	-0.05	-0.06
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.02	-0.05	-0.06	-0.08
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.03	-0.03	-0.04
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.01	-0.03	-0.03	-0.04
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	-0.01
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	0.00	0.00	0.00
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	-0.01	-0.01	-0.01
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.00	-0.01	-0.01	-0.01
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.03	-0.03	-0.04
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Hancock County (Part) The city of Weirton, including Butler and Clay: Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.02	-0.06	-0.07	-0.09
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.06	-0.07	-0.08
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	0.00	0.00	0.00
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	-0.01	-0.02	-0.02
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.02	-0.02

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.03	-0.03	-0.04
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.03	-0.10	-0.12	-0.16
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	-0.01	-0.01	-0.01
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	0.00	-0.01	-0.01	-0.01
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.03	-0.10	-0.12	-0.16
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	-0.03	-0.10	-0.12	-0.16
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-0.03	-0.10	-0.12	-0.16
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-0.03	-0.10	-0.12	-0.15
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-0.03	-0.10	-0.12	-0.16
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.01	-0.02	-0.03	-0.04
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	-0.01	-0.01	-0.01
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.02	-0.02	-0.03
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.02	-0.08	-0.10	-0.12
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.01	-0.04	-0.05	-0.06
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.02	-0.08	-0.09	-0.12
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	-0.02	-0.08	-0.09	-0.12
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Peoria County; Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	-0.01	-0.03	-0.03	-0.04
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.04	-0.04	-0.06
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.04	-0.04	-0.06
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.01	-0.02	-0.03	-0.04
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.01	-0.02	-0.03	-0.04
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.03	-0.03	-0.04
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.02	-0.02	-0.03
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	0.00	0.00	0.00
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.02
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	0.00	0.00	0.00
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	0.00	0.00	0.00	0.00
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	-0.01
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.03	-0.10	-0.12	-0.15
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.03	-0.03
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	-0.01	-0.02	-0.02
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	-0.01	-0.02	-0.02
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.02	-0.02
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	-0.01	-0.01	-0.02
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.02	-0.02
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	-0.01	-0.01
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.02	-0.03	-0.03
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.01	-0.02	-0.03	-0.03

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	-0.01	-0.02	-0.03	-0.03
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.05	-0.06	-0.07
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.05	-0.06	-0.07
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.05	-0.06	-0.07
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.04	-0.05	-0.06
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.01	-0.02	-0.03	-0.04
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-0.01	-0.02	-0.03	-0.04
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-0.01	-0.02	-0.03	-0.04
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.01	-0.02	-0.03	-0.04
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-0.01	-0.02	-0.03	-0.04
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	-0.02	-0.02	-0.03
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.02	-0.02	-0.02
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	-0.02	-0.02	-0.02
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	0.00	0.00
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	-0.01	-0.01
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	-0.01	-0.01	-0.01
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	-0.01	-0.01	-0.01
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	-0.01	-0.01
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	-0.01	-0.03	-0.04	-0.05
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.03	-0.04	-0.05
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

Table B-22. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Benzene, 2025

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.02	0.03
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.07	0.09	0.15	0.21
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.04	0.06	0.08	0.11
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	0.01	0.01	0.01
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.01	0.01	0.01
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.05	0.06	0.10	0.13
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.02	-0.02
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.04	0.05	0.07	0.10
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.05	0.06	0.09	0.12
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	-0.01
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.01	0.01
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.08	0.11	0.15	0.21
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.02	0.03	0.04
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.25	0.32	0.45	0.62
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.01	0.02	0.03
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.01
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.06	0.07	0.10	0.14
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.04	0.05	0.08	0.11
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.49	0.65	0.91	1.25
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.37	0.49	0.68	0.94
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.04	0.05	0.07	0.09
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	0.21	0.28	0.39	0.54
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.22	0.28	0.40	0.55
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.03	0.03	0.06	0.08
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	0.02	0.03	0.04
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.10	0.13	0.18	0.25
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.01	0.02	0.03
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.05	0.06	0.09	0.13

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.02	0.02	0.03	0.04
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.01	0.01	0.01
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.01	0.01	0.01
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.01
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.03	0.04	0.05	0.07
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.02	0.02	0.03	0.04
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	-0.01	0.00	0.00
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	0.14	0.18	0.25	0.34
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.25	0.32	0.45	0.62
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.56	0.73	1.03	1.42
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.57	0.75	1.05	1.44
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.02	0.02	0.03	0.04
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.01	0.02
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.02	0.02	0.03	0.04
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.19	0.25	0.34	0.47
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.19	0.26	0.36	0.49
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.19	0.26	0.36	0.49
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.08	0.11	0.15	0.20
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.21	0.28	0.39	0.54
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.10	0.14	0.19	0.26
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.22	0.29	0.41	0.56
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.21	0.27	0.38	0.52

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.02	0.03	0.05	0.07
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.16	0.21	0.30	0.41
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	0.15	0.20	0.28	0.38
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.01	0.01
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.01	0.01	0.01
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.06	0.08	0.12	0.16
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.08	0.11	0.15	0.20
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.68	0.89	1.25	1.72
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.67	0.88	1.23	1.69
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.02	0.03	0.04	0.06
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.15	0.17	0.31	0.43
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	0.11	0.12	0.23	0.32
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.15	0.17	0.31	0.43
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	0.10	0.12	0.19	0.26
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.26	0.32	0.50	0.68
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.01	0.02	0.02	0.03
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.26	0.32	0.50	0.68
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.01	0.01
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.01
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.04	0.05	0.08	0.10
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.02	0.02	0.03	0.04
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.02	0.02
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.01	0.01
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.04	0.06	0.08	0.10
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.01
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.12	0.16	0.22	0.31
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.12	0.16	0.22	0.31
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.00	0.02	0.02
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Hancock County (Part) The city of Weirton, including Butler and Clay; Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.03	-0.03	-0.05
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.09	0.11	0.16	0.22

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.08	0.11	0.16	0.21
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.30	0.35	0.61	0.84
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.28	0.33	0.58	0.80
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.01
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.01
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.02	0.03	0.04	0.06
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.02	0.03	0.04	0.06
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.02	0.03	0.04	0.05
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.02	0.03	0.04	0.05
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.02	0.03	0.04	0.06
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.01
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.04	0.05	0.08	0.11
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.01	0.01	0.01
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.02	0.03
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.01	0.01	0.02	0.02
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.01	0.01	0.01	0.01
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.01	0.01
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.01



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.01	0.01	0.01	0.02
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.01	0.01	0.01	0.02
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.01	0.01	0.01
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.01	0.01	0.01
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.01	0.01	0.01
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.07	0.09	0.12	0.17
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.08	0.10	0.15	0.20
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.02	0.03	0.04	0.05
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.03	0.04	0.06	0.08
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.02	0.02	0.03	0.04
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.01	0.01
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.04	0.05	0.07	0.09
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.04	0.05	0.07	0.09
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.02	0.02	0.03	0.04
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	0.20	0.26	0.36	0.49
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.19	0.26	0.36	0.49

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.01	0.01
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	-0.01
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.01	0.01	0.02	0.02
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.01	0.01	0.02	0.03
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.01	0.02
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.01	0.01	0.01
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	1.46	1.93	2.66	3.66
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.08	0.11	0.15	0.21
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	0.08	0.11	0.15	0.21
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	1.46	1.93	2.66	3.66
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	1.46	1.93	2.66	3.66
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	1.46	1.93	2.66	3.66
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	1.46	1.93	2.66	3.66
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	1.46	1.93	2.66	3.66
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.11	0.15	0.20	0.28
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.01	0.01	0.02
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.02	0.03	0.04	0.06
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.01	0.02	0.02
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.01	0.01	0.01
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.33	0.44	0.61	0.84
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.04	0.05	0.07	0.10
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.02	-0.02	-0.02	-0.03
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.01	0.02
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.07	0.09	0.13	0.18
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.09	0.11	0.17	0.23
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.11	0.14	0.20	0.27
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.25	0.33	0.46	0.64
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.02	0.03	0.04	0.05
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.01	0.01
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.01
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.01
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	0.01	0.02	0.03
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.01	0.01	0.02
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.01	0.01	0.02	0.02
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.01	0.01	0.02	0.02
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	0.06	0.08	0.11	0.15
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.02	0.03	0.04	0.06
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	1.05	1.38	1.94	2.66
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.56	0.73	1.03	1.42
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	1.04	1.36	1.91	2.62
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	1.04	1.36	1.90	2.62
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.01	0.01
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.12	0.16	0.22	0.30
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.12	0.15	0.21	0.29
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.01	0.01	0.01
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.01	0.01	0.01
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.01	0.01	0.02
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Peoria County; Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.01	0.01	0.02
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.01	0.01	0.01
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.07	0.09	0.13	0.18
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	0.36	0.47	0.66	0.90
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.49	0.65	0.91	1.25
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.49	0.65	0.91	1.25
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	0.32	0.42	0.59	0.81
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.33	0.44	0.61	0.84
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.34	0.45	0.63	0.86
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.01	0.01	0.01
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.02	0.03	0.04	0.06
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	0.02	0.02	0.03	0.04
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.10	0.13	0.20	0.28
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.09	0.11	0.18	0.25
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.10	0.13	0.19	0.26
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.01	0.01	0.02	0.02
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.04	0.06	0.08	0.11
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.16	0.21	0.30	0.41
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.03	0.04	0.05	0.07
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.02	0.03	0.04	0.06
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.04	0.06	0.08	0.11
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	0.04	0.06	0.08	0.11
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.05	0.07	0.09	0.13
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	1.45	1.92	2.65	3.64
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.01
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.02
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.12	0.16	0.23	0.31
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.12	0.15	0.21	0.29
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.20	0.26	0.36	0.49
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.20	0.26	0.36	0.49
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.19	0.25	0.35	0.48
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.02	0.02	0.03	0.04
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.02	0.02	0.03
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.12	0.16	0.23	0.31
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.07	0.10	0.14	0.19
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.07	0.10	0.14	0.19
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.15	0.20	0.28	0.38
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.05	0.07	0.10	0.13
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.31	0.41	0.57	0.78
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.31	0.42	0.57	0.79

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	0.31	0.41	0.57	0.78
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.66	0.88	1.21	1.66
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.66	0.88	1.20	1.66
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.67	0.88	1.22	1.67
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.61	0.81	1.11	1.53
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.32	0.42	0.58	0.80
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	0.32	0.42	0.58	0.80
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	0.32	0.42	0.58	0.80
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.32	0.42	0.58	0.80
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	0.32	0.42	0.58	0.80
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.02	0.03	0.04	0.06
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.23	0.29	0.42	0.58
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.03	0.04	0.06	0.09
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	0.01	0.01	0.01
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	0.01	0.01	0.01
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.01	0.01	0.01
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.04	0.06	0.08	0.11
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	0.02	0.03	0.04	0.06
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.02	0.03	0.04	0.06
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.01	0.02	0.03
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.02	-0.03
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.01	0.01
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	0.05	0.07	0.10	0.14
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.18	0.24	0.34	0.47
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.20	0.25	0.36	0.50
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.02	-0.03	-0.03	-0.04
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	0.00	0.00
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.03	0.04	0.05	0.07
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.04	0.05	0.06	0.09
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.01	0.01	0.01
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.01	0.02
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.01	0.01	0.02
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	0.07	0.09	0.12	0.17
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	0.01	0.01	0.01
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.02
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	-0.01	-0.01
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.03	-0.03	-0.05
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	0.00	-0.01
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.03	0.04	0.06	0.08
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.03	0.03	0.05	0.06
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.07	0.10	0.13	0.18
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.07	0.10	0.13	0.18
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.01	0.02	0.02
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.01	0.01	0.01
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	-0.01
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.06	0.08	0.11	0.15
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	0.44	0.57	0.80	1.10
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.44	0.58	0.80	1.10
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.02	0.03	0.04	0.06
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.01	0.01	0.01

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.01	0.01
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.01	0.01	0.01
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.05	0.06	0.08	0.12
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.02	0.02	0.03	0.04
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.01
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.01	0.02
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.01	0.02	0.03	0.04
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.01	0.02	0.02	0.03
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	0.01	0.01	0.02

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-23. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Benzene, 2035**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.15	-0.29	-0.33	-0.42
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.46	-0.90	-1.02	-1.31
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.05	-0.10	-0.11	-0.15
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.01	-0.01	-0.02
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.17	-0.33	-0.37	-0.48
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.13	-0.24	-0.28	-0.36
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.09	-0.10	-0.13
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.05	-0.09	-0.10	-0.14
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.03	-0.04	-0.05
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.06	-0.11	-0.13	-0.17
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.04	-0.09	-0.09	-0.12
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.02	-0.02
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.02
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.13	-0.27	-0.29	-0.39
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.04	-0.05	-0.06
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.03	-0.03	-0.04
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.05	-0.05	-0.07
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.05	-0.05	-0.07
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.01	-0.02	-0.02	-0.03
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.23	-0.49	-0.52	-0.70
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.19	-0.40	-0.43	-0.57
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.02
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	-0.11	-0.22	-0.24	-0.32
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.11	-0.23	-0.24	-0.32
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.28	-0.55	-0.62	-0.80
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.05	-0.06	-0.07
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-0.05	-0.10	-0.12	-0.15
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.02	-0.03	-0.03	-0.04
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.10	-0.20	-0.22	-0.28
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	-0.15	-0.29	-0.33	-0.42
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.10	-0.20	-0.22	-0.29

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.03	-0.04	-0.05
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.05	-0.05	-0.07
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.01	-0.02	-0.02	-0.03
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.17	-0.34	-0.39	-0.49
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	-0.04	-0.08	-0.08	-0.11
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.11	-0.23	-0.24	-0.32
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.23	-0.50	-0.53	-0.71
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.24	-0.51	-0.54	-0.72
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.08	-0.07	-0.11
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.04	-0.08	-0.08	-0.11
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.09	-0.18	-0.19	-0.26
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.05	-0.05	-0.06
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.08	-0.17	-0.17	-0.24
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.03	-0.06	-0.06	-0.08
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.09	-0.19	-0.20	-0.26
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.07	-0.16	-0.16	-0.22

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.17	-0.33	-0.37	-0.48
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.04	-0.09	-0.09	-0.12
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	-0.04	-0.08	-0.08	-0.11
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.03	-0.04	-0.05
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.04	-0.04	-0.05
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.05	-0.05	-0.06
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.22	-0.47	-0.49	-0.66
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.21	-0.47	-0.48	-0.66
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.06	-0.12	-0.13	-0.17
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.16	-2.29	-2.60	-3.35
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.91	-1.79	-2.03	-2.61
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-1.16	-2.29	-2.60	-3.35
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	-0.22	-0.44	-0.49	-0.63
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.83	-1.65	-1.87	-2.41
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.04	-0.07	-0.08	-0.10
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.84	-1.66	-1.87	-2.41
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.01	-0.01	-0.02
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	-0.01	-0.01	-0.01

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.03	-0.06	-0.07	-0.09
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.03	-0.03	-0.04
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	-0.01	-0.01	-0.01
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.03	-0.07	-0.07	-0.10
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.01	-0.01	-0.02
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.05	-0.06	-0.08
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.01	-0.01	-0.02	-0.02
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.01	-0.03	-0.03	-0.04
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.04	-0.05	-0.06
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.03	-0.06	-0.07	-0.09
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.03	-0.04	-0.05
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	-0.01	0.00	-0.01
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.01
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.10	-0.21	-0.23	-0.30
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.10	-0.21	-0.23	-0.30
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	-0.19	-0.37	-0.42	-0.54
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.07	-0.08	-0.10
Hancock County (Part) The city of Weirton, including Butler and Clay: Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.14	-0.27	-0.30	-0.39
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.06	-0.07	-0.09

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.07	-0.15	-0.16	-0.21
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-1.92	-3.79	-4.30	-5.54
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.91	-3.76	-4.26	-5.48
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.01
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	-0.01	-0.01	-0.01
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.05	-0.10	-0.12	-0.15
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.02	-0.03	-0.04	-0.05
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.03	-0.04	-0.05
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.02	-0.04	-0.05	-0.06
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.03	-0.06	-0.06	-0.08
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.05	-0.05	-0.07
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.07	-0.08	-0.10
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.02	-0.03	-0.03	-0.04
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.02	-0.03	-0.03	-0.04
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.01	-0.01	-0.02
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.01	-0.02	-0.02
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.03	-0.06	-0.07	-0.09
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.09	-0.10	-0.13
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.02	-0.02
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.02
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.03	-0.05	-0.06	-0.08
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.04	-0.05	-0.06
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.03	-0.05	-0.06	-0.08
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.05	-0.06	-0.08
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.05	-0.06	-0.08
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.09	-0.18	-0.19	-0.26
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.09	-0.18	-0.19	-0.26

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.02	-0.03	-0.04	-0.05
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.02	-0.04	-0.04	-0.05
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.02	-0.02
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.06	-0.12	-0.14	-0.18
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.14	0.17	0.30	0.30
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.01	-0.03	-0.03	-0.05
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-0.01	-0.03	-0.03	-0.05
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	0.14	0.17	0.30	0.30
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	0.14	0.17	0.30	0.30
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	0.14	0.17	0.30	0.30
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	0.14	0.17	0.30	0.30
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	0.14	0.17	0.30	0.30
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.05	-0.05	-0.07
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.02
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.04	-0.04	-0.05
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.07	-0.07	-0.10
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.09	-0.20	-0.20	-0.28
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.03	-0.03	-0.04
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.10	-0.20	-0.23	-0.30
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.02	-0.02	-0.03
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.11	-0.21	-0.24	-0.31
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.14	-0.29	-0.32	-0.42
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	-0.01
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	-0.01
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.03	-0.08	-0.08	-0.11
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.15	-0.31	-0.33	-0.44
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.04	-0.08	-0.10	-0.12
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.08	-0.10	-0.12
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.02	-0.02	-0.02
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.03	-0.03	-0.04
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	-0.01	-0.01
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	-0.01	-0.01
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	-0.08	-0.17	-0.19	-0.24
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.02
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.02	-0.04	-0.04	-0.05
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.40	-0.85	-0.89	-1.20
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.25	-0.52	-0.55	-0.74
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.39	-0.84	-0.88	-1.19
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	-0.39	-0.84	-0.88	-1.19
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.04	-0.08	-0.08	-0.11
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.09	-0.18	-0.19	-0.25
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	-0.01	-0.01
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	-0.01	-0.01
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.03	-0.04	-0.05
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Peoria County: Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.11	-0.22	-0.24	-0.32
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	-0.18	-0.38	-0.40	-0.54
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.19	-0.40	-0.42	-0.56
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.19	-0.40	-0.42	-0.56
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.09	-0.19	-0.19	-0.27
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.09	-0.20	-0.20	-0.28
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.09	-0.20	-0.21	-0.28
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	-0.01
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.01	-0.01	-0.01	-0.02
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.08	-0.09	-0.11
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.03	-0.04	-0.05
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.40	-0.78	-0.89	-1.14
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.38	-0.74	-0.84	-1.08
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.07	-0.14	-0.15	-0.19
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.06	-0.07	-0.09
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	0.00	0.00	-0.01
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.01	-0.02	-0.02	-0.03
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.04	-0.10	-0.10	-0.13
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.02	-0.02
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.03	-0.03	-0.04
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.02	-0.02
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.01	0.01	0.01	0.02
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	0.01	0.01	0.01	0.02
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.01	0.01	0.02	0.02
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.14	0.17	0.30	0.30
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.12	-0.14	-0.18
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.06	-0.12	-0.13	-0.17
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.02	0.01
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.00	0.01	0.01
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	-0.01	0.01	0.00
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	-0.01	0.01	0.00
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	0.01	0.00
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.06	-0.07	-0.09
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.03	-0.03	-0.04
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.09	-0.18	-0.20	-0.27
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.10	-0.11	-0.15
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.05	-0.10	-0.11	-0.15
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.09	-0.19	-0.21	-0.28
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.02	-0.04	-0.04	-0.05
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.04	0.06	0.09	0.09
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.04	0.06	0.09	0.09

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	0.04	0.06	0.09	0.09
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.08	0.11	0.18	0.19
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.08	0.11	0.18	0.18
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.08	0.11	0.18	0.19
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.07	0.10	0.16	0.17
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.07	-0.16	-0.16	-0.22
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-0.07	-0.16	-0.16	-0.22
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-0.07	-0.16	-0.16	-0.22
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.07	-0.16	-0.16	-0.22
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-0.07	-0.16	-0.16	-0.22
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.01	-0.01	-0.02
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.23	-0.46	-0.51	-0.67
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.07	-0.13	-0.15	-0.19
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.02	-0.02
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.02	-0.02	-0.03
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.03	-0.06	-0.07	-0.09
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.06	-0.07	-0.09
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.02
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.10	-0.20	-0.23	-0.29
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.07	-0.08	-0.10
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.19	-0.38	-0.42	-0.55
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.19	-0.38	-0.42	-0.55
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.14	-0.27	-0.31	-0.40
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.07	-0.14	-0.16	-0.20
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.01	-0.01	-0.02
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.06	-0.07	-0.09
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	-0.01
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.06	-0.11	-0.12	-0.16
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.03	-0.06	-0.07	-0.09
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.05	-0.05	-0.07
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.02	-0.02
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.16	-0.31	-0.36	-0.46
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.07	-0.08	-0.10
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.08	-0.16	-0.18	-0.23
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.02	-0.02	-0.03
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.01	-0.02	-0.02	-0.03
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.01	-0.02	-0.02	-0.03
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.04	-0.04	-0.06
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.04	-0.04	-0.06
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.04	-0.05	-0.07
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	-0.13	-0.29	-0.30	-0.41
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.13	-0.29	-0.30	-0.41
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.02	-0.02

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.02	-0.02
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.03	-0.03	-0.05
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.02	-0.03	-0.04	-0.05
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.02	-0.02	-0.02

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-24. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Benzene, 2050**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.23	-0.45	-0.51	-0.62
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.75	-1.50	-1.70	-2.07
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.12	-0.25	-0.28	-0.35
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.03	-0.03	-0.04
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.04	-0.05	-0.06
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.29	-0.60	-0.68	-0.83
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.03	-0.03
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.18	-0.34	-0.38	-0.46
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.10	-0.22	-0.25	-0.31
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.11	-0.24	-0.27	-0.34
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.04	-0.05	-0.06
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.09	-0.17	-0.19	-0.24
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.01
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.13	-0.30	-0.35	-0.43
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.03	-0.03	-0.04
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.05	-0.05	-0.07
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.41	-0.92	-1.07	-1.32
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.04	-0.09	-0.10	-0.13
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.05	-0.05	-0.06
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.08	-0.19	-0.22	-0.27
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.07	-0.16	-0.19	-0.23
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.03	-0.04	-0.04
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.01	-0.03	-0.03	-0.04
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.78	-1.78	-2.05	-2.54
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.61	-1.39	-1.60	-1.98
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.04	-0.10	-0.11	-0.14
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	-0.01
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	-0.35	-0.79	-0.91	-1.12
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.35	-0.79	-0.92	-1.13
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.44	-0.87	-0.99	-1.20
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.02
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.02
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.05	-0.10	-0.12	-0.15
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-0.08	-0.15	-0.17	-0.21
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.02	-0.04	-0.04	-0.05
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.23	-0.50	-0.58	-0.71
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	-0.23	-0.45	-0.51	-0.62
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.02	-0.02
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.19	-0.40	-0.46	-0.56

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.05	-0.05	-0.06
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.06	-0.07	-0.08
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.04	-0.05	-0.06
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.04	-0.10	-0.11	-0.14
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.03	-0.04	-0.05
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.26	-0.49	-0.56	-0.68
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	-0.17	-0.40	-0.47	-0.58
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.38	-0.86	-0.99	-1.23
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.84	-1.93	-2.23	-2.77
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.86	-1.97	-2.27	-2.82
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.04	-0.05	-0.06
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.02	-0.02	-0.02
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.04	-0.05	-0.06
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.21	-0.51	-0.60	-0.74
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.22	-0.54	-0.62	-0.77
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.30	-0.69	-0.79	-0.98
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.10	-0.24	-0.28	-0.34
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.30	-0.70	-0.81	-1.00
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.13	-0.31	-0.36	-0.44
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.32	-0.75	-0.86	-1.07
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.29	-0.67	-0.77	-0.96

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.27	-0.54	-0.61	-0.75
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.20	-0.48	-0.55	-0.69
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	-0.18	-0.44	-0.51	-0.63
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.06	-0.07	-0.08
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.02	-0.02
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.08	-0.19	-0.22	-0.27
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.10	-0.24	-0.28	-0.34
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.92	-2.15	-2.48	-3.08
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.91	-2.12	-2.45	-3.04
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.11	-0.22	-0.25	-0.31
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.89	-3.73	-4.22	-5.16
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-1.47	-2.90	-3.28	-4.01
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-1.89	-3.73	-4.22	-5.16
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	-0.42	-0.86	-0.98	-1.20
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.48	-3.01	-3.42	-4.19
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.07	-0.13	-0.15	-0.19
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-1.49	-3.01	-3.42	-4.19
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.02	-0.02	-0.03
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.01	-0.02	-0.02
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	-0.01	-0.01	-0.01
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.02	-0.02
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.01	-0.01	-0.01

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.05	-0.09	-0.11	-0.13
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.04	-0.04	-0.05
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.01	-0.01	-0.02	-0.02
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.08	-0.19	-0.21	-0.26
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.02	-0.02	-0.03
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-0.05	-0.11	-0.13	-0.15
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.01	-0.02	-0.02	-0.03
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.02	-0.04	-0.05	-0.06
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.06	-0.07	-0.08
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.06	-0.11	-0.13	-0.16
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.03	-0.05	-0.05	-0.07
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.04	-0.10	-0.11	-0.14
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.02	-0.02	-0.02
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.02	-0.02
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.26	-0.57	-0.65	-0.81
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.26	-0.57	-0.65	-0.81
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	-0.29	-0.56	-0.64	-0.77
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.09	-0.10	-0.12
Hancock County (Part) The city of Weirton, including Butler and Clay; Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.19	-0.35	-0.39	-0.48
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.12	-0.27	-0.32	-0.39

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.18	-0.40	-0.45	-0.56
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-3.16	-6.28	-7.12	-8.70
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-3.13	-6.20	-7.03	-8.58
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.02
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.02	-0.03
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.03	-0.06	-0.07	-0.09
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.06	-0.07	-0.09
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.02	-0.05	-0.06	-0.08
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.02	-0.05	-0.06	-0.08
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.03	-0.06	-0.07	-0.09
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.08	-0.15	-0.17	-0.21
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.06	-0.14	-0.16	-0.20
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.02
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.07	-0.09	-0.10
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.04	-0.08	-0.09	-0.11
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.02	-0.03
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.04	-0.08	-0.09	-0.11
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.06	-0.07	-0.09
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.11	-0.13	-0.16
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.02



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.03	-0.06	-0.07	-0.08
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.03	-0.06	-0.07	-0.08
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	-0.01	-0.01
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.03	-0.03	-0.04
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.03	-0.03	-0.04
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.02	-0.03	-0.04	-0.04
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.10	-0.23	-0.27	-0.33
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.13	-0.30	-0.35	-0.43
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.03	-0.03	-0.04
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.03	-0.06	-0.07	-0.09
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.06	-0.14	-0.16	-0.20
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.10	-0.11	-0.14
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.07	-0.15	-0.18	-0.22
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.07	-0.15	-0.18	-0.22
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.11	-0.13	-0.15
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.30	-0.69	-0.79	-0.98
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.30	-0.69	-0.79	-0.98

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.02	-0.04	-0.05	-0.06
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.02	-0.05	-0.06	-0.07
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.04	-0.07	-0.08	-0.10
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.02	-0.03	-0.03
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.04	-0.04	-0.05
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.09	-0.18	-0.20	-0.25
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.02
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-1.06	-2.85	-3.34	-4.20
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.09	-0.23	-0.26	-0.33
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-0.09	-0.23	-0.26	-0.33
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	-1.06	-2.85	-3.34	-4.20
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	-1.06	-2.85	-3.34	-4.20
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-1.06	-2.85	-3.34	-4.20
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-1.06	-2.85	-3.34	-4.20
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-1.06	-2.85	-3.34	-4.20
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.13	-0.31	-0.36	-0.45
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.04	-0.04	-0.05
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.05	-0.11	-0.12	-0.15
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.09	-0.11	-0.13
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.02
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.01	-0.02	-0.02
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.42	-1.00	-1.16	-1.44
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.05	-0.13	-0.15	-0.18
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	-0.01

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	-0.01
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.14	-0.27	-0.30	-0.37
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.04	-0.05	-0.06
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.22	-0.46	-0.53	-0.65
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.30	-0.62	-0.71	-0.87
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.15	-0.34	-0.39	-0.49
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.44	-0.99	-1.14	-1.41
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.06	-0.12	-0.14	-0.17
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.12	-0.14	-0.17
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.03	-0.06	-0.07	-0.09
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.03	-0.03	-0.04
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.07	-0.08	-0.09
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.02	-0.02
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.01	-0.02	-0.02	-0.02
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.01	-0.02	-0.02	-0.02
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	-0.18	-0.38	-0.43	-0.53
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.03	-0.03
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.05	-0.10	-0.12	-0.15
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-1.51	-3.50	-4.04	-5.02
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.86	-1.96	-2.26	-2.81
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-1.49	-3.45	-3.99	-4.95
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	-1.49	-3.45	-3.99	-4.95
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.16	-0.37	-0.43	-0.53
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.23	-0.51	-0.58	-0.72
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.02	-0.02	-0.02
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.03	-0.06	-0.07	-0.09
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Peoria County; Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.03	-0.03
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.02
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.23	-0.47	-0.54	-0.67
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	-0.58	-1.31	-1.51	-1.88
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.71	-1.64	-1.90	-2.36
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.71	-1.64	-1.90	-2.36
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.41	-0.96	-1.12	-1.39
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.43	-1.00	-1.16	-1.45
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.44	-1.03	-1.19	-1.48
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	-0.01	-0.01
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.01	-0.02	-0.02
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.03	-0.07	-0.08	-0.10
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.11	-0.12	-0.14
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	-0.04	-0.09	-0.10	-0.12
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.69	-1.39	-1.57	-1.93
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.65	-1.30	-1.48	-1.81
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.02
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.19	-0.42	-0.48	-0.59
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.10	-0.11	-0.13
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.01	-0.02	-0.03	-0.03
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.05	-0.12	-0.14	-0.18
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.21	-0.49	-0.56	-0.70
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.05	-0.10	-0.12	-0.15
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.05	-0.06	-0.08
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.03	-0.03
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.03	-0.08	-0.09	-0.12
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-0.03	-0.08	-0.09	-0.12
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.03	-0.09	-0.11	-0.13
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-1.06	-2.84	-3.33	-4.18
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.09	-0.17	-0.19	-0.23
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.08	-0.15	-0.17	-0.21
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.10	-0.25	-0.30	-0.37
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.09	-0.24	-0.28	-0.35
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.16	-0.42	-0.50	-0.62
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.16	-0.42	-0.50	-0.62
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.16	-0.42	-0.49	-0.61
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	-0.06	-0.12	-0.14	-0.17
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.07	-0.08	-0.10
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.24	-0.53	-0.61	-0.76
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.14	-0.31	-0.36	-0.45
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.14	-0.31	-0.36	-0.45
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.27	-0.61	-0.70	-0.86
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.07	-0.17	-0.19	-0.24
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.21	-0.58	-0.68	-0.86
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.21	-0.58	-0.69	-0.86

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	-0.21	-0.58	-0.68	-0.86
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.46	-1.24	-1.46	-1.83
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.46	-1.24	-1.46	-1.83
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.46	-1.25	-1.47	-1.85
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.42	-1.14	-1.34	-1.69
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.38	-0.91	-1.05	-1.31
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-0.38	-0.91	-1.05	-1.31
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-0.38	-0.91	-1.06	-1.31
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.38	-0.91	-1.05	-1.31
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-0.38	-0.91	-1.05	-1.31
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.01	-0.01	-0.01
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.01	-0.01	-0.01
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.03	-0.07	-0.08	-0.10
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.54	-1.17	-1.34	-1.65
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.13	-0.27	-0.30	-0.37
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.03	-0.03
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.02	-0.03	-0.03
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.03	-0.03
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.03	-0.03
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.05	-0.12	-0.14	-0.18
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.07	-0.14	-0.16	-0.20
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.07	-0.15	-0.17	-0.21
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.04	-0.04	-0.06
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.14	-0.27	-0.30	-0.37
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.02	-0.03
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	-0.10	-0.22	-0.25	-0.31
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.44	-0.96	-1.10	-1.35
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.45	-0.98	-1.12	-1.39
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.19	-0.37	-0.41	-0.50
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.11	-0.20	-0.23	-0.28
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.03	-0.07	-0.09	-0.11
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.02
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.04	-0.10	-0.11	-0.14
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.02	-0.04	-0.04	-0.05
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.03	-0.03	-0.04
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.02
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.01	-0.02	-0.02
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	-0.10	-0.23	-0.27	-0.33
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.02
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.08	-0.14	-0.16	-0.19
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.04	-0.08	-0.09	-0.11
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.03	-0.06	-0.07	-0.08
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.02	-0.02
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.23	-0.42	-0.48	-0.58
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.05	-0.09	-0.10	-0.12
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.15	-0.30	-0.34	-0.42
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.04	-0.09	-0.10	-0.12
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.08	-0.19	-0.22	-0.27
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.08	-0.19	-0.22	-0.27
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.04	-0.08	-0.09	-0.11
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.03	-0.03	-0.04
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.03	-0.05	-0.06	-0.07
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.03	-0.06	-0.07	-0.08
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.05	-0.14	-0.16	-0.20
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	-0.58	-1.36	-1.58	-1.96
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.58	-1.36	-1.58	-1.96
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.02	-0.05	-0.06	-0.08
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.03	-0.04	-0.04

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.03	-0.04	-0.05
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.01	-0.02	-0.02
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.04	-0.11	-0.13	-0.16
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.06	-0.07	-0.08
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.02
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.06	-0.07	-0.08
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.03	-0.04	-0.05
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.04	-0.08	-0.09	-0.11
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.04	-0.04	-0.06

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

Table B-25. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—1,3-Butadiene, 2025

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.01	0.01
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.02	0.02	0.03	0.04
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.01	0.01
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.01	0.01	0.01	0.02
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.01	0.01
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.01	0.01	0.01	0.01
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.01	0.01	0.02	0.02
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.03	0.04	0.05	0.07
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.01	0.01	0.02
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.01	0.01	0.01
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.06	0.07	0.10	0.14
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.04	0.06	0.08	0.11
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.01	0.01	0.01
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	0.03	0.03	0.04	0.06
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.03	0.03	0.04	0.06
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.01	0.01	0.01	0.02
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.01	0.02	0.02	0.03
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.01	0.02

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	0.01	0.01
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	0.00	0.01
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	0.02	0.02	0.03	0.04
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.03	0.04	0.05	0.07
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.06	0.08	0.11	0.16
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.07	0.08	0.12	0.16
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.02	0.03	0.04	0.05
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.02	0.03	0.04	0.05
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.02	0.03	0.04	0.05
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.02	0.02
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.02	0.03	0.04	0.06
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.01	0.01	0.02	0.03
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.03	0.03	0.05	0.06
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.02	0.03	0.04	0.06

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.01	0.01
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.02	0.02	0.03	0.04
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	0.02	0.02	0.03	0.04
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.01	0.01	0.02
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.02	0.02
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.08	0.10	0.14	0.19
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.08	0.10	0.13	0.18
Delaware County, PA	PM <sub>2.5</sub> (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.01	0.01
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.04	0.05	0.06	0.09
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	0.03	0.03	0.05	0.07
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.04	0.05	0.06	0.09
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.02	0.03	0.03
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.04	0.05	0.07	0.10
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Detroit-Ann Arbor, MI	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.04	0.05	0.07	0.10
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.01	0.01	0.01	0.01
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.01
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	0.01	0.01	0.01
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.01	0.02	0.03	0.04
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.01	0.02	0.03	0.04
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Hancock County (Part) The city of Weirton, including Butler and Clay: Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.02	0.02

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.02	0.03
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.01	0.00	0.03	0.04
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	0.00	0.03	0.04
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.01
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.01
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.01
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.01
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.01
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.01	0.01	0.01
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	0.00	0.00	0.00
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.01	0.01	0.01	0.02
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.02	0.02
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.01
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.01	0.01	0.01
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.01	0.01	0.01
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.01
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	0.02	0.03	0.04	0.05
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.02	0.03	0.04	0.05

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.16	0.20	0.28	0.38
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.01	0.01	0.02	0.02
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	0.01	0.01	0.02	0.02
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	0.16	0.20	0.28	0.38
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	0.16	0.20	0.28	0.38
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	0.16	0.20	0.28	0.38
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	0.16	0.20	0.28	0.38
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	0.16	0.20	0.28	0.38
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	0.02	0.02	0.03
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.04	0.05	0.07	0.09
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.01	0.01	0.01
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.02	0.02
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.01	0.02	0.02	0.03
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.01	0.02	0.02	0.03
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.03	0.04	0.05	0.07
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.01
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.01	0.01	0.02
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.01	0.01
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.12	0.15	0.21	0.29
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.07	0.08	0.11	0.16
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.12	0.15	0.21	0.29
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	0.12	0.15	0.21	0.29
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	0.02	0.02	0.03
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	0.02	0.02	0.03
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Peoria County: Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.02	0.02
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	0.04	0.05	0.07	0.10
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.06	0.07	0.10	0.14
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.06	0.07	0.10	0.14
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	0.04	0.04	0.06	0.09
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.04	0.05	0.07	0.09
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.04	0.05	0.07	0.09
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.01
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.01
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.02	0.02	0.03	0.04
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.02	0.02	0.03	0.04
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.02	0.02	0.03
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	0.00	0.00	0.00
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	0.01	0.01	0.01
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.02	0.02	0.03	0.04
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.01	0.01
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.01
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	0.01	0.01	0.01
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	0.00	0.01	0.01	0.01
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.01	0.01	0.01	0.01
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.16	0.20	0.27	0.38
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.02	0.02	0.03
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.02	0.02	0.03
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.02	0.03	0.04	0.05
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.02	0.03	0.04	0.05
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.02	0.03	0.04	0.05
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.01
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.01	0.02	0.03	0.04
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.02	0.02
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.01	0.01	0.02	0.02
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.02	0.02	0.03	0.04
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.01	0.01	0.01	0.01
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.03	0.04	0.06	0.08
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.03	0.04	0.06	0.08

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	0.03	0.04	0.06	0.08
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.07	0.09	0.12	0.17
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.07	0.09	0.12	0.17
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.07	0.09	0.13	0.17
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.07	0.08	0.11	0.16
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.04	0.04	0.06	0.09
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	0.04	0.04	0.06	0.09
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	0.04	0.04	0.06	0.09
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.04	0.04	0.06	0.09
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	0.04	0.04	0.06	0.09
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.01
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.03	0.04	0.05	0.07
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.01	0.01	0.01
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.01	0.01	0.01
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.01	0.01
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.01	0.01
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.01	0.01	0.02
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.02	0.03	0.04	0.06
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.02	0.03	0.04	0.06
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	0.00	0.00
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.01	0.01
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.01	0.01	0.01
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.01	0.01	0.02
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Union County; LaGrande, OR	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Utah County, UT	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.01	0.01	0.01
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.01	0.01
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.01	0.01	0.01	0.02
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.01	0.01	0.01	0.02
Vermillion County; Part of Clinton Township, IN	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Walla Walla County; Wallula, WA	PM <sub>10</sub> (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.01	0.02
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	0.05	0.06	0.09	0.12
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.05	0.06	0.09	0.12
Washoe County; Reno planning area, NV	PM <sub>10</sub> (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.01

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.01	0.01
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

Table B-26. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—1,3-Butadiene, 2035

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	-0.01	-0.01
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.03	-0.04
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.02
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	-0.01	-0.01	-0.01
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.02
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.03	-0.04	-0.06
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.01	-0.06	-0.09	-0.12
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.05	-0.06	-0.09
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	0.00	-0.03	-0.04	-0.05
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.00	-0.03	-0.04	-0.05
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.01	-0.02	-0.03	-0.04
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	-0.01	-0.02	-0.03
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.02

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	-0.01	-0.01
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	0.00	-0.01
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.02	-0.02	-0.03
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.01	-0.03	-0.04	-0.06
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.08	-0.10	-0.15
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.02	-0.08	-0.11	-0.15
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.02	-0.03	-0.04
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	-0.02	-0.03	-0.05
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	-0.03	-0.03	-0.05
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.02
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.03	-0.04	-0.05
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	-0.01	-0.02	-0.03
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	-0.03	-0.04	-0.05
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	-0.03	-0.03	-0.05

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	-0.02	-0.03	-0.04
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	0.00	-0.02	-0.03	-0.04
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	-0.01	-0.01
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.02
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.02
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.02	-0.09	-0.12	-0.17
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.09	-0.12	-0.17
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	-0.01	-0.01
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.05	-0.06	-0.08
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.01	-0.04	-0.05	-0.07
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.01	-0.05	-0.06	-0.08
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.02	-0.02	-0.03
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.05	-0.06	-0.09
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	-0.01	-0.01
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.01	-0.05	-0.06	-0.09
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	-0.02	-0.02	-0.03
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.00	-0.02	-0.02	-0.03
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.02
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Hancock County (Part) The city of Weirton, including Butler and Clay: Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.02

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.02	-0.02
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.33	-0.70	-0.82	-1.06
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.33	-0.70	-0.82	-1.06
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	-0.01
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	-0.01
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	-0.01
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	0.00	0.00	0.00
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	-0.01	-0.01	-0.02
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.02
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	-0.01	-0.01
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	-0.01	-0.01
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	-0.03	-0.03	-0.05
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.03	-0.03	-0.05

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.03	-0.18	-0.23	-0.34
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	-0.01	-0.01	-0.02
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	0.00	-0.01	-0.01	-0.02
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.03	-0.18	-0.23	-0.34
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	-0.03	-0.18	-0.23	-0.34
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-0.03	-0.18	-0.23	-0.34
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-0.03	-0.18	-0.23	-0.34
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-0.03	-0.18	-0.23	-0.34
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.02	-0.03
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.01	-0.05	-0.07	-0.09
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.02
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	-0.01	-0.02	-0.03
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	-0.01	-0.02	-0.03
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.03	-0.04	-0.06
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.02
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	-0.01
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.02	-0.13	-0.18	-0.26
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.01	-0.07	-0.10	-0.14
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.02	-0.13	-0.18	-0.25
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	-0.02	-0.13	-0.18	-0.25
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.02	-0.02	-0.03
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.02	-0.02	-0.03
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Peoria County; Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.02
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	-0.01	-0.05	-0.06	-0.09
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.06	-0.08	-0.12
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.06	-0.08	-0.12
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.01	-0.05	-0.06	-0.09
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.01	-0.05	-0.07	-0.09
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.05	-0.07	-0.10
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	-0.01
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	-0.02	-0.03	-0.04
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	-0.02	-0.03	-0.04
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.02	-0.03
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	0.00	0.00	0.00
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	-0.01	-0.01	-0.01
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.02	-0.03	-0.04
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	-0.01
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	-0.01
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	-0.01	-0.01	-0.01
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	0.00	-0.01	-0.01	-0.01
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	-0.01	-0.01	-0.01
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.03	-0.18	-0.23	-0.34
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.02	-0.03
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.02	-0.03
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	-0.02	-0.03	-0.05
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	-0.02	-0.03	-0.05
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.02	-0.03	-0.04
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	-0.02	-0.02	-0.03
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.02
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.02
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.02	-0.03	-0.04
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.04	-0.05	-0.07
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.01	-0.04	-0.05	-0.07

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	-0.01	-0.04	-0.05	-0.07
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.08	-0.11	-0.15
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.08	-0.11	-0.15
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.08	-0.11	-0.15
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.07	-0.10	-0.14
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.01	-0.04	-0.05	-0.08
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-0.01	-0.04	-0.05	-0.08
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-0.01	-0.04	-0.05	-0.08
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.01	-0.04	-0.05	-0.08
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-0.01	-0.04	-0.05	-0.08
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	-0.01
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	-0.03	-0.04	-0.06
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	-0.01
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.02
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.03	-0.04	-0.06
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.01	-0.03	-0.04	-0.06
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	0.00	0.00
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	-0.01
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	-0.01	-0.01
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.02
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	-0.01
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	-0.01	-0.01	-0.02
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	-0.01	-0.01	-0.02
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	-0.01	-0.06	-0.07	-0.11
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.06	-0.07	-0.11
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	-0.01
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

Table B-27. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—1,3-Butadiene, 2050

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.02	-0.02	-0.02
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.08	-0.10	-0.12
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.03	-0.03	-0.04
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.01	-0.04	-0.05	-0.06
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	-0.01	-0.01
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.03	-0.04
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.03	-0.03	-0.04
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	-0.01	-0.01	-0.01
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.04	-0.05	-0.07
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.04	-0.14	-0.16	-0.20
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.03	-0.04	-0.04
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.03	-0.04
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.08	-0.27	-0.32	-0.41
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.06	-0.20	-0.24	-0.31
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	-0.04	-0.12	-0.14	-0.18
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.04	-0.12	-0.14	-0.18
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.02	-0.06	-0.07	-0.08
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.02	-0.02
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.01
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.02	-0.06	-0.07	-0.09
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.02	-0.02	-0.02
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.03	-0.04	-0.05

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	-0.02	-0.02	-0.02
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	-0.01	-0.02	-0.02
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.07	-0.09	-0.11
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.04	-0.13	-0.16	-0.20
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.10	-0.31	-0.37	-0.47
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.10	-0.32	-0.38	-0.48
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.10	-0.12	-0.15
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.03	-0.10	-0.12	-0.15
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.03	-0.11	-0.13	-0.16
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.04	-0.05	-0.06
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.11	-0.14	-0.17
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.02	-0.05	-0.07	-0.08
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.04	-0.12	-0.14	-0.18
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.03	-0.11	-0.13	-0.17

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.03	-0.03	-0.04
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.03	-0.09	-0.10	-0.13
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	-0.02	-0.08	-0.09	-0.12
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.03	-0.04	-0.05
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.04	-0.05	-0.06
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.11	-0.37	-0.44	-0.55
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.11	-0.36	-0.43	-0.54
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	-0.02	-0.02	-0.02
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.05	-0.18	-0.21	-0.26
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.04	-0.14	-0.16	-0.20
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.05	-0.18	-0.21	-0.26
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.07	-0.08	-0.11
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.06	-0.20	-0.24	-0.30
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.02
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.06	-0.20	-0.24	-0.30
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	-0.01
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.02	-0.03	-0.04
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.01	-0.02	-0.03	-0.03
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.02	-0.07	-0.08	-0.10
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.02	-0.07	-0.08	-0.10
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.03	-0.04
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Hancock County (Part) The city of Weirton, including Butler and Clay: Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.05	-0.05	-0.07

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.05	-0.06	-0.07
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.54	-1.14	-1.30	-1.60
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.53	-1.13	-1.29	-1.59
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.02
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.02
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.02
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.02
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	-0.01	-0.01	-0.02
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	-0.01	-0.01
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.03	-0.03
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	-0.01	-0.01	-0.01
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	-0.01	-0.01	-0.01
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	-0.01	-0.01	-0.01
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.01	-0.04	-0.04	-0.05
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.04	-0.05	-0.07
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.02
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.03	-0.03
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.02	-0.02	-0.03
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.03	-0.11	-0.13	-0.16
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.11	-0.13	-0.16

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.01
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.22	-0.73	-0.87	-1.11
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.01	-0.04	-0.05	-0.07
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-0.01	-0.04	-0.05	-0.07
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.22	-0.73	-0.87	-1.11
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	-0.22	-0.73	-0.87	-1.11
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-0.22	-0.73	-0.87	-1.11
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-0.22	-0.73	-0.87	-1.11
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-0.22	-0.73	-0.87	-1.11
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.06	-0.07	-0.09
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.02	-0.02
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	-0.01	-0.01
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.06	-0.19	-0.22	-0.28
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	-0.01
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.04	-0.05	-0.07
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.02	-0.06	-0.07	-0.09
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.02	-0.06	-0.07	-0.09
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.04	-0.14	-0.17	-0.21
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.02
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	-0.01	-0.01
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	-0.01	-0.01
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.04	-0.04	-0.06
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.02	-0.02
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.17	-0.57	-0.67	-0.85
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.09	-0.30	-0.36	-0.46
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.17	-0.56	-0.66	-0.84
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	-0.17	-0.56	-0.66	-0.84
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.06	-0.08	-0.10
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.07	-0.08	-0.10
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Peoria County; Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.04	-0.05	-0.07
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	-0.06	-0.19	-0.23	-0.29
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.08	-0.27	-0.32	-0.40
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.08	-0.27	-0.32	-0.40
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.06	-0.18	-0.22	-0.27
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.06	-0.19	-0.22	-0.28
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.06	-0.19	-0.23	-0.29
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	-0.01	-0.01	-0.02
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.03	-0.09	-0.10	-0.13
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.08	-0.09	-0.12
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.06	-0.07	-0.09
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	0.00	-0.01	-0.01
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.01	-0.02	-0.03	-0.03
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.03	-0.09	-0.10	-0.13
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	-0.02	-0.02	-0.02
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.02
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.01	-0.02	-0.03	-0.03
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-0.01	-0.02	-0.03	-0.03
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.01	-0.03	-0.03	-0.04
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.22	-0.73	-0.87	-1.10
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.06	-0.07	-0.09
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.06	-0.07	-0.09
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.03	-0.10	-0.12	-0.15
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.03	-0.10	-0.12	-0.15
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.03	-0.10	-0.12	-0.15
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.02
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.02	-0.07	-0.08	-0.11
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.04	-0.05	-0.06
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.01	-0.04	-0.05	-0.06
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.08	-0.10	-0.13
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.03	-0.04	-0.04
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.05	-0.16	-0.18	-0.23
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.05	-0.16	-0.19	-0.24

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	-0.05	-0.16	-0.18	-0.23
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.10	-0.33	-0.39	-0.50
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.10	-0.33	-0.39	-0.50
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.10	-0.33	-0.40	-0.50
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.09	-0.30	-0.36	-0.46
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.05	-0.17	-0.20	-0.25
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-0.05	-0.17	-0.20	-0.25
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-0.05	-0.17	-0.20	-0.25
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.05	-0.17	-0.20	-0.25
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-0.05	-0.17	-0.20	-0.25
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	-0.01	-0.01	-0.02
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.04	-0.13	-0.16	-0.20
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.03	-0.03
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.02	-0.03	-0.03
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	-0.01	-0.02	-0.02
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.02	-0.02
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	-0.01
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.03	-0.04	-0.05
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.04	-0.12	-0.14	-0.17
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.04	-0.12	-0.15	-0.18
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	-0.01	-0.01
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.02	-0.02
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.02	-0.02	-0.03
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	-0.01	-0.01
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.04	-0.04	-0.05
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.01
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	-0.01
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.03	-0.03
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.02	-0.02
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.01	-0.04	-0.05	-0.06
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.01	-0.04	-0.05	-0.06
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.03	-0.04	-0.05
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	-0.07	-0.23	-0.28	-0.35
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.07	-0.23	-0.28	-0.35
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	-0.01	-0.01	-0.02
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	-0.01	-0.01
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.02	-0.03	-0.04
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	-0.01	-0.01
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	-0.01

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-28. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Diesel Particulate Matter (DPM), 2025**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.12	-1.40	-1.54	-2.09
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.05	-0.06	-0.07	-0.09
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.06	-0.07	-0.08	-0.11
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.08	-0.10	-0.11	-0.15
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.42	-0.53	-0.58	-0.79
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.08	-0.10	-0.11	-0.14
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.24	-0.30	-0.33	-0.45
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.07	-0.08	-0.11
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.10	-0.12	-0.13	-0.18
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.21	-1.52	-1.67	-2.27
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.06	-0.07	-0.08	-0.11
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.07	-0.08	-0.09	-0.12
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.03	-0.03	-0.04
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.16	-0.20	-0.22	-0.30
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.02
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.54	-1.93	-2.12	-2.88
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.02	-0.03	-0.03
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.11	-0.13	-0.15	-0.20
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.14	-0.17	-0.19	-0.26
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.11	-0.14	-0.15	-0.20
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.06	-0.08	-0.08	-0.11
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.01
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.12	-0.15	-0.16	-0.22
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.12	-0.15	-0.16	-0.21
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.28	-0.35	-0.39	-0.52
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.08	-0.11	-0.12	-0.16
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	-0.39	-0.49	-0.54	-0.74
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.39	-0.49	-0.54	-0.74
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-6.92	-8.70	-9.55	-12.99
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.03	-0.03	-0.05
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.11	-0.13	-0.15	-0.20
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-0.88	-1.10	-1.21	-1.64
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.88	-1.10	-1.21	-1.64
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.37	-0.47	-0.52	-0.70
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.02
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.48	-0.60	-0.66	-0.90

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.05	-1.32	-1.45	-1.97
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.55	-0.69	-0.76	-1.03
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.01
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.03	-0.03	-0.04
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.05	-0.07	-0.07	-0.10
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.05	-0.07	-0.07	-0.10
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.03	-0.03	-0.04	-0.05
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.64	-0.81	-0.89	-1.21
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.06	-0.07	-0.08	-0.11
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	-0.05	-0.07	-0.07	-0.10
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.11	-0.14	-0.16	-0.21
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-9.49	-11.92	-13.08	-17.79
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-9.49	-11.93	-13.09	-17.80
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.03	-0.03	-0.04
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.15	-0.19	-0.21	-0.29
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.17	-0.22	-0.24	-0.32
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.22	-0.27	-0.30	-0.41
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.14	-0.18	-0.20	-0.27
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.80	-1.01	-1.11	-1.50
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.29	-0.36	-0.40	-0.54
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.94	-1.18	-1.30	-1.76
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.80	-1.01	-1.11	-1.50

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.19	-0.24	-0.27	-0.36
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.19	-0.24	-0.27	-0.36
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	-0.14	-0.18	-0.20	-0.26
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.33	-0.42	-0.46	-0.62
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-6.89	-8.66	-9.50	-12.93
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.34	-0.43	-0.47	-0.64
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.01
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.14	-0.18	-0.20	-0.27
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.76	-0.95	-1.05	-1.41
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.76	-0.95	-1.05	-1.41
Delaware County, PA	PM <sub>2.5</sub> (2012 Annual)	Maintenance, Moderate	100	0	-4.58	-5.76	-6.32	-8.60
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-3.69	-4.63	-5.09	-6.91
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-1.32	-1.66	-1.82	-2.48
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-3.69	-4.63	-5.09	-6.91
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	-0.56	-0.71	-0.77	-1.05
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.08	-2.62	-2.87	-3.91
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.35	-0.44	-0.48	-0.66
Detroit-Ann Arbor, MI	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-2.08	-2.62	-2.87	-3.91
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.46	-0.58	-0.63	-0.86
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.46	-0.58	-0.63	-0.86
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	-0.01	-0.01	-0.01	-0.02
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	-0.01	-0.01	-0.01	-0.02
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.06	-0.07	-0.08	-0.11
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	-6.59	-8.28	-9.09	-12.36
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.32	-0.40	-0.44	-0.59
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.46	-0.58	-0.64	-0.86
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.46	-0.58	-0.63	-0.86
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.02	-0.03	-0.03	-0.04
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.02	-0.03	-0.03	-0.04
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.03	-0.04	-0.04	-0.06
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.02	-0.02	-0.03
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.01
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.11	-0.14	-0.15	-0.20
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-0.14	-0.17	-0.19	-0.25
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.08	-0.10	-0.11	-0.15
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.08	-0.10	-0.11	-0.15
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	-3.91	-4.91	-5.38	-7.33
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.59	-0.74	-0.81	-1.11
Hancock County (Part) The city of Weirton, including Butler and Clay; Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.66	-0.83	-0.91	-1.24
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.06	-0.07	-0.09

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.03	-0.04	-0.04	-0.05
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.09	-0.11	-0.12	-0.17
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.10	-0.13	-0.14	-0.19
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-23.13	-29.06	-31.89	-43.38
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-23.10	-29.03	-31.85	-43.33
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.33	-0.41	-0.45	-0.61
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.33	-0.41	-0.45	-0.61
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.03	-0.03	-0.04	-0.05
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.03	-0.03	-0.04	-0.05
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.33	-0.41	-0.45	-0.61
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.34	-0.42	-0.46	-0.63
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.24	-0.30	-0.33	-0.45
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.16	-0.20	-0.21	-0.29
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.04	-0.05	-0.05	-0.07
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.56	-0.70	-0.77	-1.05
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.59	-0.74	-0.81	-1.11
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.55	-0.69	-0.76	-1.03
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.19	-0.23	-0.26	-0.35
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-3.93	-4.93	-5.41	-7.37
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-3.93	-4.93	-5.41	-7.37
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	0.00	0.00	0.00
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.08	-0.11	-0.12	-0.16
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.05	-0.07	-0.08	-0.10
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.01
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-6.90	-8.66	-9.51	-12.93
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.01
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-6.89	-8.66	-9.50	-12.93
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.02
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.01	-0.01	-0.01
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.05	-0.06	-0.06	-0.09
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.06	-0.06	-0.09
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.22	-0.28	-0.30	-0.41
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.22	-0.27	-0.30	-0.41

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.88	-1.10	-1.21	-1.64
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.01
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-2.71	-3.40	-3.73	-5.08
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.08	-0.10	-0.11	-0.14
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.29	-0.37	-0.40	-0.55
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-4.26	-5.35	-5.87	-7.97
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-3.99	-5.02	-5.51	-7.49
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-3.99	-5.02	-5.51	-7.49
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	-4.25	-5.34	-5.85	-7.95
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	-4.25	-5.34	-5.85	-7.95
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-4.26	-5.35	-5.87	-7.97
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-4.26	-5.35	-5.87	-7.97
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-4.26	-5.35	-5.87	-7.97
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.01	-0.02	-0.02
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.02
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.31	-1.65	-1.81	-2.46
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.22	-1.54	-1.69	-2.29
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.03	-0.03	-0.04
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.03	-0.03	-0.04	-0.05
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.01	-0.01	-0.01	-0.02

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.01	-0.01	-0.02
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.03	-0.04	-0.04	-0.05
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.46	-0.57	-0.63	-0.85
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.46	-0.58	-0.63	-0.86
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.11	-0.13	-0.15	-0.20
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.56	-1.96	-2.15	-2.92
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.11	-0.14	-0.15	-0.21
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.11	-0.14	-0.15	-0.21
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.05	-0.06	-0.06	-0.09
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.07	-0.09	-0.10	-0.13
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.06	-0.07	-0.09
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.05	-0.06	-0.07	-0.09
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.16	-0.20	-0.22	-0.30
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.16	-0.20	-0.22	-0.30
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.02	-0.03	-0.03
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.02	-0.02	-0.03
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.02
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.02	-0.02	-0.02	-0.03
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.02	-0.02	-0.02	-0.03
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.07	-0.09	-0.09	-0.13
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.05	-0.06	-0.07	-0.10
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.93	-1.17	-1.28	-1.73
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.87	-1.09	-1.20	-1.63
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.95	-1.19	-1.31	-1.76
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	-0.95	-1.19	-1.31	-1.76
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.13	-0.16	-0.18	-0.24
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.56	-0.71	-0.78	-1.05
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.02	-0.02	-0.02
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.05	-0.05	-0.07
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.04	-0.05	-0.05	-0.07
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.30	-0.37	-0.41	-0.56
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.30	-0.37	-0.41	-0.56
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.02
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.02

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Peoria County: Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.02	-0.02
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.02	-0.02
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-3.58	-4.50	-4.94	-6.72
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	-4.69	-5.90	-6.47	-8.80
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-4.73	-5.94	-6.52	-8.86
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-4.73	-5.94	-6.52	-8.86
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.03	-0.03	-0.04	-0.04
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.03	-0.03	-0.04	-0.05
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.03	-0.04	-0.05
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.04	-0.04	-0.06
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.16	-0.20	-0.22	-0.30
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	-0.08	-0.10	-0.11	-0.15
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-1.28	-1.61	-1.76	-2.40
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-1.25	-1.57	-1.73	-2.35
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.03	-0.04	-0.04	-0.06
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.04	-0.05	-0.05	-0.07
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.55	-0.69	-0.75	-1.03
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.39	-0.49	-0.54	-0.73
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.01	-1.27	-1.40	-1.90
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.03	-0.04	-0.05	-0.06
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.35	-0.44	-0.49	-0.66
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-0.35	-0.44	-0.49	-0.66
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.35	-0.44	-0.49	-0.66
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-4.26	-5.35	-5.87	-7.97
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.79	-0.99	-1.09	-1.48
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.06	-0.07	-0.08	-0.10
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.41	-0.52	-0.57	-0.78
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-5.45	-6.85	-7.51	-10.22
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-5.56	-6.98	-7.66	-10.43
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-5.56	-6.98	-7.66	-10.43
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-5.56	-6.98	-7.66	-10.43
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	-0.55	-0.69	-0.75	-1.03
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.56	-0.71	-0.78	-1.05
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.55	-0.69	-0.75	-1.03
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.55	-0.69	-0.75	-1.03
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.07	-0.08	-0.09	-0.12
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-4.14	-5.20	-5.71	-7.76
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.36	-0.46	-0.50	-0.68
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.39	-0.49	-0.54	-0.73

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	-0.39	-0.49	-0.54	-0.73
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-5.92	-7.44	-8.16	-11.10
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-5.92	-7.44	-8.16	-11.10
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-5.92	-7.44	-8.16	-11.10
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-5.87	-7.37	-8.09	-10.99
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-9.60	-12.06	-13.23	-18.00
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-9.60	-12.06	-13.23	-18.00
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-9.68	-12.17	-13.35	-18.16
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-9.59	-12.04	-13.22	-17.98
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-9.59	-12.04	-13.22	-17.98
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.38	-0.47	-0.52	-0.71
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.38	-0.47	-0.52	-0.71
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.04	-0.05	-0.05	-0.07
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.03	-0.04	-0.04	-0.06
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.04	-0.04	-0.06
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.02	-0.03	-0.03	-0.04
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.02	-0.03	-0.03	-0.04
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.03	-0.03	-0.04
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.55	-0.69	-0.75	-1.03
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.03	-0.04	-0.05
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.62	-2.04	-2.24	-3.05
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.10	-0.12	-0.14	-0.19
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	-1.29	-1.62	-1.78	-2.42
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.33	-1.67	-1.84	-2.50
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-1.33	-1.67	-1.84	-2.50
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.64	-0.80	-0.88	-1.19
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.64	-0.80	-0.88	-1.20
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.03	-0.04	-0.04	-0.06
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.03	-0.04	-0.04	-0.06
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.36	-0.46	-0.50	-0.68
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.01
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.33	-0.42	-0.46	-0.62
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.08	-0.09	-0.10	-0.14
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.01
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.47	-0.58	-0.64	-0.87
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.73	-0.92	-1.01	-1.38
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.03	-0.03	-0.04
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.46	-0.58	-0.64	-0.87
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.13	-0.17	-0.18	-0.25
Union County; LaGrande, OR	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.43	-0.54	-0.60	-0.81
Utah County, UT	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-0.58	-0.73	-0.80	-1.08
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-3.90	-4.90	-5.37	-7.31
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-3.90	-4.90	-5.37	-7.31
Vermillion County; Part of Clinton Township, IN	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.04	-0.04	-0.06
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.04	-0.05	-0.06	-0.08
Walla Walla County; Wallula, WA	PM <sub>10</sub> (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.02
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.46	-0.57	-0.63	-0.86
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.47	-0.58	-0.64	-0.87
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.47	-0.59	-0.65	-0.88
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.05	-0.06	-0.06	-0.09
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	-0.25	-0.32	-0.35	-0.46
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.25	-0.32	-0.35	-0.46
Washoe County; Reno planning area, NV	PM <sub>10</sub> (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.35	-0.44	-0.48	-0.65
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.05	-0.06	-0.06	-0.08
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.07	-0.08	-0.11
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.03	-0.03	-0.04	-0.05
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.03	-0.04	-0.05

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-29. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Diesel Particulate Matter (DPM), 2035**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.08	-0.14	-0.16	-0.19
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-7.34	-12.45	-13.49	-16.90
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.33	-0.56	-0.61	-0.76
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.38	-0.65	-0.70	-0.88
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.51	-0.86	-0.94	-1.17
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-2.76	-4.68	-5.07	-6.36
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.51	-0.86	-0.93	-1.17
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.59	-2.70	-2.92	-3.67
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.37	-0.63	-0.68	-0.85
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.63	-1.06	-1.15	-1.44
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-7.98	-13.52	-14.65	-18.36
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.39	-0.66	-0.71	-0.89
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.43	-0.73	-0.80	-1.00
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.14	-0.23	-0.25	-0.32
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.04	-1.76	-1.91	-2.39
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.08	-0.14	-0.16	-0.20
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-10.13	-17.18	-18.61	-23.31
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.12	-0.21	-0.22	-0.28
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.70	-1.19	-1.28	-1.61
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.90	-1.52	-1.65	-2.07
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.71	-1.20	-1.30	-1.63
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.40	-0.68	-0.73	-0.92
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.07	-0.08	-0.10
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.72	-1.27	-1.38	-1.70
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.73	-1.27	-1.37	-1.70
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-1.84	-3.13	-3.39	-4.24
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.55	-0.94	-1.02	-1.27
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	-2.57	-4.38	-4.74	-5.93
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-2.57	-4.38	-4.74	-5.93
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-45.66	-77.37	-83.81	-105.03
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.16	-0.27	-0.30	-0.37
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.70	-1.18	-1.28	-1.61
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-5.78	-9.79	-10.60	-13.29
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-5.78	-9.79	-10.60	-13.29
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-2.46	-4.18	-4.52	-5.67
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	-0.08	-0.14	-0.16	-0.19
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-3.15	-5.34	-5.79	-7.25

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-6.94	-11.76	-12.74	-15.97
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-3.64	-6.16	-6.68	-8.37
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.05	-0.09	-0.10	-0.12
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.15	-0.26	-0.28	-0.35
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.35	-0.59	-0.64	-0.80
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.35	-0.59	-0.64	-0.80
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.17	-0.29	-0.32	-0.40
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-4.24	-7.19	-7.78	-9.75
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.39	-0.66	-0.71	-0.89
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	-0.33	-0.57	-0.62	-0.77
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.73	-1.25	-1.36	-1.69
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-62.53	-105.98	-114.80	-143.85
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-62.55	-106.02	-114.84	-143.90
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.15	-0.26	-0.28	-0.35
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.01	-0.01	-0.02
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.11	-0.12	-0.15
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.99	-1.70	-1.84	-2.30
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-1.11	-1.90	-2.06	-2.57
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-1.42	-2.42	-2.63	-3.28
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.95	-1.61	-1.74	-2.18
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-5.28	-8.96	-9.71	-12.16
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-1.89	-3.21	-3.47	-4.35
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-6.18	-10.48	-11.35	-14.22
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-5.28	-8.95	-9.70	-12.15

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.27	-2.15	-2.33	-2.92
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-1.26	-2.15	-2.33	-2.92
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	-0.92	-1.57	-1.71	-2.13
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.19	-3.70	-4.01	-5.03
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-45.46	-77.02	-83.43	-104.55
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.25	-3.81	-4.13	-5.17
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.05	-0.08	-0.09	-0.11
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.95	-1.61	-1.74	-2.18
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-4.93	-8.41	-9.11	-11.39
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-4.93	-8.41	-9.11	-11.39
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-30.23	-51.22	-55.49	-69.54
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-24.29	-41.19	-44.62	-55.90
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-8.70	-14.76	-15.99	-20.03
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-24.29	-41.19	-44.62	-55.90
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	-3.69	-6.26	-6.78	-8.49
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-13.71	-23.26	-25.19	-31.56
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-2.31	-3.91	-4.24	-5.31
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-13.71	-23.26	-25.20	-31.56
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-3.02	-5.12	-5.55	-6.96
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-3.02	-5.12	-5.55	-6.96
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	-0.06	-0.09	-0.10	-0.13
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	-0.06	-0.09	-0.10	-0.13
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.39	-0.66	-0.71	-0.89
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	-43.47	-73.66	-79.79	-100.00
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-2.09	-3.54	-3.83	-4.80
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-3.04	-5.15	-5.58	-6.99
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-3.03	-5.13	-5.55	-6.96
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.16	-0.26	-0.29	-0.36
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.16	-0.26	-0.28	-0.36
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.20	-0.34	-0.36	-0.46
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.12	-0.20	-0.22	-0.27
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.04	-0.06	-0.07	-0.09
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.71	-1.20	-1.30	-1.63
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-0.90	-1.52	-1.64	-2.06
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.54	-0.92	-0.99	-1.24
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.54	-0.92	-0.99	-1.24
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	-25.76	-43.65	-47.28	-59.25
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-3.89	-6.60	-7.15	-8.96
Hancock County (Part) The city of Weirton, including Butler and Clay; Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-4.35	-7.37	-7.99	-10.01
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.31	-0.53	-0.58	-0.72

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.18	-0.30	-0.33	-0.41
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.58	-0.99	-1.07	-1.34
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.68	-1.16	-1.25	-1.57
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-152.51	-258.45	-279.95	-350.83
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-152.32	-258.12	-279.59	-350.38
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-2.14	-3.63	-3.94	-4.93
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.14	-3.63	-3.94	-4.93
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.18	-0.30	-0.32	-0.41
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.18	-0.30	-0.32	-0.41
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-2.14	-3.63	-3.94	-4.93
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.22	-3.76	-4.07	-5.11
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.58	-2.67	-2.90	-3.63
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-1.03	-1.74	-1.88	-2.36
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.25	-0.42	-0.45	-0.56
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-3.69	-6.24	-6.76	-8.48
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-3.89	-6.60	-7.15	-8.96
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-3.64	-6.16	-6.68	-8.37
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-1.23	-2.09	-2.26	-2.83
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-25.90	-43.89	-47.54	-59.58
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-25.90	-43.89	-47.54	-59.58
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.01	-0.01	-0.01
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.01	-0.02	-0.02	-0.02
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.55	-0.94	-1.02	-1.27
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.36	-0.61	-0.66	-0.83
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.05	-0.09	-0.09	-0.12
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-45.48	-77.06	-83.48	-104.62
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.04	-0.07	-0.08	-0.10
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-45.47	-77.04	-83.45	-104.59
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.01
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.07	-0.12	-0.13	-0.16
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.05	-0.09	-0.09	-0.12
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.30	-0.51	-0.55	-0.69
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.30	-0.51	-0.55	-0.69
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	-1.42	-2.42	-2.63	-3.28
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.42	-2.42	-2.63	-3.28

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.09	-0.16	-0.17	-0.22
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-5.78	-9.79	-10.60	-13.29
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.05	-0.09	-0.10	-0.12
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-17.85	-30.25	-32.77	-41.06
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.51	-0.86	-0.93	-1.17
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.93	-3.27	-3.54	-4.44
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-27.93	-47.42	-51.38	-64.33
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-26.34	-44.63	-48.34	-60.58
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-26.34	-44.63	-48.34	-60.58
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	-27.86	-47.31	-51.26	-64.17
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	-27.86	-47.31	-51.26	-64.17
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-27.93	-47.42	-51.38	-64.33
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-27.93	-47.42	-51.38	-64.33
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-27.93	-47.42	-51.38	-64.33
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.06	-0.11	-0.12	-0.15
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.08	-0.14	-0.16	-0.20
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-8.64	-14.64	-15.86	-19.87
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-8.06	-13.66	-14.80	-18.55
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.15	-0.26	-0.28	-0.35
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.14	-0.26	-0.28	-0.34
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.07	-0.12	-0.13	-0.16

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.07	-0.12	-0.13	-0.16
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.19	-0.33	-0.35	-0.44
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-3.00	-5.09	-5.51	-6.91
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-3.01	-5.11	-5.53	-6.93
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.69	-1.18	-1.28	-1.60
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-10.26	-17.41	-18.86	-23.62
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.72	-1.23	-1.33	-1.66
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.72	-1.23	-1.33	-1.66
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.30	-0.52	-0.56	-0.70
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.46	-0.78	-0.85	-1.06
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.32	-0.54	-0.58	-0.73
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.32	-0.54	-0.58	-0.73
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-1.04	-1.77	-1.91	-2.40
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-1.04	-1.77	-1.91	-2.40
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.03	-0.05	-0.05	-0.07
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.03	-0.05	-0.05	-0.07
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.12	-0.20	-0.22	-0.27
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.11	-0.18	-0.20	-0.25
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	-0.08	-0.14	-0.15	-0.19
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.10	-0.17	-0.19	-0.23
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.10	-0.17	-0.19	-0.23
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.01
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.45	-0.77	-0.83	-1.05
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.33	-0.57	-0.61	-0.77
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-6.02	-10.29	-11.15	-13.93
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-5.68	-9.67	-10.48	-13.10
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-6.13	-10.48	-11.35	-14.18
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	-6.13	-10.48	-11.35	-14.18
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.85	-1.44	-1.56	-1.95
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-3.69	-6.27	-6.79	-8.51
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.08	-0.13	-0.14	-0.18
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.08	-0.13	-0.14	-0.18
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.24	-0.41	-0.45	-0.56
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.24	-0.41	-0.45	-0.56
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-1.97	-3.34	-3.61	-4.53
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.97	-3.34	-3.61	-4.53
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.05	-0.09	-0.10	-0.13
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.04	-0.05	-0.06
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.05	-0.09	-0.10	-0.13

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Peoria County; Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.08	-0.13	-0.14	-0.18
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.08	-0.13	-0.14	-0.18
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-23.63	-40.03	-43.37	-54.35
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	-30.91	-52.40	-56.76	-71.12
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-31.12	-52.77	-57.16	-71.62
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-31.12	-52.77	-57.16	-71.62
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.14	-0.25	-0.28	-0.33
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.14	-0.26	-0.29	-0.34
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.14	-0.26	-0.29	-0.34
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.20	-0.34	-0.36	-0.46
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.06	-1.79	-1.94	-2.43
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	-0.52	-0.88	-0.95	-1.19
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-8.42	-14.28	-15.47	-19.39
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-8.25	-13.98	-15.15	-18.97
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.09	-0.15	-0.16	-0.20
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.19	-0.33	-0.36	-0.44
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.24	-0.40	-0.44	-0.55
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-3.60	-6.11	-6.62	-8.29
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-2.57	-4.37	-4.73	-5.92
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-6.69	-11.33	-12.27	-15.38
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.22	-0.38	-0.41	-0.51
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-2.33	-3.95	-4.28	-5.36
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-2.33	-3.95	-4.28	-5.36
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-2.33	-3.95	-4.28	-5.36
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-27.93	-47.42	-51.38	-64.33
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-5.20	-8.81	-9.54	-11.95
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.37	-0.62	-0.67	-0.84
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-2.72	-4.61	-5.00	-6.26
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-35.93	-60.89	-65.95	-82.65
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-36.65	-62.11	-67.27	-84.30
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-36.65	-62.11	-67.27	-84.30
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-36.65	-62.11	-67.28	-84.31
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	-3.61	-6.11	-6.62	-8.30
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-3.69	-6.27	-6.79	-8.51
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-3.60	-6.11	-6.62	-8.29
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-3.60	-6.11	-6.62	-8.29
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.41	-0.71	-0.77	-0.96
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-27.29	-46.24	-50.09	-62.77
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-2.36	-4.01	-4.35	-5.44
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-2.53	-4.31	-4.67	-5.84

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	-2.53	-4.31	-4.67	-5.84
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-38.99	-66.11	-71.62	-89.73
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-38.99	-66.11	-71.62	-89.73
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-38.99	-66.12	-71.62	-89.73
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-38.63	-65.49	-70.94	-88.88
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-63.26	-107.21	-116.13	-145.53
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-63.26	-107.21	-116.13	-145.53
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-63.83	-108.17	-117.17	-146.84
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-63.19	-107.10	-116.01	-145.37
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-63.19	-107.10	-116.01	-145.37
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.49	-4.21	-4.56	-5.72
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-2.49	-4.21	-4.56	-5.72
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.09	-0.15	-0.16	-0.20
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.24	-0.40	-0.44	-0.55
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.18	-0.32	-0.35	-0.43
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.19	-0.33	-0.36	-0.45
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.15	-0.26	-0.28	-0.35
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.15	-0.26	-0.28	-0.35
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.15	-0.26	-0.28	-0.35
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-3.60	-6.11	-6.62	-8.29
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.03	-0.05	-0.06	-0.07

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	-0.01	-0.01	-0.01
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.17	-0.29	-0.31	-0.39
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-10.71	-18.15	-19.66	-24.64
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.65	-1.11	-1.20	-1.50
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	-8.52	-14.44	-15.64	-19.60
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-8.77	-14.87	-16.11	-20.18
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-8.77	-14.87	-16.11	-20.18
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-4.20	-7.11	-7.70	-9.65
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-4.22	-7.14	-7.74	-9.70
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.19	-0.33	-0.36	-0.45
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.03	-0.03
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.01	-0.01	-0.01
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.21	-0.35	-0.38	-0.48
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-2.40	-4.06	-4.40	-5.51
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.05	-0.09	-0.10	-0.12
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-2.19	-3.71	-4.02	-5.03
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.00	0.00	0.01
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.50	-0.84	-0.91	-1.14
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.04	-0.08	-0.08	-0.10
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-3.07	-5.20	-5.63	-7.06
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-4.84	-8.21	-8.89	-11.14
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.15	-0.26	-0.28	-0.36
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-3.06	-5.19	-5.62	-7.05
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	-0.01	-0.01	-0.01
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.87	-1.47	-1.60	-2.00
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-2.85	-4.83	-5.23	-6.55
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-3.81	-6.46	-7.00	-8.77
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.01	-0.02	-0.02
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-25.70	-43.56	-47.18	-59.13
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-25.71	-43.56	-47.18	-59.13
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.21	-0.35	-0.38	-0.48
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.27	-0.46	-0.49	-0.62
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.08	-0.14	-0.16	-0.19
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-3.02	-5.11	-5.53	-6.93
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-3.07	-5.20	-5.63	-7.06
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-3.09	-5.23	-5.67	-7.10
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.30	-0.51	-0.56	-0.69
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	-1.61	-2.76	-2.99	-3.73
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-1.61	-2.76	-2.99	-3.73
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.03	-0.03

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.29	-3.88	-4.20	-5.26
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.29	-0.50	-0.54	-0.68
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.09	-0.16	-0.17	-0.22
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.39	-0.66	-0.72	-0.90
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.18	-0.30	-0.32	-0.40
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.18	-0.30	-0.32	-0.41

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-30. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Diesel Particulate Matter (DPM), 2050**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.10	-0.17	-0.19	-0.22
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-8.82	-14.95	-16.03	-19.34
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.40	-0.67	-0.72	-0.87
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.46	-0.78	-0.84	-1.01
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.61	-1.04	-1.11	-1.34
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-3.32	-5.63	-6.03	-7.28
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.61	-1.03	-1.11	-1.34
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.91	-3.24	-3.48	-4.19
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.45	-0.76	-0.81	-0.98
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.75	-1.28	-1.37	-1.65
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-9.58	-16.24	-17.41	-21.00
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.47	-0.79	-0.85	-1.02
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.52	-0.88	-0.95	-1.14
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.17	-0.28	-0.30	-0.36
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.25	-2.12	-2.27	-2.74
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.10	-0.17	-0.19	-0.22
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-12.17	-20.63	-22.12	-26.68
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.15	-0.25	-0.26	-0.32
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.84	-1.42	-1.53	-1.84
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-1.08	-1.83	-1.96	-2.37
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.85	-1.44	-1.55	-1.87
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.48	-0.81	-0.87	-1.05
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.09	-0.09	-0.11
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.89	-1.53	-1.64	-1.98
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.89	-1.53	-1.64	-1.97
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-2.22	-3.76	-4.03	-4.86
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.66	-1.13	-1.21	-1.46
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	-3.10	-5.26	-5.64	-6.80
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-3.10	-5.26	-5.64	-6.80
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-54.83	-92.89	-99.59	-120.17
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.19	-0.33	-0.35	-0.43
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.84	-1.42	-1.52	-1.84
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-6.94	-11.75	-12.60	-15.20
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-6.94	-11.75	-12.60	-15.20
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-2.96	-5.02	-5.38	-6.49
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	-0.10	-0.17	-0.19	-0.22
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-3.78	-6.41	-6.88	-8.30

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-8.34	-14.12	-15.14	-18.27
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-4.37	-7.40	-7.93	-9.57
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.06	-0.11	-0.11	-0.14
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.18	-0.31	-0.34	-0.40
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.42	-0.71	-0.76	-0.91
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.42	-0.71	-0.76	-0.91
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.21	-0.35	-0.38	-0.45
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-5.09	-8.63	-9.25	-11.16
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.47	-0.79	-0.85	-1.02
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	-0.40	-0.69	-0.74	-0.89
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.88	-1.51	-1.62	-1.95
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-75.10	-127.25	-136.43	-164.61
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-75.13	-127.29	-136.48	-164.67
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.18	-0.31	-0.34	-0.40
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.02	-0.02	-0.02
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.08	-0.13	-0.14	-0.17
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.20	-2.04	-2.19	-2.64
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-1.34	-2.29	-2.45	-2.96
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-1.71	-2.91	-3.12	-3.77
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.14	-1.94	-2.07	-2.50
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-6.35	-10.76	-11.54	-13.92
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-2.27	-3.85	-4.13	-4.98
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-7.42	-12.59	-13.50	-16.28
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-6.34	-10.75	-11.53	-13.91

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-1.52	-2.58	-2.77	-3.34
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-1.52	-2.59	-2.78	-3.35
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	-1.11	-1.89	-2.03	-2.45
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.62	-4.45	-4.77	-5.75
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-54.58	-92.46	-99.14	-119.62
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.03	-0.03
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.70	-4.57	-4.90	-5.92
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.06	-0.10	-0.11	-0.13
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.14	-1.94	-2.07	-2.50
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-5.95	-10.11	-10.84	-13.07
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-5.95	-10.11	-10.84	-13.07
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-36.30	-61.50	-65.94	-79.56
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-29.18	-49.45	-53.02	-63.97
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-10.46	-17.73	-19.01	-22.93
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-29.18	-49.45	-53.02	-63.97
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	-4.43	-7.51	-8.06	-9.72
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-16.48	-27.93	-29.95	-36.13
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-2.77	-4.69	-5.03	-6.07
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-16.48	-27.93	-29.95	-36.13
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-3.63	-6.15	-6.60	-7.96
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-3.63	-6.15	-6.60	-7.96
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	-0.07	-0.11	-0.12	-0.15
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	-0.07	-0.11	-0.12	-0.15
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.47	-0.79	-0.85	-1.02
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	-52.20	-88.43	-94.81	-114.40
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-2.51	-4.24	-4.55	-5.49
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-3.65	-6.18	-6.63	-8.00
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-3.63	-6.15	-6.60	-7.96
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.19	-0.32	-0.34	-0.41
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.19	-0.32	-0.34	-0.41
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.24	-0.40	-0.43	-0.52
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.14	-0.24	-0.26	-0.31
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.08	-0.08	-0.10
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.85	-1.44	-1.55	-1.87
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	-1.07	-1.82	-1.95	-2.36
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.65	-1.10	-1.18	-1.43
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.65	-1.10	-1.18	-1.43
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	-30.93	-52.40	-56.18	-67.79
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-4.68	-7.92	-8.49	-10.25
Hancock County (Part) The city of Weirton, including Butler and Clay: Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-5.23	-8.85	-9.49	-11.45
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.38	-0.64	-0.69	-0.83

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.21	-0.37	-0.39	-0.47
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.70	-1.19	-1.27	-1.53
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.82	-1.39	-1.49	-1.79
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-183.15	-310.30	-332.69	-401.41
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-182.91	-309.90	-332.26	-400.89
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-2.58	-4.36	-4.68	-5.64
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.58	-4.36	-4.68	-5.64
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.21	-0.36	-0.39	-0.46
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.21	-0.36	-0.39	-0.46
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-2.58	-4.36	-4.68	-5.64
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.67	-4.52	-4.84	-5.84
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-1.89	-3.21	-3.44	-4.15
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.03	-0.03	-0.03
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-1.23	-2.09	-2.24	-2.70
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.29	-0.50	-0.54	-0.65
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-4.43	-7.50	-8.04	-9.70
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-4.68	-7.92	-8.49	-10.25
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-4.37	-7.40	-7.93	-9.57
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-1.48	-2.51	-2.69	-3.24
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-31.10	-52.69	-56.49	-68.16
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-31.10	-52.69	-56.49	-68.16
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.01
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.01	-0.01	-0.01
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.01	-0.02	-0.03	-0.03
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.66	-1.13	-1.21	-1.46
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.43	-0.73	-0.79	-0.95
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.06	-0.10	-0.11	-0.13
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-54.61	-92.52	-99.20	-119.69
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.05	-0.09	-0.09	-0.11
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-54.60	-92.50	-99.17	-119.66
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.01
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.09	-0.14	-0.15	-0.19
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.06	-0.10	-0.11	-0.13
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.36	-0.61	-0.66	-0.79
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.36	-0.61	-0.66	-0.79
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	-1.72	-2.91	-3.13	-3.77
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.71	-2.91	-3.12	-3.77

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.11	-0.19	-0.20	-0.25
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-6.94	-11.75	-12.60	-15.20
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.06	-0.11	-0.11	-0.14
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-21.44	-36.32	-38.94	-46.98
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.61	-1.03	-1.11	-1.34
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-2.32	-3.92	-4.21	-5.07
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-33.59	-56.96	-61.08	-73.67
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-31.63	-53.58	-57.45	-69.31
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-31.63	-53.58	-57.45	-69.31
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	-33.51	-56.83	-60.93	-73.50
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	-33.51	-56.83	-60.93	-73.50
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-33.59	-56.96	-61.08	-73.67
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-33.59	-56.96	-61.08	-73.67
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-33.59	-56.96	-61.08	-73.67
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.08	-0.14	-0.15	-0.17
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.10	-0.17	-0.19	-0.22
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-10.37	-17.58	-18.85	-22.74
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-9.68	-16.40	-17.59	-21.22
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.18	-0.31	-0.33	-0.40
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.18	-0.32	-0.34	-0.41
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.03	-0.03	-0.03
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.09	-0.15	-0.16	-0.19

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.09	-0.15	-0.16	-0.19
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.23	-0.39	-0.42	-0.51
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-3.61	-6.11	-6.55	-7.90
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-3.62	-6.13	-6.57	-7.93
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.84	-1.42	-1.53	-1.84
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-12.33	-20.90	-22.41	-27.04
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.87	-1.47	-1.58	-1.90
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.87	-1.47	-1.58	-1.90
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.36	-0.62	-0.66	-0.80
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.55	-0.94	-1.01	-1.22
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.38	-0.65	-0.69	-0.84
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.38	-0.65	-0.69	-0.84
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-1.25	-2.12	-2.27	-2.74
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-1.25	-2.12	-2.27	-2.74
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.03	-0.06	-0.06	-0.08
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.03	-0.06	-0.06	-0.08
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.14	-0.24	-0.26	-0.31
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.13	-0.22	-0.23	-0.28
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	-0.10	-0.17	-0.18	-0.22
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.12	-0.21	-0.22	-0.27
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.12	-0.21	-0.22	-0.27
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.55	-0.92	-0.99	-1.20
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.40	-0.68	-0.73	-0.88
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-7.28	-12.38	-13.27	-16.00
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-6.84	-11.62	-12.46	-15.02
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-7.41	-12.60	-13.51	-16.28
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	-7.41	-12.60	-13.51	-16.28
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.02	-1.73	-1.86	-2.24
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-4.44	-7.53	-8.07	-9.74
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.09	-0.16	-0.17	-0.21
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.09	-0.16	-0.17	-0.21
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.29	-0.50	-0.53	-0.64
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.29	-0.50	-0.53	-0.64
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-2.36	-4.00	-4.29	-5.18
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.36	-4.00	-4.29	-5.18
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.07	-0.11	-0.12	-0.14
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.05	-0.06	-0.07
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.07	-0.11	-0.12	-0.14

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Peoria County; Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.09	-0.16	-0.17	-0.21
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.09	-0.16	-0.17	-0.20
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-28.37	-48.07	-51.54	-62.18
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	-37.13	-62.92	-67.46	-81.39
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-37.39	-63.36	-67.94	-81.96
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-37.39	-63.36	-67.94	-81.96
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.18	-0.31	-0.34	-0.40
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.18	-0.32	-0.35	-0.41
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.18	-0.32	-0.35	-0.41
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.24	-0.40	-0.43	-0.52
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-1.27	-2.15	-2.31	-2.78
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	-0.62	-1.05	-1.13	-1.36
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-10.12	-17.15	-18.39	-22.19
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-9.91	-16.79	-18.00	-21.72
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.11	-0.18	-0.19	-0.23
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.23	-0.40	-0.43	-0.51
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.28	-0.48	-0.51	-0.62
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-4.33	-7.33	-7.86	-9.49
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-3.09	-5.25	-5.62	-6.78
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-8.03	-13.60	-14.59	-17.60
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.27	-0.46	-0.49	-0.59
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-2.80	-4.74	-5.09	-6.14
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-2.80	-4.74	-5.09	-6.14
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-2.80	-4.74	-5.09	-6.14
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-33.59	-56.96	-61.08	-73.67
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-6.24	-10.57	-11.34	-13.68
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.44	-0.74	-0.80	-0.96
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-3.27	-5.54	-5.94	-7.17
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-43.15	-73.10	-78.37	-94.56
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-44.01	-74.56	-79.94	-96.46
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-44.01	-74.56	-79.94	-96.46
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-44.01	-74.56	-79.95	-96.46
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	-4.33	-7.34	-7.87	-9.49
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-4.44	-7.53	-8.07	-9.74
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-4.33	-7.34	-7.87	-9.49
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-4.33	-7.34	-7.87	-9.49
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.50	-0.86	-0.92	-1.11
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-32.77	-55.52	-59.52	-71.82
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-2.84	-4.82	-5.17	-6.24
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-3.05	-5.18	-5.56	-6.70

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	-3.05	-5.18	-5.56	-6.70
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-46.85	-79.39	-85.12	-102.69
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-46.85	-79.39	-85.12	-102.69
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-46.85	-79.39	-85.12	-102.70
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-46.40	-78.63	-84.31	-101.72
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-75.97	-128.72	-138.01	-166.51
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-75.97	-128.72	-138.01	-166.51
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-76.66	-129.88	-139.25	-168.01
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-75.89	-128.58	-137.86	-166.34
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-75.89	-128.58	-137.86	-166.34
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-2.98	-5.06	-5.42	-6.54
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-2.98	-5.06	-5.42	-6.54
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.11	-0.18	-0.19	-0.23
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.28	-0.48	-0.52	-0.62
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.22	-0.39	-0.42	-0.50
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.24	-0.40	-0.43	-0.52
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.18	-0.31	-0.33	-0.40
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.18	-0.31	-0.33	-0.40
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.18	-0.31	-0.33	-0.40
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-4.33	-7.33	-7.86	-9.49
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.04	-0.07	-0.07	-0.08

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.01	-0.01	-0.01	-0.01
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.01
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.20	-0.35	-0.37	-0.45
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-12.86	-21.79	-23.37	-28.19
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.78	-1.33	-1.42	-1.72
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	-10.23	-17.33	-18.59	-22.42
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-10.54	-17.86	-19.15	-23.10
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-10.54	-17.86	-19.15	-23.10
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-5.04	-8.54	-9.15	-11.05
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-5.06	-8.58	-9.20	-11.10
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.23	-0.40	-0.42	-0.51
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.03	-0.03	-0.04
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.01	-0.01	-0.01
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.25	-0.42	-0.45	-0.55
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	-0.01
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-2.88	-4.88	-5.23	-6.31
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	-0.06	-0.11	-0.11	-0.14
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-2.63	-4.45	-4.77	-5.76
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.60	-1.01	-1.09	-1.31
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.01	-0.01	-0.01
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.05	-0.09	-0.10	-0.12
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00



**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-3.69	-6.24	-6.69	-8.08
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-5.82	-9.85	-10.56	-12.75
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.19	-0.31	-0.34	-0.41
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-3.68	-6.23	-6.68	-8.06
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	-0.01	-0.01	-0.01	-0.01
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-1.05	-1.77	-1.90	-2.29
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-3.42	-5.80	-6.21	-7.50
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-4.58	-7.76	-8.32	-10.03
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.02	-0.02	-0.02
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-30.87	-52.29	-56.07	-67.65
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-30.87	-52.29	-56.07	-67.65
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.25	-0.42	-0.45	-0.55
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.32	-0.55	-0.59	-0.71
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.10	-0.17	-0.18	-0.22
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-3.62	-6.13	-6.58	-7.93
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-3.68	-6.24	-6.69	-8.08
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-3.71	-6.28	-6.73	-8.13
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.36	-0.62	-0.66	-0.80
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	-1.95	-3.32	-3.56	-4.29
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-1.95	-3.32	-3.56	-4.29
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.03	-0.03	-0.04

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-2.75	-4.66	-4.99	-6.02
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.35	-0.60	-0.64	-0.78
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	-0.11	-0.19	-0.21	-0.25
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.47	-0.80	-0.85	-1.03
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.21	-0.36	-0.38	-0.46
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.21	-0.36	-0.38	-0.46

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-31. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Formaldehyde, 2025**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.01	0.01
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.09	-0.08	-0.11
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.02	0.02
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.01	0.01	0.01	0.02
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.01
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.01	0.02
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.01	0.01	0.01	0.02
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.01	0.02	0.02	0.03
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.01
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.05	0.06	0.09	0.12
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.01	0.02	0.03
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.01	0.02	0.02
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.05	-0.05	-0.07
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.01
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.09	0.11	0.16	0.22
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.06	0.08	0.11	0.16
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	0.00	0.00
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	0.04	0.04	0.07	0.09
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.04	0.05	0.07	0.09
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.01	-0.01	-0.01	-0.01
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.01	0.01	0.02	0.02
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.01	0.01	0.01
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.02	0.02	0.03

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.01	0.01
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.01	0.01	0.01
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.01	-0.02	-0.02	-0.03
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	0.03	0.03	0.05	0.07
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.04	0.06	0.08	0.11
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.11	0.14	0.20	0.28
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.11	0.14	0.20	0.28
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.01	0.01
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.01
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.04	0.05	0.06	0.09
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.04	0.05	0.07	0.09
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.04	0.05	0.07	0.10
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.02	0.02	0.03	0.04
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.04	0.05	0.07	0.11
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.02	0.03	0.04	0.05
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.04	0.05	0.08	0.11
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.04	0.05	0.07	0.10

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.01	0.02
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.03	0.04	0.05	0.07
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	0.03	0.03	0.05	0.07
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.02	-0.02
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.02	0.02	0.03
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.02	0.02	0.03	0.04
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.05	0.05	0.10	0.15
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.05	0.05	0.10	0.15
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.01	0.01	0.01
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.05	-0.03	-0.04
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.04	-0.06	-0.05	-0.06
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.03	-0.05	-0.03	-0.04
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	0.02	0.02	0.03	0.04
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.06	0.07	0.11	0.15
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.06	0.07	0.11	0.15
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	-0.01
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	-0.01
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.01	-0.01	-0.01	-0.02
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.01	0.01	0.01	0.02
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	-0.01
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.01
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.01
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.01	0.01	0.01	0.02
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.02	0.03	0.04	0.06
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.02	0.03	0.04	0.06
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	-0.08	-0.11	-0.12	-0.16
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Hancock County (Part) The city of Weirton, including Butler and Clay: Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.01	0.02	0.03	0.04

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.02	0.02	0.03	0.05
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.03	0.02	0.06	0.09
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.03	0.02	0.06	0.10
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.01	0.01
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.01	0.01
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.01	0.01
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.01	0.01
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.01	0.01
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.02	-0.02	-0.03
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.01	0.01	0.01	0.02
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.01
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.01	-0.02	-0.02	-0.02
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.01	-0.02	-0.02	-0.02
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.01	0.02	0.02	0.03
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.02	0.02	0.03	0.04
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.01	0.01	0.01
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.01	0.01
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.01	0.01	0.01	0.02
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.01	0.02
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.01	0.01
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	0.04	0.05	0.07	0.10
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.04	0.05	0.07	0.10

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.01
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	-0.01
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.07	-0.11	-0.12	-0.16
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.25	0.32	0.45	0.64
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	0.00	0.01	0.01
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	0.00	0.00	0.01	0.01
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	0.25	0.32	0.45	0.64
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	0.25	0.32	0.45	0.64
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	0.25	0.32	0.45	0.64
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	0.25	0.32	0.45	0.64
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	0.25	0.32	0.45	0.64
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.02	0.03	0.04	0.05
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.01	0.01	0.01
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.07	0.08	0.12	0.16
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	0.01	0.01	0.02
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.01
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.02	0.02	0.03	0.04
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.02	0.03	0.04	0.05
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.02	0.03	0.04	0.05
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.05	0.07	0.09	0.13
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.01	0.01
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.01
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.02	0.02	0.03
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.01	0.01	0.01
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.21	0.26	0.37	0.52
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.11	0.14	0.20	0.28
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.20	0.26	0.36	0.51
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	0.20	0.26	0.36	0.51
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.02	0.03	0.04	0.06
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.02	0.02	0.03	0.05
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Peoria County; Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.02	0.02	0.03	0.04
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	0.07	0.08	0.12	0.17
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.09	0.12	0.17	0.23
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.09	0.12	0.17	0.23
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	0.06	0.08	0.11	0.16
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.07	0.08	0.12	0.17
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.07	0.09	0.12	0.17
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.01	0.01	0.01
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.09	-0.09	-0.13
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	-0.01	0.00	0.01
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	0.00	0.01
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.02	0.03	0.04	0.05
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	0.00	0.00	0.00
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.01	0.01	0.01	0.02
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.02	0.03	0.04	0.06
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.01	0.01
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.01	0.01	0.01
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.01	0.01	0.01	0.02
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	0.01	0.01	0.01	0.02
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.01	0.01	0.02	0.02
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.25	0.32	0.45	0.63
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.07	-0.10	-0.11	-0.15
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.03	-0.03	-0.04
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.02	0.03	0.04	0.06
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.01
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.02	0.02	0.03	0.05
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.02	0.02	0.03	0.05
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.02	0.02	0.03	0.05
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	0.00	-0.01
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.02	0.02	0.04	0.05
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.02	0.03
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.01	0.01	0.02	0.03
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.03	0.03	0.05	0.07
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.06	0.07	0.10	0.14
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.06	0.07	0.10	0.14

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	0.06	0.07	0.10	0.14
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.10	0.13	0.19	0.26
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.10	0.13	0.19	0.26
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.10	0.13	0.19	0.27
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.09	0.11	0.17	0.24
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.03	0.03	0.06	0.08
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	0.03	0.03	0.06	0.08
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	0.03	0.03	0.06	0.08
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.03	0.03	0.06	0.08
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	0.03	0.03	0.06	0.08
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.02	-0.02	-0.02
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.02	-0.02	-0.02
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.01	0.01	0.01
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.05	0.06	0.09	0.12
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.01	0.02
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	0.01	0.01	0.02
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	0.01	0.01	0.01	0.01
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.01	0.01	0.01	0.01
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.01
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.02	-0.03
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.01	0.02	0.03
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.04	0.05	0.07	0.10
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.04	0.05	0.07	0.10
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.00	0.00	0.00	-0.01
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.01	0.01
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.01	0.01	0.01
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.01	-0.02	-0.02
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	0.01	0.02	0.02	0.03
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00



**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.02
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.02
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.01
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.04	-0.04	-0.05
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.04	-0.04	-0.06
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.01	0.01
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.01
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.01
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.02	0.02
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	0.08	0.10	0.14	0.20
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.08	0.10	0.14	0.20
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.01	0.01	0.01
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.01	0.01	0.02
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.01	0.01
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.01
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.01	0.01
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-32. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Formaldehyde, 2035**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.49	-0.99	-1.14	-1.46
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.02	-0.02	-0.03
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.01	-0.01	-0.02
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.04	-0.04	-0.05
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.05	-0.10	-0.12	-0.15
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.03	-0.04	-0.05
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.04	-0.08	-0.09	-0.12
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.03	-0.04	-0.05
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.04	-0.04	-0.05
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.02	-0.05	-0.06	-0.07
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.01	-0.02	-0.03	-0.04
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.19	-0.38	-0.43	-0.55
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.03	-0.06	-0.07	-0.09
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.05	-0.19	-0.23	-0.29
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.06	-0.17	-0.21	-0.27
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.06	-0.12	-0.14	-0.17
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	-0.03	-0.10	-0.11	-0.15
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.03	-0.10	-0.11	-0.15
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.11	-0.22	-0.26	-0.33
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.02	-0.03	-0.03
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.08	-0.17	-0.20	-0.26
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	-0.01

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.03	-0.03
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	-0.01	-0.01
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.01	-0.02	-0.02	-0.03
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.10	-0.21	-0.24	-0.30
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.02	-0.02
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.01	-0.06	-0.08	-0.10
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.03	-0.04	-0.06	-0.08
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.03	-0.04	-0.06	-0.08
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	-0.01	-0.01
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	-0.01	-0.01
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	-0.01	-0.01	-0.02
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.01	-0.01	-0.02	-0.02
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.01	-0.01	-0.01	-0.02
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	-0.01	-0.01
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	-0.02	-0.02	-0.03
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.01	-0.01	-0.01	-0.01
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	-0.03	-0.05	-0.06
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.01	-0.01	-0.02	-0.03

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.02	-0.02	-0.03
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	-0.04	-0.05	-0.06
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	-0.01	-0.04	-0.04	-0.06
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.12	-0.13	-0.17
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	-0.01	-0.01
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.46	-1.02	-1.19	-1.52
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.46	-1.02	-1.19	-1.52
Delaware County, PA	PM <sub>2.5</sub> (2012 Annual)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.52	-1.08	-1.24	-1.59
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.49	-1.00	-1.15	-1.47
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.52	-1.08	-1.24	-1.59
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	-0.05	-0.11	-0.13	-0.17
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.06	-0.18	-0.22	-0.28
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.03	-0.07	-0.08	-0.10
Detroit-Ann Arbor, MI	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.06	-0.18	-0.22	-0.28
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.03	-0.04	-0.05
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.02	-0.03	-0.04	-0.05
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.06	-0.12	-0.13	-0.17
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.01	-0.04	-0.04	-0.06
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.03	-0.04	-0.05
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	-0.01
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.03	-0.06	-0.07	-0.09
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	-0.02	-0.02	-0.03
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	0.00	-0.02	-0.02	-0.03
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	-0.50	-0.99	-1.14	-1.45
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Hancock County (Part) The city of Weirton, including Butler and Clay: Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.03	-0.03	-0.04
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.03	-0.04	-0.05

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.00	-0.01	-0.01
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.49	-1.07	-1.24	-1.59
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.46	-1.01	-1.17	-1.50
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.02
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.02
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	-0.01	-0.01	-0.02
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.12	-0.13	-0.17
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.10	-0.20	-0.22	-0.29
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.02	-0.02	-0.03
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	-0.01	-0.01	-0.01
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.02	-0.03	-0.04	-0.05
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.13	-0.15	-0.19
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.07	-0.14	-0.16	-0.20
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.07	-0.14	-0.16	-0.20
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	0.00	-0.01	-0.01
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.02
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.02	-0.02
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.02
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.02	-0.02	-0.03
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	0.01	-0.01	-0.01	-0.02
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	-0.01	-0.01	-0.02

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.02	-0.03	-0.04	-0.05
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.44	-0.87	-1.00	-1.28
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.03	-0.29	-0.37	-0.48
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.07	-0.15	-0.18	-0.22
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-0.07	-0.15	-0.18	-0.22
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.03	-0.29	-0.37	-0.48
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	-0.03	-0.29	-0.37	-0.48
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-0.03	-0.29	-0.37	-0.48
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-0.03	-0.29	-0.37	-0.48
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-0.03	-0.29	-0.37	-0.48
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.02
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.02
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.02	-0.01	-0.02	-0.03
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.02	-0.02
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.03	-0.07	-0.08	-0.10
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.00	-0.01	-0.01	-0.02
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.01	0.00	-0.01	-0.01
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	-0.02	-0.03	-0.04
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	-0.01	-0.01
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	0.05	-0.09	-0.13	-0.17
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.02	-0.06	-0.08	-0.10
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.05	-0.09	-0.13	-0.17
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	0.05	-0.09	-0.13	-0.17
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	0.00	-0.01	-0.01
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.07	-0.09	-0.11
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.01	-0.01	-0.02
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Peoria County; Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.02	-0.03	-0.03
Philadelphia-Wilmington, PA-NJ-DE	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	-0.01	-0.08	-0.10	-0.13
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.10	-0.12	-0.16
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.10	-0.12	-0.16
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	0.02	-0.01	-0.02	-0.03
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.02	-0.01	-0.02	-0.03
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.02	-0.01	-0.02	-0.03
Pierce County; Tacoma, WA	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Ajo planning area, AZ	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM <sub>10</sub> (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal and Gila Counties; Payson, AZ	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal County (part); West Pinal, AZ	PM <sub>10</sub> (1987 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Pitkin County; Aspen, CO	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-0.35	-0.69	-0.80	-1.01
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	-0.02	-0.04	-0.04	-0.05
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.18	-0.39	-0.45	-0.57
Pittsburgh-Beaver Valley, PA	PM <sub>2.5</sub> (2006 24-hour)	Maintenance, Moderate	100	0	-0.16	-0.34	-0.40	-0.51
Plumas County, CA	PM <sub>2.5</sub> (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	0.00	-0.01	-0.01
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM <sub>10</sub> (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	0.00	0.00	0.00
Provo, UT	PM <sub>2.5</sub> (2006 24-hour)	Nonattainment, Serious	70	0	-0.01	-0.03	-0.03	-0.04
Prowers County; Lamar, CO	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.04	-0.10	-0.12	-0.15
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.02	-0.04	-0.05	-0.06
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.00	-0.01	-0.02	-0.02
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	0.00	-0.01	-0.02	-0.02
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	-0.01	-0.02	-0.02
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.03	-0.29	-0.37	-0.48
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.42	-0.83	-0.95	-1.21
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.11	-0.22	-0.25	-0.32
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.02	-0.02	-0.03
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.12	-0.25	-0.29	-0.37
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.11	-0.25	-0.30	-0.38
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.11	-0.25	-0.30	-0.38
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.11	-0.25	-0.30	-0.38
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.07	-0.08	-0.10
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.03	-0.07	-0.09	-0.11
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.07	-0.09	-0.11
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.03	-0.07	-0.09	-0.11
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.07	-0.08	-0.10
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.07	-0.15	-0.17	-0.22
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.01	-0.02	-0.03	-0.04
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	0.01	-0.02	-0.03	-0.04

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	0.01	-0.02	-0.03	-0.04
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.08	-0.27	-0.32	-0.41
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.08	-0.27	-0.32	-0.41
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.08	-0.27	-0.32	-0.41
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.08	-0.26	-0.32	-0.41
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.18	-0.40	-0.47	-0.60
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-0.18	-0.40	-0.47	-0.60
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-0.18	-0.41	-0.48	-0.61
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.18	-0.40	-0.47	-0.60
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-0.18	-0.40	-0.47	-0.60
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.06	-0.12	-0.14	-0.18
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.06	-0.12	-0.14	-0.18
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	-0.01	-0.01
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.02	-0.01	-0.02	-0.02
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.03	-0.03	-0.04
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.08	-0.16	-0.18	-0.23
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.02	-0.03
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.01	-0.02	-0.03	-0.04
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	0.01	-0.02	-0.03	-0.04
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.03	-0.03	-0.04
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.03	-0.06	-0.07	-0.09
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	-0.01
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.02	-0.03	-0.04
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.01	-0.03	-0.03	-0.04
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.06	-0.12	-0.13	-0.17
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.05	-0.09	-0.10	-0.13
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.05	-0.10	-0.11	-0.14
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.04	-0.08	-0.09	-0.12
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.02
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.15	-0.29	-0.33	-0.43
Union County; LaGrande, OR	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.17	-0.33	-0.38	-0.48
Utah County, UT	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.10	-0.12	-0.15
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.08	-0.16	-0.19	-0.24
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.08	-0.16	-0.19	-0.24
Vermillion County; Part of Clinton Township, IN	PM <sub>10</sub> (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.02
Walla Walla County; Wallula, WA	PM <sub>10</sub> (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.02
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.02	-0.02
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.02	-0.02
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.02	-0.03	-0.03
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	-0.01	-0.09	-0.11	-0.15
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.09	-0.11	-0.15
Washoe County; Reno planning area, NV	PM <sub>10</sub> (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.06	-0.07	-0.09
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.02	-0.02	-0.03
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

**Table B-33. Changes in Emissions from U.S. Passenger Cars and Light Trucks by Nonattainment or Maintenance Area and Alternative, Direct and Indirect Impacts—Formaldehyde, 2050**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Ada County; Boise, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.03
Adams, Denver, and Boulder Counties; Denver Metropolitan area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.72	-1.40	-1.58	-1.92
Ajo, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Albuquerque Area, NM	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.06	-0.06	-0.08
Allegan County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.02	-0.02	-0.03
Morenci (Greenlee County), AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Allegheny County Air Basin: Hazelwood monitor, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.03	-0.05	-0.06	-0.07
Allegheny County, PA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	-0.08	-0.18	-0.21	-0.25
Allegheny County; The area including Liberty, Lincoln, Port Vue, and Glassport Boroughs and the City of Clairton, PA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.05	-0.05	-0.06
Allegheny, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.06	-0.11	-0.13	-0.16
Allentown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.07	-0.08	-0.10
Allentown-Bethlehem-Easton, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.03	-0.08	-0.09	-0.11
Alton Township, IL	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Amador County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	-0.01
Anchorage Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	-0.01	-0.01	-0.01
Anchorage; Eagle River, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Anne Arundel County and Baltimore County, MD	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.05	-0.11	-0.13	-0.16
AQCR 012: Portions of Grant County, NM	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 109-Millinocket, ME	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.02	-0.02
AQCR 131: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties (Minneapolis-St. Paul), MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.05	-0.18	-0.21	-0.27
AQCR 237: Brown County: Green Bay subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
AQCR 238: Marathon County: Rothschild subcity area, Rib Mountain, Weston, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
AQCR 238: Oneida County: Rhinelander subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
AQCR 239: Milwaukee County: Milwaukee subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.04	-0.04	-0.06
AQCR 240: Dane County: Madison subcity area, WI	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.03	-0.03	-0.04
Archuleta County; Pagosa Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.27	-0.50	-0.56	-0.68
Armstrong County: Madison Twp, Mahoning Twp, Boggs Twp, Washington Twp, Pine Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.04	-0.08	-0.09	-0.11
Aroostock County; City of Presque Isle, ME	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Atlanta, GA	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	-0.21	-0.55	-0.65	-0.81
Atlanta, GA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.18	-0.46	-0.54	-0.67
Atlantic City Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Bakersfield Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	-0.09	-0.18	-0.20	-0.25
Baltimore Area, MD	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.01	-0.01	-0.02
Baltimore, MD	Ozone (2008 8-hour)	Nonattainment, Moderate	50	0	-0.10	-0.26	-0.30	-0.38
Baltimore, MD	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.10	-0.26	-0.30	-0.38
Baton Rouge, LA	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.17	-0.34	-0.38	-0.47
Beaver, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Benton County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Berrien County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.04	-0.05	-0.06
Billings Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Billings, MT	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Birmingham, AL	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.14	-0.29	-0.34	-0.41
Boise-Northern Ada County Area, ID	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
Bonner County; The Sandpoint Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Boston Area, MA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.04	-0.05	-0.06

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Boyd County (part), KY	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.03	-0.03	-0.04
Brooke; Follansbee area, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Burlington Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Butte County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.02	-0.02	-0.02
Calaveras County, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	-0.01
Calaveras County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	-0.01
Campbell-Clermont Counties, KY-OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Canton-Massillon, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.02	-0.04	-0.05	-0.06
Central New Hampshire, NH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Central Steptoe Valley, NV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Charleston, WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.15	-0.28	-0.32	-0.39
Charlotte Area, NC	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.10	-0.12	-0.15
Charlotte-Rock Hill, NC-SC	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.08	-0.23	-0.28	-0.35
Chicago, IL-IN-WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.11	-0.40	-0.48	-0.60
Chicago-Naperville, IL-IN-WI	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.12	-0.41	-0.48	-0.61
Chico (Butte County), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.02	-0.02	-0.02
Chico Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	-0.01
Chico, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Cincinnati, OH-KY	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.12	-0.15	-0.19
Cincinnati, OH-KY-IN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.04	-0.13	-0.15	-0.20
Clark County; Las Vegas planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.04	-0.13	-0.16	-0.20
Cleveland Area, OH	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.05	-0.06	-0.08
Cleveland, OH	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.04	-0.15	-0.18	-0.23
Cleveland, OH	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.02	-0.07	-0.08	-0.11
Cleveland-Akron-Lorain, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.06	-0.18	-0.22	-0.27
Cleveland-Akron-Lorain, OH	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.04	-0.14	-0.17	-0.22

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Cochise County; Paul Spur/Douglas planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Colorado Springs Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.05	-0.06	-0.08
Columbus, OH	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.05	-0.15	-0.17	-0.22
Columbus, OH	Ozone (2015 8-hour)	Maintenance, Marginal	100	0	-0.05	-0.14	-0.16	-0.20
Cook County; Lyons Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Cook County; Southeast Chicago, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Coshocton County; Franklin Township, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Coso Junction, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.08	-0.15	-0.17	-0.21
Cuyahoga County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.04	-0.05	-0.06
Cuyahoga County, OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.05	-0.06	-0.08
Dallas-Fort Worth, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.82	-1.77	-2.02	-2.48
Dallas-Fort Worth, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.82	-1.76	-2.01	-2.47
Delaware County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	-0.02	-0.05	-0.05	-0.07
Denver Metro/North Front Range, CO	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.81	-1.62	-1.83	-2.24
Denver-Boulder Area, CO	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.74	-1.47	-1.66	-2.03
Denver-Boulder-Greeley-Ft Collins-Loveland, CO	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.81	-1.62	-1.83	-2.24
Detroit Area, MI	CO (1971 8-hour)	Maintenance, --	100	0	-0.10	-0.23	-0.26	-0.32
Detroit, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.19	-0.47	-0.54	-0.68
Detroit, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.05	-0.10	-0.11	-0.14
Detroit-Ann Arbor, MI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.19	-0.47	-0.54	-0.68
Doña Ana County (Sunland Park Area), NM	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.05	-0.05	-0.06
Doña Ana County; Anthony, NM	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.02	-0.05	-0.05	-0.06
Door Count-Revised, WI	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Door County, WI	Ozone (2015 8-hour)	Maintenance, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Douglas, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Dukes County, MA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Duluth Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
East Chicago Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.02
East Helena Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
East Kern County Area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.08	-0.15	-0.17	-0.21
El Paso County, TX	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.03	-0.08	-0.09	-0.11
El Paso, TX	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.05	-0.05	-0.06
Eugene-Springfield Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.02
Evangeline Parish (Partial), LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Fairbanks Area, AK	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Fairbanks, AK	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	0.00	0.00	0.00	0.00
Flathead County; Columbia Falls and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Kalispell and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Flathead County; Whitefish and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Fort Collins Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.02	-0.02
Freehold Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Freestone and Anderson Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.05	-0.08	-0.10	-0.12
Fremont County; Canon City Area, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Fresno Area, CA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.01	-0.04	-0.04	-0.05
Grants Pass Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Great Falls Area, MT	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Greater Connecticut, CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.03	-0.10	-0.12	-0.15
Greater Connecticut, CT	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.03	-0.10	-0.12	-0.15
Greeley Area, CO	CO (1971 8-hour)	Maintenance, --	100	0	-0.70	-1.33	-1.49	-1.81
Hancock and Brooke Counties (Part); The city of Weirton, WV	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Hancock County (Part) The city of Weirton, including Butler and Clay: Magisterial Districts, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.04	-0.04	-0.05
Harrisburg-Lebanon-Carlisle-York, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.03	-0.09	-0.11	-0.14

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Hartford-New Britain-Middletown Area, CT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.06	-0.07	-0.09
Hayden, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hayden, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Hillsborough County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Hillsborough-Polk County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Houston-Galveston-Brazoria, TX	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.84	-1.76	-2.01	-2.47
Houston-Galveston-Brazoria, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.80	-1.68	-1.91	-2.35
Humphreys County; (part) TVA Johnsonville, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Huntington, IN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Imperial County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.01	-0.03	-0.03	-0.04
Imperial County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.03	-0.03	-0.04
Imperial County, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.02	-0.02
Imperial County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.02	-0.02
Imperial County; Imperial Valley planning area, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.01	-0.03	-0.03	-0.04
Indian Wells, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.08	-0.15	-0.17	-0.21
Indiana, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.14	-0.26	-0.30	-0.36
Indianapolis Area, IN	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Indianapolis, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.02	-0.05	-0.05	-0.07
Inyo County; Owens Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.01	-0.01	-0.01	-0.01
Jackson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
Jackson County; Medford-Ashland (including White City), OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Jamestown, NY	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.02	-0.05	-0.06	-0.07
Jefferson County, KY	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Jefferson County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	-0.01
Jefferson County; (part) Steubenville & Mingo Junction, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Jefferson County; (part), OH	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Johnstown, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.09	-0.18	-0.20	-0.24
Josephine County; Grants Pass, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00



**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Juneau; Mendenhall Valley area, AK	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Kern County (Eastern Kern), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.10	-0.19	-0.21	-0.26
Kern County (Eastern Kern), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.10	-0.19	-0.21	-0.26
King County; Kent, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
King County; Seattle, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath County; Klamath Falls, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Klamath Falls Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Klamath Falls, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	-0.01
Knoxville, TN	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.01	-0.05	-0.06	-0.07
Knoxville-Sevierville-La Follette, TN	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.06	-0.07	-0.09
La Porte County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Lake County (part); Lakeview, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County, OH	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.01	-0.02	-0.02
Lake County: (part), IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.04	-0.04	-0.05
Lake County; (part) Eastlake, Timberlake, Lakeline, Willoughby, Mentor, OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake County; Cities of East Chicago, Hammond, Whiting, and Gary, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.03	-0.03	-0.04
Lake County; Polson, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake County; Ronan, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lake Tahoe Nevada Area, NV	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe North Shore Area, CA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Lake Tahoe South Shore Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Lancaster, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.02	-0.05	-0.06	-0.07
Lancaster, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.02	-0.05	-0.06	-0.07
Lane County (part); Oakridge, OR	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Lane County; Eugene/Springfield, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.02
Las Vegas Area, NV	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.04	-0.13	-0.16	-0.20
Las Vegas, NV	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.04	-0.13	-0.16	-0.20

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
LaSalle County; Oglesby, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Laurel Area, MT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Lebanon County, PA	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Lemont, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.01	-0.02	-0.02
Liberty-Clairton, PA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.02	-0.05	-0.05	-0.06
Lincoln County; Libby and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Logan, UT-ID	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Longmont Area, CO	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.62	-1.16	-1.30	-1.58
Lorain County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Los Angeles, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.41	-1.22	-1.44	-1.81
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.12	-0.25	-0.28	-0.35
Los Angeles-San Bernardino Counties (West Mojave Desert), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-0.12	-0.25	-0.28	-0.35
Los Angeles-South Coast Air Basin Area, CA	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.41	-1.22	-1.44	-1.80
Los Angeles-South Coast Air Basin Area, CA	NO <sub>2</sub> (1971 Annual)	Maintenance, --	100	0	-0.41	-1.22	-1.44	-1.80
Los Angeles-South Coast Air Basin, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-0.41	-1.22	-1.44	-1.81
Los Angeles-South Coast Air Basin, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-0.41	-1.22	-1.44	-1.81
Los Angeles-South Coast Air Basin, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-0.41	-1.22	-1.44	-1.81
Louisville, KY-IN	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.08	-0.10	-0.12
Lowell Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Lucas County (part), OH	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.03	-0.04	-0.05
Madison County; Granite City Township and Nameoki Township, IL	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Manchester Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Manitowoc County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	-0.01
Maricopa and Pinal Counties; Phoenix planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.06	-0.21	-0.26	-0.33
Marion County: Lawrence, Washington, and Warrant Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.02	-0.04	-0.05	-0.06
Mariposa County, CA	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Mariposa County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Marshall, WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.05	-0.09	-0.10	-0.12
Medford Area, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	-0.01	-0.01
Memphis Area, TN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.06	-0.07	-0.09
Memphis, TN-MS-AR	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.02	-0.08	-0.09	-0.12
Miami, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Miami, AZ	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Milwaukee-Racine, WI	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.02	-0.07	-0.08	-0.11
Minneapolis-St. Paul Area, MN	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.05	-0.18	-0.22	-0.28
Missoula Area, MT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	-0.01
Missoula county; Missoula and vicinity, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
Modesto Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.02	-0.02
Mohave County (part); Bullhead City, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Mono County; Mammoth Lake planning area, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Mono County; Mono Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Morgan County, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morongo Band of Mission Indians, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	0.00	0.00	0.00
Morristown Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine County; (part), IA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Muscatine, IA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Muskegon County, MI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Muskingum River, OH	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.01	-0.01	-0.01
Nashua Area, NH	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Nassau County, FL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Nevada County (Western part), CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	0.00	-0.01	-0.01	-0.01
Nevada County (Western part), CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	0.00	-0.01	-0.01	-0.01
New Haven County, CT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
New Haven-Meriden-Waterbury Area, CT	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.05	-0.05	-0.07
New Manchester-Grant magisterial district in Hancock County, WV	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.02
New York County, NY	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.02	-0.02	-0.02
New York, NY-NJ-CT	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.22	-0.76	-0.91	-1.15
New York-N. New Jersey-Long Island Area, NY-NJ-CT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.13	-0.42	-0.50	-0.63
New York-N. New Jersey-Long Island, NY-NJ-CT	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.22	-0.75	-0.90	-1.14
New York-Northern New Jersey-Long Island, NY-NJ-CT	Ozone (2015 8-hour)	Nonattainment, Moderate	50	0	-0.22	-0.75	-0.90	-1.14
NJ portion of the Northeast Pennsylvania-Upper Delaware Valley Interstate AQCR: (part), NJ	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Nogales, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Northern Milwaukee/Ozaukee Shoreline, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.02	-0.08	-0.09	-0.12
Northern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.07	-0.17	-0.20	-0.25
Oakridge, OR	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	0.00	0.00	0.00
Ogden Area, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Olmsted County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.01	-0.01	-0.02
Olmsted; City of Rochester, MN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.02
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.01	-0.01	-0.02	-0.02
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.01	-0.01	-0.02	-0.02
Pekin, IL	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Penns Grove Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Peoria County: Hollis twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Peoria County; Peoria, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Perth Amboy Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	-0.01	-0.01
Philadelphia-Camden County Area, PA-NJ	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.03	-0.08	-0.09	-0.11
Philadelphia-Wilmington, PA-NJ-DE	PM2.5 (2006 24-hour)	Maintenance, Moderate for PA and DE; Subject to Former Subpart 1 for NJ	100	0	-0.11	-0.33	-0.39	-0.49
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.14	-0.43	-0.51	-0.64
Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.14	-0.43	-0.51	-0.64
Phoenix Area, AZ	CO (1971 8-hour)	Maintenance, Serious	100	0	-0.06	-0.21	-0.25	-0.32
Phoenix-Mesa, AZ	Ozone (2008 8-hour)	Nonattainment, Moderate	100	0	-0.06	-0.22	-0.26	-0.33
Phoenix-Mesa, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.06	-0.22	-0.27	-0.34
Pierce County; Tacoma, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Ajo planning area, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pima County; Rillito planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal and Gila Counties; Payson, AZ	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Pinal County (part); West Pinal, AZ	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	0.00	-0.02	-0.02	-0.02
Pitkin County; Aspen, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.49	-0.92	-1.03	-1.25
Pittsburgh Area, PA	CO (1971 8-hour)	Maintenance, --	100	0	-0.03	-0.06	-0.07	-0.08
Pittsburgh-Beaver Valley, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.30	-0.61	-0.69	-0.85
Pittsburgh-Beaver Valley, PA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.26	-0.54	-0.62	-0.76
Plumas County, CA	PM2.5 (2012 Annual)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Polk County, TN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Portland Area: Portland Metro Service District Boundary, OR	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.07	-0.08	-0.11
Power-Bannock Counties; Fort Hall Indian Reservation, ID	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Power-Bannock Counties; Portneuf Valley Area, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	-0.01
Provo Area, UT	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	0.00	-0.01	-0.01	-0.01
Provo, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.03	-0.06	-0.07	-0.09
Prowers County; Lamar, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Raleigh-Durham Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.09	-0.23	-0.26	-0.33
Ramsey County; (part), MN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Reading, PA	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.03	-0.07	-0.08	-0.10
Reno Area, NV	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.01	-0.02	-0.02
Rhineland, WI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Riverside County (Coachella Valley), CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.01	-0.04	-0.05	-0.06
Riverside County (Coachella Valley), CA	Ozone (2015 8-hour)	Nonattainment, Severe-15	25	0	-0.01	-0.04	-0.05	-0.06
Riverside County; Coachella Valley planning area, CA	PM10 (1987 24-hour)	Nonattainment, Serious	70	0	-0.02	-0.05	-0.05	-0.07
Riverside, Los Angeles, Orange, and San Bernardino Counties; South Coast Air Basin, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.41	-1.22	-1.43	-1.80
Rosebud County; Lame Deer, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Routt County (part); Steamboat Springs, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.59	-1.10	-1.23	-1.50
Rusk and Panola Counties, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.16	-0.29	-0.33	-0.40
Sacramento Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.03	-0.09	-0.11	-0.14
Sacramento County, CA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.19	-0.40	-0.45	-0.55
Sacramento Metro, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.21	-0.45	-0.51	-0.63
Sacramento Metro, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.21	-0.45	-0.51	-0.63
Sacramento, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.21	-0.45	-0.51	-0.63
Salem Area, OR	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.02	-0.02
Salt Lake City Area, UT	CO (1971 8-hour)	Maintenance, --	100	0	-0.05	-0.10	-0.12	-0.14
Salt Lake City, UT	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.07	-0.18	-0.21	-0.26
Salt Lake County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.06	-0.14	-0.17	-0.20
Salt Lake County, UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.06	-0.14	-0.17	-0.20
San Antonio, TX	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.07	-0.18	-0.21	-0.26
San Bernardino County (part); excluding Searles Valley Planning area and South Coast Air Basin, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.11	-0.23	-0.26	-0.32
San Diego Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.06	-0.21	-0.25	-0.31
San Diego County, CA	Ozone (2008 8-hour)	Nonattainment, Severe-15	25	0	-0.06	-0.21	-0.25	-0.32

Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
San Diego County, CA	Ozone (2015 8-hour)	Nonattainment, Moderate	100	0	-0.06	-0.21	-0.25	-0.31
San Francisco Bay Area, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.28	-0.73	-0.85	-1.06
San Francisco Bay Area, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.28	-0.73	-0.85	-1.06
San Francisco Bay Area, CA	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	-0.28	-0.73	-0.85	-1.06
San Francisco-Oakland-San Jose Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.27	-0.69	-0.81	-1.01
San Joaquin Valley Air Basin; Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare Counties, CA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	-0.33	-0.72	-0.83	-1.02
San Joaquin Valley, CA	Ozone (2008 8-hour)	Nonattainment, Extreme	10	0	-0.33	-0.72	-0.83	-1.02
San Joaquin Valley, CA	Ozone (2015 8-hour)	Nonattainment, Extreme	10	0	-0.34	-0.73	-0.84	-1.03
San Joaquin Valley, CA	PM2.5 (2006 24-hour)	Nonattainment, Serious	70	0	-0.33	-0.72	-0.82	-1.01
San Joaquin Valley, CA	PM2.5 (2012 Annual)	Nonattainment, Serious	70	0	-0.33	-0.72	-0.82	-1.01
San Luis Obispo (Eastern part), CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.09	-0.16	-0.18	-0.22
San Luis Obispo (Eastern San Luis Obispo), CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.09	-0.16	-0.18	-0.22
San Manuel, AZ	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
San Miguel County; Telluride, CO	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.02	-0.02	-0.02
Sanders County (part); Thompson Falls and vicinity, MT	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Santa Cruz County; Nogales planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
Seaford, DE	Ozone (2008 8-hour)	Nonattainment, Marginal	50	0	-0.01	-0.02	-0.02	-0.03
Seattle-Tacoma Area, WA	CO (1971 8-hour)	Maintenance, Moderate > 12.7ppm	100	0	-0.04	-0.16	-0.19	-0.25
Seattle-Tacoma, WA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	-0.01	-0.03	-0.03	-0.04
Shoreline Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Inland Sheboygan County, WI	Ozone (2008 8-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Sheboygan County, WI	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	-0.01	-0.01	-0.01
Sheridan County; City of Sheridan, WY	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Shoshone County (part); excluding Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Shoshone County; City of Pinehurst, ID	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Silver Bow County; Butte, MT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Somerville Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Southern Wasatch Front, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.03	-0.06	-0.07	-0.09
Southwest Indiana, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.01	-0.01	-0.01	-0.02

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Spokane Area, WA	CO (1971 8-hour)	Maintenance, Serious	100	0	0.00	-0.02	-0.02	-0.03
Spokane County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.02	-0.02	-0.03
Springfield Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
St. Bernard Parish, LA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.11	-0.21	-0.24	-0.29
St. Clair, MI	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.03	-0.03	-0.04
St. Louis Area, MO	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.04	-0.05	-0.07
St. Louis, MO-IL	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.05	-0.15	-0.18	-0.23
St. Louis-St. Charles-Farmington, MO-IL	Ozone (2008 8-hour)	Maintenance, Marginal	100	0	-0.05	-0.16	-0.19	-0.24
Steubenville, OH-WV	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	-0.02	-0.04	-0.04	-0.05
Steubenville-Weirton, OH-WV	PM2.5 (2006 24-hour)	Maintenance, Former Subpart 1	100	0	-0.04	-0.08	-0.09	-0.11
Stockton Area, CA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.01	-0.02	-0.02	-0.03
Sullivan County, TN	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Sutter Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Syracuse Area; Onondaga County, NY	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.05	-0.06	-0.08
Tazewell County: Groveland twp, IL	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Terre Haute, IN	SO <sub>2</sub> (2010 1-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Thurston County; Cities of Olympia, Tumwater, and Lacey, WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Titus County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Toms River Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Tooele County (part), UT	SO <sub>2</sub> (1971 24-hour/Annual)	Nonattainment, --	100	0	-0.02	-0.04	-0.04	-0.05
Trenton Area, NJ	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.01
Trona, CA	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	-0.08	-0.15	-0.17	-0.21
Tucson Area, AZ	CO (1971 8-hour)	Maintenance, --	100	0	-0.01	-0.04	-0.05	-0.07
Tuolumne County, CA	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Tuscan Buttes, CA	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	0.00	0.00
Henderson-Webster Counties, KY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	-0.01	-0.01	-0.01
New Madrid County, MO	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
St. Lawrence County, NY	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00



Appendix B Air Quality Nonattainment Area Results

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Howard County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.06	-0.12	-0.14	-0.16
Hutchinson County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.07	-0.13	-0.14	-0.17
Navarro County, TX	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.06	-0.11	-0.12	-0.15
Giles County, VA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	0.00	0.00	0.00	0.00
Whatcom County, WA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.02	-0.02
Tuscan Buttes, CA	Ozone (2015 8-hour)	Nonattainment, Marginal (Rural Transport)	100	0	0.00	0.00	0.00	0.00
Uinta Basin, UT	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	-0.21	-0.39	-0.44	-0.53
Union County; LaGrande, OR	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Upper Green River Basin Area, WY	Ozone (2008 8-hour)	Nonattainment, Marginal	100	0	-0.23	-0.44	-0.49	-0.60
Utah County, UT	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.08	-0.16	-0.18	-0.22
Vancouver Area: Clark County (part), WA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	0.00	-0.02	-0.02	-0.03
Ventura County, CA	Ozone (2008 8-hour)	Nonattainment, Serious	50	0	-0.12	-0.26	-0.29	-0.36
Ventura County, CA	Ozone (2015 8-hour)	Nonattainment, Serious	50	0	-0.12	-0.26	-0.29	-0.36
Vermillion County; Part of Clinton Township, IN	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Vigo County, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.03	-0.03
Walla Walla County; Wallula, WA	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	0.00	0.00	0.00
Waltham Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Warren County: Conewago Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.02
Warren County: Warren Boro, Pleasant Twp, Glade Twp, PA	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	-0.01	-0.02	-0.02	-0.03
Warren, PA	SO <sub>2</sub> (2010 1-hour)	Nonattainment, --	100	0	-0.01	-0.02	-0.02	-0.03
Washington Area, DC-MD-VA	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.06	-0.07	-0.09
Washington, DC-MD-VA	Ozone (2008 8-hour)	Nonattainment (DC) Maintenance (MD, VA), Marginal	50	0	-0.13	-0.38	-0.45	-0.57
Washington, DC-MD-VA	Ozone (2015 8-hour)	Nonattainment, Marginal	50	0	-0.13	-0.38	-0.45	-0.57
Washoe County; Reno planning area, NV	PM10 (1987 24-hour)	Maintenance, Serious	100	0	0.00	-0.01	-0.02	-0.02
Wayne County: Boston, Center, Franklin, Wayne & Webster Townships, IN	SO <sub>2</sub> (1971 24-hour/Annual)	Maintenance, --	100	0	0.00	0.00	0.00	-0.01

**Appendix B Air Quality Nonattainment Area Results**

Nonattainment or Maintenance Area	NAAQS Pollutant (Standard)	Status, Severity Classification <sup>a</sup>	General Conformity Threshold <sup>b</sup>	Emission Changes by Alternative (tons per year) <sup>c</sup>				
				Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 2.5	Alt. 3
Wayne County; (part), MI	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	-0.05	-0.09	-0.10	-0.12
West Central Pinal County, AZ	PM2.5 (2006 24-hour)	Nonattainment, Moderate	100	0	0.00	0.00	0.00	0.00
West Silver Valley, ID	PM2.5 (2012 Annual)	Maintenance, Moderate	100	0	0.00	0.00	0.00	0.00
Winston-Salem Area, NC	CO (1971 8-hour)	Maintenance, Moderate <= 12.7ppm	100	0	-0.02	-0.05	-0.06	-0.07
Worcester Area, MA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	-0.01	-0.01	-0.02
Yakima Area, WA	CO (1971 8-hour)	Maintenance, --	100	0	0.00	0.00	0.00	0.00
Yakima County; (part), WA	PM10 (1987 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Yuba City-Marysville, CA	PM2.5 (2006 24-hour)	Maintenance, Moderate	100	0	0.00	-0.01	-0.01	-0.02
Yuma County; Yuma planning area, AZ	PM10 (1987 24-hour)	Nonattainment, Moderate	100	0	0.00	-0.01	-0.01	-0.01
Yuma, AZ	Ozone (2015 8-hour)	Nonattainment, Marginal	100	0	0.00	0.00	-0.01	-0.01

Notes:

<sup>a</sup> Nonattainment or maintenance status as of 12/27/2021. EPA. 2021. The Green Book Nonattainment Areas for Criteria Pollutants; <http://www.epa.gov/airquality/greenbook/>. "--" indicates that no severity classification has been established for the NAAQS pollutant.

<sup>b</sup> Emissions thresholds in tons per year. Where the threshold differs by precursor pollutant, the smallest of the precursor thresholds is shown. These thresholds are provided for information only; a general conformity determination is not required for the Proposed Action. Source: 40 CFR 93.853.

<sup>c</sup> Positive values are emissions increases; negative values are emissions decreases.

NAAQS = National Ambient Air Quality Standard; CO = carbon monoxide; NO<sub>2</sub> = nitrogen dioxide; PM2.5 = particulate matter 2.5 microns or less in diameter; PM10 = particulate matter 10 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; ppm = parts per million.

## **APPENDIX C**

### **Life-Cycle Assessment Studies**



**Final Supplemental Environmental Impact Statement for  
Model Year 2024–2026 Corporate Average Fuel Economy Standards**

**Table C-1. Studies Analyzed in Chapter 6, Life-Cycle Assessment of Vehicle Energy, Material, and Technology Impacts**

Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
Afzal et al. 2020. Life Cycle Assessment (LCA) of Welded of AISI 304 Stainless Steel Using Laser Beam Welding (LBW), Friction Stir Welding (FSW) and Gas Tungsten Arc Welding (GTAW). <i>Lasers in Engineering</i> . 48(1-3): 33-42.	Laser welding	Cradle to grave	Acidification potential, abiotic depletion, eutrophication potential, global warming potential, photochemical ozone creation potential, ozone depletion potential
Ahmadi, L., A. Yip, M. Fowler, S.B. Young, and R.A. Fraser. 2014. Environmental feasibility of re-use of electric vehicle batteries. <i>Sustain. Energy Technology Assessment</i> 6:64-74. doi:10.1016/j.seta.2014.01.006.	EV lithium-ion batteries	Cradle to grave	GHG emissions
Aichberger, C., Jungmeier, G., 2020. Environmental Life Cycle Impacts of Automobile Batteries Based on a Literature review. <i>Energies</i> . 13(23), 6345. December 1. Available at: <a href="https://doi.org/10.3390/en13236345">https://doi.org/10.3390/en13236345</a>	EV lithium-ion batteries	Cradle to grave	GHG emissions
Ambrose, H., A. Kendall. 2016. Effects of battery chemistry and performance on the life cycle greenhouse gas intensity of electric mobility. <i>Transportation Research Part D: Transport and Environment</i> 47:182-194, ISSN 1361-9209, Available at: <a href="https://doi.org/10.1016/j.trd.2016.05.009">https://doi.org/10.1016/j.trd.2016.05.009</a> .	EV lithium-ion batteries, PEVs	Cradle to grave	GHG emissions, energy requirements
Ambrose, H., A. Kendall, M. Lozano, S. Wachche, L. Fulton. 2020. Trends in life cycle greenhouse gas emissions of future light duty electric vehicles. <i>Transportation Research Part D: Transport and Environment</i> , 81, 202287. Available at: <a href="https://doi.org/10.1016/j.trd.2020.102287">https://doi.org/10.1016/j.trd.2020.102287</a> .	Light-duty EVs	Cradle to grave	GHG emissions
Arbabzadeh, M., J. X. Johnson, R. De Kleine, and G. A. Keoleian. 2015. Vanadium redox flow batteries to reach greenhouse gas emissions targets in an off-grid configuration. <i>Applied Energy</i> , 146, 397-408.	Vanadium redox flow batteries; energy storage systems	Cradle to grave	GHG emissions
Archsmith, J., A. Kendall, and D. Rapson. 2015. From cradle to junkyard: assessing the life cycle greenhouse gas benefits of electric vehicles. <i>Research in Transportation Economics</i> 52:72–90.	EVs	Cradle to grave plus well to wheels	GHG emissions
Arulvizhi, V. K., S. Alandur Somasundaram, M. H. Niyaz, P. K. Ranganathan, A. Z. Moolai, M. A. A. Abdulla Burhanudeen, and M. R. Ramu 2019. Advances in Laser Welding of Stainless Steel Alloys. The National Academies of Sciences Engineering and Medicine. SAE Technical Paper. Available at: <a href="https://doi.org/10.4271/2019-28-0056">https://doi.org/10.4271/2019-28-0056</a>	Laser welding	Not applicable	Not applicable

**Appendix C Life-Cycle Assessment Studies**

Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
Bandivadekar, A., K. Bodek, L. Cheah, C. Evans, T. Groode, J. Heywood, E. Kasseris, K. Kromer, and M. Weiss. 2008. On the Road in 2035: Reducing Transportation's Petroleum Consumption and GHG Emissions. MIT Laboratory for Energy and the Environment. Report No. LFEE 2008 - 05 RP. Massachusetts Institute of Technology: Cambridge, MA. Available at: <a href="http://web.mit.edu/sloan-auto-lab/research/beforeh2/otr2035/">http://web.mit.edu/sloan-auto-lab/research/beforeh2/otr2035/</a> . (Accessed: February 15, 2018).	Lightweighting; vehicle design; engine downsizing; BEVs; fuel-cell vehicles; HSS; aluminum	Cradle to grave	Energy requirements, GHG emissions
Barillari, F., Chini, F. Biopolymers - Sustainability for the Automotive Value-added Chain. 2020. ATZ Worldw 122, 36–39. Available at: <a href="https://doi.org/10.1007/s38311-020-0298-6">https://doi.org/10.1007/s38311-020-0298-6</a>	Plastics and polymer composites	Not applicable	GHG emissions
Baroth, A., S. Karanam, and R. McKay. 2012. Life Cycle Assessment of Lightweight Noryl* GTX* Resin Fender and Its Comparison with Steel Fender. Society of Automotive Engineers (SAE) Paper 2012-01-0650. doi:10.4271/2012-01-0650.	Plastic, resin, and polymer composites; lightweighting	Cradle to grave	GHG emissions, energy requirements
Bertram, M., K. Buxmann, and P. Furrer. 2009. Analysis of Greenhouse Gas Emissions Related to Aluminum Transport Applications. <i>The International Journal of Life Cycle Assessment</i> 14(1):62–69. doi:10.1007/s11367-008-0058-0.	Aluminum; steel; cast iron	Cradle to grave	GHG emissions
Bieker, G. 2021. A Global Comparison of the Life-Cycle Greenhouse Gas Emissions of Combustion Engine and Electric Passenger Cars. The International Council on Clean Transportation. Available at: <a href="https://theicct.org/sites/default/files/publications/Global-LCA-passenger-cars-jul2021_0.pdf">https://theicct.org/sites/default/files/publications/Global-LCA-passenger-cars-jul2021_0.pdf</a> .	Glider and powertrain, battery, hydrogen system, maintenance	Cradle to grave	GHG emissions, energy requirements, fuel cycle
Birat, J.P., L. Rocchia, V. Guérin, and M. Tuchman. 2003. Ecodesign of the Automobile, Based on Steel Sustainability. Society of Automotive Engineers (SAE) International Paper 2003-01-2850. doi:10.4271/2003-01-2850.	Aluminum; steel; recycling	Cradle to grave	CO <sub>2</sub> emissions
Boland, S., and S. Unnasch. 2014. Carbon Intensity of Marginal Petroleum and Corn Ethanol Fuels. Life Cycle Associates Report. LCA.6075.83.2014, Prepared for Renewable Fuels Association. Available at: <a href="http://ethanolrfa.3cdn.net/8f1f5d7e868d849da0_gam6b4eab.pdf">http://ethanolrfa.3cdn.net/8f1f5d7e868d849da0_gam6b4eab.pdf</a> . (Accessed: February 15, 2018).	Petroleum fuel from crude oil, corn ethanol	Well to wheels	GHG emissions

Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
<p>Boland, C., R. DeKleine, A. Moorthy, G. Keoleian, H. C. Kim, E. Lee, and T.J. Wallington. 2014. A Life Cycle Assessment of Natural Fiber Reinforced Composites in Automotive Applications. Society of Automotive Engineers (SAE) Technical Paper 2014-01-1959. doi:10.4271/2014-01-1959.</p>	<p>Glass-fiber-reinforced polymer, cellulose-fiber-reinforced polymer, polymer composites, lightweighting</p>	<p>Cradle to grave</p>	<p>Fuel use, GHG emissions</p>
<p>Boustani, A., S. Sahni, T. Gutowski, and S. Graves. 2010. Tire Remanufacturing and Energy Savings. Environmentally Benign Manufacturing Laboratory, Sloan School of Management, Massachusetts Institute of Technology. Available at: <a href="http://web.mit.edu/ebm/www/Publications/MITEI-1-h-2010.pdf">http://web.mit.edu/ebm/www/Publications/MITEI-1-h-2010.pdf</a>. (Accessed: February 15, 2018).</p>	<p>Tires</p>	<p>Not applicable</p>	<p>Fuel use, energy requirements</p>
<p>Bushi, L., T. Skszek, and D. Wagner. 2015. Comparative LCA Study of Lightweight Auto Parts of MMLV Mach-I Vehicle as per ISO 14040/44 LCA Standards and CSA Group 2014 LCA Guidance Document for Auto Parts. <i>Engineering Solutions for Sustainability</i>. In: Fergus J.W., Mishra B., Anderson D., Sarver E.A., Neelameggham N.R. (eds) <i>Engineering Solutions for Sustainability</i>. Springer, Cham.</p>	<p>Aluminum, steel, iron, lightweighting</p>	<p>Cradle to grave</p>	<p>Acidification potential, eutrophication potential, GHG emissions, ozone depletion, ozone creation, energy requirements</p>
<p>Cáceres, C. H. 2009. Transient Environmental Effects of Light Alloy Substitutions in Transport Vehicles. <i>Materials &amp; Design</i> 30(8):2813–2822. doi:10.1016/j.matdes.2009.01.027.</p>	<p>Magnesium, aluminum</p>	<p>Gate to gate</p>	<p>Recycled materials</p>
<p>Canter, C. E., J. B. Dunn, J. Han, Z. Wang, and M. Wang., 2016. Policy implications of allocation methods in the life cycle analysis of integrated corn and corn stover ethanol production. <i>BioEnergy Research</i> 9(1): 77–87.</p>	<p>Combined ethanol, grain ethanol, stover ethanol</p>	<p>Well to wheels</p>	<p>GHG emissions</p>
<p>CARB (California Air Resources Board). 2015. Staff Report: Calculating Carbon Intensity Values from Indirect Land Use Change and Crop Based Biofuels. Appendix I: Detailed Analysis for Indirect Land Use Change. Available at: <a href="http://www.arb.ca.gov/regact/2015/lcfs2015/lcfs15appi.pdf">http://www.arb.ca.gov/regact/2015/lcfs2015/lcfs15appi.pdf</a>. (Accessed: February 15, 2018).</p>	<p>Biomass based ethanol, biodiesel</p>	<p>Cradle to gate (land use change)</p>	<p>GHG emissions</p>
<p>Cecchel, S., G. Cornacchia, A. Panvini, A. 2016. Cradle-to-Gate Impact Assessment of a High-Pressure Die-Casting Safety-Relevant Automotive Component. <i>JOM</i> 65(9):2443-2448. doi:10.1007/s11837-016-2046-3.</p>	<p>Aluminum, high pressure die casting</p>	<p>Cradle to gate</p>	<p>GHG emissions</p>

**Appendix C Life-Cycle Assessment Studies**

Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
Cheah, L., J. B. Heywood, and R. Kirchain. 2009. Aluminum Stock and Flows in U.S. Passenger Vehicles and Implications for Energy Use. <i>Journal of Industrial Ecology</i> 13(5):718–734. doi:10.1111/j.1530-9290.2009.00176x. Available at: <a href="http://onlinelibrary.wiley.com/doi/10.1111/j.1530-9290.2009.00176.x/full">http://onlinelibrary.wiley.com/doi/10.1111/j.1530-9290.2009.00176.x/full</a> . (Accessed: February 15, 2018).	Aluminum	Not applicable	Energy requirements
Cheah, L. 2010. Cars on a Diet: The Material and Energy Impacts of Passenger Vehicle Weight Reduction in the U.S. Massachusetts Institute of Technology: Cambridge, MA. Available at: <a href="http://web.mit.edu/sloan-auto-lab/research/beforeh2/files/LCheah_PhD_thesis_2010.pdf">http://web.mit.edu/sloan-auto-lab/research/beforeh2/files/LCheah_PhD_thesis_2010.pdf</a> . (Accessed: February 15, 2018).	Magnesium, aluminum, HSS, polymer composites	Cradle to grave	Energy requirements, GHG emissions
Cheah, L., and J. B. Heywood. 2011. Meeting U.S. Passenger Vehicle Fuel Economy Standards in 2016 and Beyond. <i>Energy Policy</i> 39(1):454–466. Available at: <a href="http://web.mit.edu/sloan-auto-lab/research/beforeh2/files/Cheah%20&amp;%20Heywood%202010.pdf">http://web.mit.edu/sloan-auto-lab/research/beforeh2/files/Cheah%20&amp;%20Heywood%202010.pdf</a> . (Accessed: February 15, 2018).	Lightweighting, HEVs, PHEVs, advanced diesel	Not applicable	None
Chen, W.-Q., and T. Graedel. 2012a. Dynamic Analysis of Aluminum Stocks and Flows in the United States: 1900–2009. <i>Ecological Economics</i> 81:92–102. doi:10.1016/j.ecolecon.2012.06.008.	Aluminum	Not applicable	None
Chen, W.-Q., and T. Graedel. 2012b. Anthropogenic Cycles of the Elements: A Critical Review. <i>Environmental Science &amp; Technology</i> 46(16):8574–8586. doi:10.1021/es3010333.	Aluminum, steel	Not applicable	None
CMU GDI (Carnegie Mellon University, Green Design Institute). 2008. Economic Input-Output Life Cycle Assessment (EIO-LCA), US 1997 Industry Benchmark model. Available at: <a href="http://www.eiolca.net">http://www.eiolca.net</a> . (Accessed: February 15, 2018).	Various	Cradle to grave	GHG emissions, energy requirements, water withdrawals, air emissions (CO, VOCs, NO <sub>x</sub> , SO <sub>2</sub> , NH <sub>3</sub> , and PM), hazardous waste, toxic releases, land use, water pollution, human health impacts



Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
Colett, J. 2013. Impacts of Geographic Variation on Aluminum Lightweighted Plug-in Hybrid Electric Vehicle Greenhouse Gas Emissions. University of Michigan: Ann Arbor, MI. Available at: <a href="http://deepblue.lib.umich.edu/bitstream/handle/2027.42/101902/Joe%20Colett%20Thesis%20December%202013.pdf?sequence=1">http://deepblue.lib.umich.edu/bitstream/handle/2027.42/101902/Joe%20Colett%20Thesis%20December%202013.pdf?sequence=1</a> . (Accessed: February 15, 2018).	Aluminum	Cradle to gate	GHG emissions
Congressional Research Service. 2020. Environmental Effects of Battery Electric and Internal Combustion Engine Vehicles, R46420. June 16. Available at: <a href="https://fas.org/sgp/crs/misc/R46420.pdf">https://fas.org/sgp/crs/misc/R46420.pdf</a>	EV batteries	Not applicable	GHG emissions, particulate matter, energy requirements
Continental. 1999. Life Cycle Assessment of a Car Tire. Hannover, Germany. Available at: <a href="https://www.continental-corporation.com/resource/blob/47500/b64cfd62d7c37b31e0141cb618756f86/okobilanz-en-data.pdf">https://www.continental-corporation.com/resource/blob/47500/b64cfd62d7c37b31e0141cb618756f86/okobilanz-en-data.pdf</a> . (Accessed: February 15, 2018).	Tires	Cradle to grave	Fuel use, energy requirements, water use, air emissions including CO and VOCs, GHG emissions, water pollution, acidification, eutrophication
Costin, G-A., C. Afteni, I. Iacob, V. Paunoiu, and N. Baroiu. 2018. An overview on sheet metal hydroforming technologies. 2018. The Annals of University of Galati Fascicle V, Technologies in Machine Building, ISSN 2668-4888. Available at: <a href="http://www.cmrs.ugal.ro/TMB/2018/L08_Anale2018-Costin.pdf">http://www.cmrs.ugal.ro/TMB/2018/L08_Anale2018-Costin.pdf</a>	Hydroforming	Not applicable	Not applicable
Dai, Q., J. C. Kelly, L. Gaines, and M. Wang. 2019. Life Cycle Analysis of Lithium-Ion Batteries for Automotive Applications. <i>Batteries</i> , 5(2):48.	EV lithium-ion batteries	Cradle to gate	Energy requirements, GHG emissions
Dai, Q., Kelly, J., and Elgowainy, A. 2017. "Life Cycle Analysis of 1995-2014 U.S. Light-Duty Vehicle Fleet: The Environmental Implications of Vehicle Material Composition Changes," <i>SAE Int. J. Mater. Manf.</i> 10(3):378-384, 2017. Available at: <a href="https://doi.org/10.4271/2017-01-1273">https://doi.org/10.4271/2017-01-1273</a> .	Plastics and polymer composites	Cradle to grave	GHG emissions
Das, S. 2011. Life Cycle Assessment of Carbon Fiber-Reinforced Polymer Composites. <i>The International Journal of Life Cycle Assessment</i> 16(3):268–282. doi:10.1007/s11367-011-0264-z.	Steel, carbon-fiber-reinforced polymer	Cradle to grave	Energy requirements, GHG emissions
Das, S. 2014. Life Cycle Energy and Environmental Assessment of Aluminum-Intensive Vehicle Design. Society of Automotive Engineers (SAE) <i>International Journal of Materials and Manufacturing</i> 7(3):588–595. doi:10.4271/2014-01-1004.	Lightweighting, aluminum, HSS, steel	Cradle to grave	Energy requirements, GHG emissions

**Appendix C Life-Cycle Assessment Studies**

Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
Delogu, M., F. Del Pero, F. Romoli, and M. Pierini. 2015. Life Cycle Assessment of a Plastic Air Intake Manifold. <i>International Journal of Life Cycle Assessment</i> , 20(10), 1429-1443. doi:10.1007/s11367-015-0946-z.	Plastics, air intake manifold, lightweighting	Cradle to grave	Energy requirements, acidification, eutrophication, GHG emissions, ozone depletion, ozone creation
Dubreuil, A., L. Bushi, S. Das, A. Tharumarajah, and G. Xianzheng. 2010. A Comparative Life Cycle Assessment of Magnesium Front End Autoparts. Presented at Society of Automotive Engineers (SAE) 2010 World Congress and Exhibition. doi:10.4271/2012-01-2325.	Magnesium, aluminum, steel	Cradle to grave	Energy requirements, GHG emissions, criteria air pollutant emissions
Dunn, J. B., L. Gaines, J. Sullivan, and M. Q. Wang. 2012. Impact of recycling on cradle-to-gate energy consumption and greenhouse gas emissions of automotive Li-ion batteries. <i>Environmental Science &amp; Technology</i> 46(22):12704 –12710. doi:10.1021/es302420z.	EV lithium-ion batteries	Non-use (cradle to gate and end-of-life)	Energy requirements, GHG emissions
Dunn, J. B., S. Mueller, H. Y. Kwon, and M. Q. Wang. 2013. Land-use change and greenhouse gas emissions from corn and cellulosic ethanol. <i>Biotechnology for Biofuels</i> 6(1):51. doi:doi.org/10.1186/1754-6834-6-51. Available at: <a href="https://biotechnologyforbiofuels.biomedcentral.com/articles/10.1186/1754-6834-6-51">https://biotechnologyforbiofuels.biomedcentral.com/articles/10.1186/1754-6834-6-51</a> . (Accessed: February 15, 2018).	Corn and cellulosic ethanol	Gate to gate (land-use change)	GHG emissions
Dunn, J. B., L. Gaines, J. C. Kelly, C. James, and K. G. Gallagher. 2015a. The significance of Li-ion batteries in electric vehicle life-cycle energy and emissions and recycling's role in its reduction. <i>Energy &amp; Environmental Science</i> 8(1):158–168. doi: 10.1039/C4EE03029J.	EVs, EV lithium-ion batteries	Cradle to grave	Energy requirements, GHG emissions
Dunn, J. B., Z. Qin, S. Mueller, H. Kwon, M. Wander, M. Wang. 2015b. Carbon Calculator for Land Use Change from Biofuels Production (CCLUB), Users' Manual and Technical Documentation (No. ANL/ESD/12-5 Rev. 2). Argonne National Laboratory (ANL). Available at: <a href="https://greet.es.anl.gov/publications">https://greet.es.anl.gov/publications</a> . (Accessed: February 15, 2018).	Biomass based ethanol, soy biodiesel	Cradle to gate (land use change)	GHG emissions
Easton, M., M. Gibson, A. Beer, M. Barnett, C. Davies, Y. Durandet, S. Blacket, X. Chen, N. Birbilis, and T. Abbot. 2012. The Application of Magnesium Alloys to the Lightweighting of Automotive Structures. <i>Sustainable Automotive Technologies</i> 2012:17–23. doi: 10.1007/978-3-642-24145-1_3.	Magnesium alloys	Not applicable	GHG emissions

Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
Ehrenberger, S., J. B. Dunn, G. Jungmeier, and H. Wang. 2019. An international dialogue about electric vehicle deployment to bring energy and greenhouse gas benefits through 2030 on a well-to-wheels basis. <i>Transportation Research Part D: Transport and Environment</i> . 74: 245-254. September. Available at: <a href="https://doi.org/10.1016/j.trd.2019.07.027">https://doi.org/10.1016/j.trd.2019.07.027</a> .	EVs	Well to wheels	GHG emissions, emission factors
Ehrenberger, S., and H. E. Friedrich. 2013. Life-Cycle Assessment of the Recycling of Magnesium Vehicle Components. <i>JOM</i> 65(10):1303-1309. doi:10.1007/s11837-013-0703-3.	Magnesium	Cradle to grave	GHG emissions
Elgowainy, A., J. Han, L. Poch, M. Wang, A. Vyas, M. Mahalik, and A. Rousseau. 2010. Well-to-Wheels Analysis of Energy Use and Greenhouse Gas Emissions of Plug-in Hybrid Electric Vehicles. ANL/ESD/10-1. Argonne National Laboratory: Argonne, IL. Available at: <a href="https://energy.gov/eere/fuelcells/downloads/well-wheels-analysis-energy-use-and-greenhouse-gas-emissions-plug-hybrid">https://energy.gov/eere/fuelcells/downloads/well-wheels-analysis-energy-use-and-greenhouse-gas-emissions-plug-hybrid</a> . (Accessed: February 15, 2018).	PHEVs using gasoline, diesel, E85 corn ethanol, and a hydrogen fuel cell	Well to wheels	GHG emissions, energy requirements
Elgowainy, A., J. Han, J. Ward, F. Joseck, D. Gohlke, A. Lindauer, T. Ramsden, M. Bidy, M. Alexander, S. Barnhart, and I. Sutherland. 2016. Cradle-to-Grave Lifecycle Analysis of US Light Duty Vehicle-Fuel Pathways: A Greenhouse Gas Emissions and Economic Assessment of Current (2015) and Future (2025-2030) Technologies (ANL/ESD-16/7). Argonne National Laboratory: Argonne, IL. Available at: <a href="https://greet.es.anl.gov/publication-c2g-2016-report">https://greet.es.anl.gov/publication-c2g-2016-report</a> . (Accessed: February 15, 2018).	Internal combustion engine vehicles using gasoline, diesel, CNG, and LPG, FFVs using E85 corn ethanol, HEVs using gasoline, PHEVs using gasoline, FCEVs using hydrogen, and BEVs with 90- and 210-mile ranges	Cradle to grave and well to wheels	GHG emissions, energy requirements
Elgowainy, A., J. Kelly, and M. Wang. 2021. Life Cycle Greenhouse Gas Emissions for Small Sport Utility Vehicles. Department of Energy, Offices of Vehicle Technologies, Hydrogen and Fuel Cell Technologies, and Bioenergy Technologies Program Record # 21003. Available at: <a href="https://www.hydrogen.energy.gov/pdfs/21003-life-cycle-ghg-emissions-small-suvs.pdf">https://www.hydrogen.energy.gov/pdfs/21003-life-cycle-ghg-emissions-small-suvs.pdf</a> . (Accessed March 20, 2022).	Biofuel, EV, hydrogen fuel cell	Well to wheels	GHG emissions

**Appendix C Life-Cycle Assessment Studies**

Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
Ellingsen, L. A. W., G. MajeauBettez, B. Singh, A. K. Srivastava, L. O. Valøen, and A. H. Strømman. 2014. Life cycle assessment of a lithium-ion battery vehicle pack. <i>Journal of Industrial Ecology</i> 18(1):113–124. doi:10.1111/jiec.12072.	EV lithium-ion batteries	Cradle to gate	GHG emissions
Elliott, J., B. Sharma, N. Best, M. Glotter, J. B. Dunn, I. Foster, F. Miguez, S. Mueller, and M. Wang. 2014. A spatial modeling framework to evaluate domestic biofuel-induced potential land use changes and emissions. <i>Environmental Science &amp; Technology</i> 48(4):2488 –2496. doi:10.1021/es404546r.	Biofuel	Gate to gate (land-use change)	GHG emissions
Emilsson, E. and L. Dahllöf. 2019. Lithium-Ion Vehicle Battery Production: Status 2019 on Energy Use, CO <sub>2</sub> Emissions, Use of Metals, Products Environmental Footprint, and Recycling. No. C 444. November, IVL Swedish Environmental Research Institute.	EV lithium-ion batteries	Cradle to gate	GHG emissions, energy use
Englander, J. G., and A. R. Brandt. 2014. Oil Sands Energy Intensity Analysis for GREET Model Update. Department of Energy Resources Engineering, Stanford University. Palo Alto, CA. Available at: <a href="https://greet.es.anl.gov/publication-lca-update-oil-sands">https://greet.es.anl.gov/publication-lca-update-oil-sands</a> . (Accessed: February 15, 2018).	Oil sands	Gate to gate	GHG emissions
EPA (U.S. Environmental Protection Agency). 2013. Application of LifeCycle Assessment to Nanoscale Technology: Li-ion Batteries for Electric Vehicles. Design for the Environment Program. Office of Pollution Prevention and Toxics. Available at: <a href="https://www.epa.gov/sites/production/files/2014-01/documents/lithium_batteries_lca.pdf">https://www.epa.gov/sites/production/files/2014-01/documents/lithium_batteries_lca.pdf</a> . (Accessed: February 15, 2018).	EVs, EV lithium-ion batteries	Cradle to grave	Energy requirements, GHG emissions, abiotic depletion potential, water pollution, human health impacts, ozone depletion potential
EPA. 2014. Peer Review of Light-Duty Vehicle Mass-Reduction and Cost Analysis —Midsize Crossover Utility Vehicle (FEV Report). EPA-420-R-12-019. Washington DC. Available at: <a href="https://nepis.epa.gov/Exe/ZyPDF.cgi/P100EW1M.PDF?Dockey=P100EW1M.PDF">https://nepis.epa.gov/Exe/ZyPDF.cgi/P100EW1M.PDF?Dockey=P100EW1M.PDF</a> . (Accessed: February 15, 2018).	Plastics, HSS, magnesium, lightweighting	Not applicable	Not applicable
EPA. 2016i. Lifecycle Greenhouse Gas Emissions for Select Pathways. July 2016. U.S. Environmental Protection Agency, Office of Transportation and Air Quality. Available at: <a href="https://www.epa.gov/sites/default/files/2016-07/documents/select-ghg-results-table-v1.pdf">https://www.epa.gov/sites/default/files/2016-07/documents/select-ghg-results-table-v1.pdf</a> . (Accessed: January 13, 2022).	Biofuels	Well to wheels	GHG emissions
Faria, R., P. Marques, R. Garcia, P. Moura, F. Freire, J. Delgado, and A.T. de Almeida. 2014. Primary and secondary use of electric mobility batteries from a life cycle perspective. <i>Journal of Power Sources</i> 262:169–177. doi: 10.1016/j.jpowsour.2014.03.092.	EV lithium-ion batteries	Cradle to grave	GHG emissions

Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
Farquharson, D., P. Jaramillo, G. Schivley, K. Klima, and D. R. Carlson. 2016. Beyond Global Warming Potential: A Comparative Application of Climate Impact Metrics for the Life Cycle Assessment of Coal and Natural Gas Based Electricity. <i>Journal of Industrial Ecology</i> . doi:10.1111/jiec.12475. Available at: <a href="http://repository.cmu.edu/cgi/viewcontent.cgi?article=1166&amp;context=epp">http://repository.cmu.edu/cgi/viewcontent.cgi?article=1166&amp;context=epp</a> . (Accessed: February 28, 2018).	Coal, natural gas, electricity generation	Cradle to gate	GHG emissions, global temperature change, technology warming, radiative forcing
Ferreira, V., M. Merchánb, P. Egizabal, M. García de Cortázar, A. Irazustabarrenab, A. M. López-Sabiróna, and G. Ferreira. 2019. Technical and environmental evaluation of a new high performance material based on magnesium alloy reinforced with submicrometre-sized TiC particles to develop automotive lightweight components and make transportation sector more sustainable. <i>Journal of Materials Research and Technology</i> . 8(3):2549-2564	Magnesium	Cradle to grave	Multiple life-cycle environmental impacts
Gaines, L., J. Sullivan, A. Burnham, and I. Belharouak. 2011. Life-Cycle Analysis for Lithium-Ion Battery Production and Recycling. Paper No. 11-3891. Argonne National Laboratory. 90th Annual Meeting of the Transportation Research Board. Washington, DC. Available at: <a href="https://www.researchgate.net/publication/265158823_Paper_No_11-3891_Life-Cycle_Analysis_for_Li-ion_Battery_Production_and_Recycling">https://www.researchgate.net/publication/265158823_Paper_No_11-3891_Life-Cycle_Analysis_for_Li-ion_Battery_Production_and_Recycling</a> . (Accessed: February 28, 2018).	EV lithium-ion batteries	Cradle to grave	Energy requirements
Galitsky, C., and E. Worrell. 2008. Energy Efficiency Improvement and Cost Saving Opportunities for the Vehicle Assembly Industry: An ENERGY STAR Guide for Energy and Plant Managers. Lawrence Berkeley National Laboratory. Berkeley, CA. Available at: <a href="http://escholarship.org/uc/item/33x4p6p9">http://escholarship.org/uc/item/33x4p6p9</a> . (Accessed: February 28, 2018).	Energy efficiency during vehicle assembly, hydroforming	Gate to gate	Energy requirements
Gao, Z., T. LaClair, S. Ou, S. Huff, G. Wu, P. Hao, K. Boriboonsomsin, M. Barth. 2019. Evaluation of electric vehicle component performance over eco-driving cycles. <i>Energy</i> , 172:823-839, ISSN 0360-5442, Available at: <a href="https://doi.org/10.1016/j.energy.2019.02.017">https://doi.org/10.1016/j.energy.2019.02.017</a> .	BEVs (compact vehicles, transit city bus, class 7 delivery truck), powertrains	Use phase	Energy requirements
Gaustad, G., E. Olivetti, and R. Kirchain. 2012. Improving aluminum recycling: A survey of sorting and impurity removal technologies. <i>Resources, Conservation and Recycling</i> 58(2012):79 – 87. doi: <a href="http://dx.doi.org/10.1016/j.resconrec.2011.10.010">http://dx.doi.org/10.1016/j.resconrec.2011.10.010</a> .	Lightweighting	Not applicable	None

**Appendix C Life-Cycle Assessment Studies**

Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
Geyer, R. 2008. Parametric Assessment of Climate Change Impacts of Automotive Material Substitution. <i>Environmental Science &amp; Technology</i> 42(18):6973–6979.	Lightweighting, aluminum, HSS, steel	Material production and vehicle use stages only	GHG emissions
Ghandi, A., S. Yeh, A. R. Brandt, K. Vafi, H. Cai, M. Q. Wang, B. R. Scanlon, and R. C. Reedy. 2015. Energy intensity and greenhouse gas emissions from crude oil production in the Eagle Ford Region: Input data and analysis methods. UC Davis Institute of Transportation Studies. Prepared for Argonne National Laboratory: Argonne, IL. Available at: <a href="https://greet.es.anl.gov/publication-eagle-ford-oil">https://greet.es.anl.gov/publication-eagle-ford-oil</a> . (Accessed: February 28, 2018).	Gasoline, diesel, jet fuel	Well to wheels	GHG emissions, energy requirements
Gibson, T. 2000. Life Cycle Assessment of Advanced Materials for Automotive Applications. <i>Society of Automotive Engineers, Inc.</i> 109(6):1932–1941. doi: <a href="https://doi.org/10.4271/2000-01-1486">https://doi.org/10.4271/2000-01-1486</a> .	Nine advanced and conventional materials including graphite, titanium, steel, aluminum, and carbon composites	Cradle to grave	Energy use, GHG emissions, air emissions including SO <sub>x</sub> and NO <sub>x</sub> , water emissions, solid waste, HF
Gradin, K. T., S. Poulidikidou, A. Bjorklund, and C. Luttrupp. 2017. Scrutinising the electric vehicle material backpack. <i>Journal of Cleaner Production</i> . doi:10.1016/j.jclepro.2017.12.035.	EV lithium-ion batteries	Cradle to gate	GHG emissions, energy requirements
Hakamada, M., T. Furuta, Y. Chino, Y. Chen, H. Kusuda, and M. Mabuchi. 2007. Life Cycle Inventory Study on Magnesium Alloy Substitution in Vehicles. <i>Energy</i> 32(8):1352–1360. doi:10.1016/j.energy.2006.10.020.	Magnesium, steel, aluminum	Cradle to grave	Energy requirements, CO <sub>2</sub> emissions
Halvorson, A. D. 2014. Nitrogen Fertilizer Source and Management Effects on Nitrous Oxide Emissions. 16th World Fertilizer Congress of CIEC, Rio de Janeiro, Brazil, 20-24 October, 68–71.	EVs	Cradle to grave	Aggregated environmental impact score
Hardwick, A. P. and T. Outteridge. 2016. Vehicle lightweighting through the use of molybdenum-bearing advanced high-strength steels. <i>International Journal Life Cycle Assessment</i> .21:1616-1623. Available at: <a href="https://link.springer.com/article/10.1007/s11367-015-0967-7">https://link.springer.com/article/10.1007/s11367-015-0967-7</a>	High-strength steel	Well to wheel	Material sourcing
Harper G., R. Sommerville, E. Kendrick, L. Driscoll, P. Slater, R. Stolkin, A. Walton, P. Christensen, O. Heidrich, S. Lambert, A. Abbott, K. Ryder, L. Gaines, P. Anderson. 2019. Recycling lithium-ion batteries from electric vehicles. <i>Nature</i> . 575, 75–86	Lithium-ion batteries	Not applicable	Not applicable

Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
Hawkins, T., O. Gausen, and A. Stromman. Environmental impacts of hybrid and electric vehicles—a review. 2012. <i>International Journal of Life Cycle Assessment</i> . 17:997–1014. doi:10.1007/s11367-012-0440-9.	EVs	Cradle to grave	GHG emissions, abiotic depletion potential, water pollution, human health impacts
Hawkins, T. R., B. Singh, G. Majeau-Bettez, and A. H. Strømman. 2013. Comparative environmental life cycle assessment of conventional and electric vehicles. <i>Journal of Industrial Ecology</i> 17(1):53–64. doi:10.1111/j.1530-9290.2012.00532x. Available at: <a href="http://onlinelibrary.wiley.com/doi/10.1111/j.1530-9290.2012.00532x/full">http://onlinelibrary.wiley.com/doi/10.1111/j.1530-9290.2012.00532x/full</a> . (Accessed: February 28, 2018).	EVs	Cradle to grave	GHG emissions, energy requirements, water pollution, air emissions including PM, human health impacts
Heath, G.A., P. O'Donoghue, D. J. Arent, and M. Bazilian. 2014. Harmonization of initial estimates of shale gas life cycle greenhouse gas emissions for electric power generation. <i>Proceedings of the National Academy of Sciences</i> 111(31):E3167 –E3176. doi:10.1073/pnas.1309334111. Available at: <a href="http://www.pnas.org/content/111/31/E3167">http://www.pnas.org/content/111/31/E3167</a> . (Accessed: February 28, 2018).	Shale gas	Well to wire	GHG emissions
Held, M. and M. Schücking. 2019. Utilization effects on battery electric vehicle life-cycle assessment: A case-driven analysis of two commercial mobility applications. <i>Transportation Research Part D: Transport and Environment</i> 75:87–105.	EVs	Cradle to grave	GHG emissions
Hendrickson, T.P., O. Kavvada, N. Shah, R. Sathre, and C. D. Scown. 2015. Life-cycle implications and supply chain logistics of electric vehicle battery recycling in California. <i>Environmental Research Letters</i> 10(1):014011. doi:10.1088/1748-9326/10/1/014011.	EV lithium-ion batteries	Cradle to gate and end-of-life	Energy requirements, GHG emissions, air emissions (PM, NO <sub>x</sub> , SO <sub>2</sub> , and VOCs), water consumption, water withdrawals
Heuss, R., N. Muller, W. V. Sintern, A. Starke, A. Tschiesner, A. 2012. Lightweight, heavy impact. McKinsey and Company. Available at: <a href="https://www.mckinsey.com/~media/mckinsey/dotcom/client_service/automotive%20and%20assembly/pdfs/lightweight_heavy_impact.ashx">https://www.mckinsey.com/~media/mckinsey/dotcom/client_service/automotive%20and%20assembly/pdfs/lightweight_heavy_impact.ashx</a> . (Accessed: February 28, 2018).	Carbon fiber reinforced polymers, plastics, aluminum, magnesium	Not applicable	Not applicable

**Appendix C Life-Cycle Assessment Studies**

Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
Holland, S., E. Mansur, N. Muller, and A. Yates. 2015. Measuring the Spatial Heterogeneity in Environmental Externalities from Driving: A Comparison of Gasoline and Electric Vehicles. NBER Working Paper, (21291). Available at: <a href="https://pdfs.semanticscholar.org/38fe/39ccbbc15deddc571b9f991426a32dd992ed.pdf">https://pdfs.semanticscholar.org/38fe/39ccbbc15deddc571b9f991426a32dd992ed.pdf</a> . (Accessed: February 28, 2018).	Electric and internal combustion vehicles	Not applicable	PM emissions
Hottle, T., C. Caffrey, J. McDonald, and R. Dodder. 2017. Critical Factors Affecting Life Cycle Assessments of Material Choice for Vehicle Mass Reduction. <i>Transportation Research Part D</i> . 56. 241-257.	Steel, iron, plastics, aluminum, magnesium, lightweighting	Cradle to grave	Energy requirements, GHG emissions
Johnson, M.C. and J. L. Sullivan. 2014. Lightweight Materials for Automotive Application: An Assessment of Material Production Data for Magnesium and Carbon Fiber. September 2014. Argonne National Laboratory: Argonne, IL. Available at: <a href="http://www.ipd.anl.gov/anlpubs/2014/09/107574.pdf">http://www.ipd.anl.gov/anlpubs/2014/09/107574.pdf</a> . (Accessed: February 28, 2018).	Magnesium, carbon fiber reinforced polymers	Not applicable	GHG emissions
Kaierle, S., M. Dahmen, and O. Gudukkurt. 2011. Eco-Efficiency of Laser Welding Applications. Proc. SPIE 8065. SPIE Eco-Photonics 2011: Sustainable Design, Manufacturing, and Engineering Workforce Education for a Green Future. 8065T. doi:10.1117/12.888794.	Laser welding	Cradle to grave	Energy requirements, material use
Kamiya, G., J. Axsen, C. Crawford. Modeling the GHG emissions in tensivity of plug-in electric vehicles using short-term and long-term perspectives. <i>Transportation Research Part D: Transport and Environment</i> , 69:209-223. ISSN 1361-9209, Available at: <a href="https://doi.org/10.1016/j.trd.2019.01.027">https://doi.org/10.1016/j.trd.2019.01.027</a>	PEVs	Well to wheel	GHG emissions
Kawamoto, R., H. Mochizuki, Y. Moriguchi, T. Nakano, M. Motohashi, Y. Sakai, and A. Inaba. 2019. Estimation of CO2 emissions of internal combustion engine vehicle and battery electric vehicle using LCA. <i>Sustainability</i> 11(9):2690.	EVs, EV lithium-ion batteries	Cradle to grave	Energy requirements, GHG emissions
Kelly, J.C., Q. Dai, Q. and M. Wang. 2020. Globally regional life cycle analysis of automotive lithium-ion nickel manganese cobalt batteries. <i>Mitigation and Adaptation Strategies for Global Change</i> . 25:371–396. Available at: <a href="https://doi.org/10.1007/s11027-019-09869-2">https://doi.org/10.1007/s11027-019-09869-2</a>	EV lithium-ion batteries	Various	Energy requirements, GHG emissions, SO <sub>x</sub> emissions



Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
Kelly, J. C., J. L. Sullivan, A. Burnham, and A. Elgowainy. 2015. Impacts of Vehicle Weight Reduction via Material Substitution on Life-Cycle Greenhouse Gas Emissions. <i>Environmental Science &amp; Technology</i> 49(20):12535–12542. doi:10.1021/acs.est.5b03192.	AHSS, wrought aluminum, cast aluminum, magnesium, carbon fiber reinforced polymers, lightweighting	Cradle to grave	GHG emissions
Keoleian, G. A., and K. Kar. 1999. Life Cycle Design of Air Intake Manifolds. In: Phase I: 2.0 L Ford Contour Air Intake Manifold. EPA/600/R-99/023. US Environmental Protection Agency. National Risk Management Research Laboratory: Cincinnati, Ohio. Available at: < <a href="http://nepis.epa.gov/EPA/html/DLwait.htm?url=/Exe/ZyPDF.cgi?Dockey=P1006GAR.PDF">http://nepis.epa.gov/EPA/html/DLwait.htm?url=/Exe/ZyPDF.cgi?Dockey=P1006GAR.PDF</a> >. (Accessed: February 28, 2018).	Aluminum, nylon composite	Cradle to grave	Energy requirements, GHG emissions, solid waste, air emissions, water effluents
Khanna, V., and B. R. Bakshi. 2009. Carbon Nanofiber Polymer Composites: Evaluation of Life Cycle Energy Use. <i>Environmental Science &amp; Technology</i> 43(6):2078–2084. doi:10.1021/es802101x.	Polymer nanocomposite, CNF and CNF-GF hybrid polymer, carbon nanofiber-reinforced polymer nanocomposite, carbon nanofiber glass-fiber hybrid PNCs, steel	Cradle to gate and use stage	Energy requirements
Kim, H. J., C. McMillian, G. A. Keoleian, and S. J. Skerlos. 2010a. Greenhouse Gas Emissions Payback for Lightweighted Vehicles Using Aluminum and High - Strength Steel. <i>Journal of Industrial Ecology</i> 14(6):929–946. doi:10.1111/j.1530-9290.2010.00283x.	Lightweighting, aluminum, HSS	Cradle to grave	GHG emissions
Kim, H. J., G. A. Keoleian, and S. J. Skerlos. 2010b. Economic Assessment of Greenhouse Gas Emissions Reduction by Vehicle Lightweighting Using Aluminum and High Strength Steel. <i>Journal of Industrial Ecology</i> 15(1):64–80. doi:10.1111/j.1530-9290.2010.00288x.	Lightweighting, aluminum, HSS, steel, glass-fiber reinforced plastic	Cradle to grave	Energy requirements, GHG emissions

**Appendix C Life-Cycle Assessment Studies**

Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
<p>Kim, H. C., T. J. Wallington, J. L. Sullivan, and G. Keoleian. 2015. Life Cycle Assessment of Vehicle Lightweighting: Novel Mathematical Methods to Estimate Use-Phase Fuel Consumption. <i>Environmental Science &amp; Technology</i> 49(16):10209–10216. doi:10.1021/acs.est.5b01655.</p>	<p>Lightweighting, fuel reduction value estimation, magnesium, carbon fiber composites</p>	<p>Cradle to gate</p>	<p>GHG emissions</p>
<p>Kocańda, A., and H. Sadłowska. 2008. Automotive Component Development by Means of Hydroforming. <i>Archives of Civil and Mechanical Engineering</i> 8(3):55–72. doi:10.1016/S1644-9665(12)60163-0.</p>	<p>Hydroforming</p>	<p>Not an LCA, but focuses on manufacturing and design, with some attention to use</p>	<p>Some discussion of fuel efficiency savings, but not quantified</p>
<p>Koffler, C., and J. Provo. 2012. Comparative Life Cycle Assessment of Aluminum and Steel Truck Wheels. Prepared by PE International, Inc. and Five Winds Strategic Consulting for Alcoa, Inc. Available at: <a href="http://www.alcoawheels.com/alcoawheels/north_america/en/pdf/Alcoa_Comparative_LCA_of_Truck_Wheels_with_CR_statement.pdf">http://www.alcoawheels.com/alcoawheels/north_america/en/pdf/Alcoa_Comparative_LCA_of_Truck_Wheels_with_CR_statement.pdf</a>. (Accessed: February 28, 2018).</p>	<p>Truck wheels, aluminum, steel</p>	<p>Cradle to grave</p>	<p>Primary energy demand, acidification potential, eutrophication potential, GHG emissions, ozone depletion potential, smog formation potential, human toxicity, eco-toxicity</p>
<p>Kulkarni, S., D. Edwards, E. A. Parn, and C. Chapman 2018. Evaluation of vehicle lightweighting to reduce greenhouse gas emissions with focus on magnesium substitution. <i>Journal of Engineering Design and Technology</i>, ISSN: 1726-0531. October.</p>	<p>Lightweighting, magnesium, HSSI, aluminum</p>	<p>Use phase</p>	<p>Fuel use, GHG emissions</p>
<p>Kumar, D., R. K. Phanden, and L. Thakur. 2020. A review on environment friendly and lightweight magnesium-based metal matrix composites and alloys. <i>Materials Today: Proceedings</i>. August. Available at: <a href="https://www.researchgate.net/publication/343653393">https://www.researchgate.net/publication/343653393</a></p>	<p>Magnesium</p>	<p>Well to wheel</p>	<p>Material sourcing</p>
<p>Lamb, B.K., S. L. Edburg, T. W. Ferrara, T. Howard, M. R. Harrison, C. E. Kolb, A. Townsend-Small, W. Dyck, A. Possolo and J. R. Whetstone., 2015. Direct measurements show decreasing methane emissions from natural gas local distribution systems in the United States. <i>Environmental Science &amp; Technology</i> 49(8):5161-5169. doi: 10.1021/es505116p. Available at: <a href="https://pubs.acs.org/doi/pdf/10.1021/es505116p">https://pubs.acs.org/doi/pdf/10.1021/es505116p</a>. (Accessed: February 28, 2018).</p>	<p>Natural gas distribution</p>	<p>Cradle to gate (distribution infrastructure)</p>	<p>Methane emissions</p>

Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
Lattanzio, R. K. 2014. Canadian Oil Sands: Life-Cycle Assessments of Greenhouse Gas Emissions. Congressional Research Service. Available at: <a href="https://www.fas.org/sgp/crs/misc/R42537.pdf">https://www.fas.org/sgp/crs/misc/R42537.pdf</a> . (Accessed: February 28, 2018).	Oil sands	Well to wheels	GHG emissions
Laurenzi, I. J. 2015. Life Cycle Assessment of North American Shale Gases. In: <i>Proceedings of the 4th International Gas Processing Symposium</i> . Qatar, October 2014. <i>Advances in Gas Processing</i> 4(317–325). doi:10.1016/B978-0-444-63461-0.50033-X.	Shale oil, electricity generation	Cradle to gate	GHG emissions, water consumption
Laurenzi, I. J., J. A. Bergerson, and K. Motazed. 2016. Life cycle greenhouse gas emissions and freshwater consumption associated with Bakken tight oil. <i>Proceedings of the National Academy of Sciences</i> 113(48), E7672–E7680. doi:10.1073/pnas.1607475113. Available at: <a href="http://www.pnas.org/content/113/48/E7672">http://www.pnas.org/content/113/48/E7672</a> . (Accessed: February 28, 2018).	Shale oil	Well to wheels	GHG emissions, water consumption
Lewandrowski, J., J. Rosenfeld, D. Pape, T. Hendrickson, K. Jaglo, and K. Maffroid. 2020. The Greenhouse Gas Benefits of Corn Ethanol – Assessing Recent Evidence. <i>Biofuels</i> . 11(3):361–375. <a href="https://doi.org/10.1080/17597269.2018.154648">https://doi.org/10.1080/17597269.2018.154648</a> (Accessed January 24, 2022).	Biofuels	Well to wheels	GHG emissions
Li, B., X. Gao, J. Li, and C. Yuan. 2014. Life cycle environmental impact of high-capacity lithium ion battery with silicon nanowires anode for electric vehicles. <i>Environmental Science &amp; Technology</i> 48(5):3047–3055. doi:10.1021/es4037786.	EV lithium-ion batteries	Non-use (cradle to gate and end-of-life)	Abiotic depletion potential, GHG emissions, water pollution, ozone depletion potential, human health impacts, toxic releases
Li, H., W. Zhang, Q. Li, and B. Chen. 2015. Updated CO <sub>2</sub> emission from Mg production by Pidgeon process: Implications for automotive application life cycle. <i>Resources, Conservation and Recycling</i> 100:41–48. doi:10.1016/j.resconrec.2015.04.008.	Magnesium	Not applicable	GHG emissions
Litovitz, A., A. Curtright, S. Abramzon, N. Burger, and C. Samaras. 2013. Estimation of regional air-quality damages from Marcellus Shale natural gas extraction in Pennsylvania. <i>Environmental Research Letters</i> , 8(1):014017. doi:10.1088/1748-9326/8/1/014017. Available at: <a href="http://iopscience.iop.org/article/10.1088/1748-9326/8/1/014017/meta">http://iopscience.iop.org/article/10.1088/1748-9326/8/1/014017/meta</a> . (Accessed: February 28, 2018).	Natural gas production	Cradle to gate	Criteria air pollutants, human health impacts

Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
Liu, G., F. Zhao, Z. Liu, and H. Hao. 2018. The impact of fuel cell vehicle deployment on road transport greenhouse gas emissions: The China case. <i>International Journal of Hydrogen Energy</i> , 43(50)22604-22621, ISSN 0360-3199, Available at: <a href="https://doi.org/10.1016/j.ijhydene.2018.10.088">https://doi.org/10.1016/j.ijhydene.2018.10.088</a> .	Hydrogen fuel cells	Use phase	GHG emissions
Liu, G., and D. Muller. 2012. Addressing sustainability in the aluminum industry: a critical review of life cycle assessments. <i>Journal of Cleaner Production</i> 35:108–117. doi:10.1016/j.jclepro.2012.05.030.	Aluminum manufacturing, recycling	Not applicable	GHG emissions
Lloyd, S. M., and L. B. Lave. 2003. Life Cycle Economic and Environmental Implications of Using Nanocomposites in Automobiles. <i>Environmental Science &amp; Technology</i> 37(15):3458–3466. doi:10.1021/es026023q.	Steel, aluminum, clay-polypropylene nanocomposite	Cradle to gate	Energy requirements, GHG emissions, criteria air pollutants, fuel/ electricity use, resource depletion, water use, hazardous waste generation, toxic releases
Luk, J. M., H. C. Kim, R. De Kleine, T. J. Wallington, and H. L. MacLean. Review of the Fuel Saving, Life Cycle GHG Emission, and Ownership Cost Impacts of Lightweighting Vehicles with Different Powertrains. <i>Environmental Science &amp; Technology</i> 51 (15):8215-8228. doi: 10.1021/acs.est.7b00909.	Lightweighting, EVs, internal combustion vehicles, HEVs, powertrain sizing	Cradle to grave	Energy requirements, GHG emissions
Lutsey, N., J. Regnier, A. Burke, M. Melaina, J. Bremson, and M. Keteltas. 2006. Institute of Transportation Studies. University of California, Davis. UCD—ITS—RR—06-11. Available at: <a href="https://itspubs.ucdavis.edu/wp-content/themes/ucdavis/pubs/download_pdf.php?id=1044">https://itspubs.ucdavis.edu/wp-content/themes/ucdavis/pubs/download_pdf.php?id=1044</a> . (Accessed: February 28, 2018).	Tires, TPMS	Not applicable	Fuel use, energy requirements, waste generation
Lyon, D. R., D. Zavala-Araiza, R. A. Alvarez, R. Harriss, V. Palacios, X. Lan, R. Talbot, T. Lavoie, P. Shepson, T. I. Yacovitch, and S. C. Herndon. 2015. Constructing a spatially resolved methane emission inventory for the Barnett Shale region. <i>Environmental Science &amp; Technology</i> , 49(13):8147-8157. doi:10.1021/es506359c. Available at: <a href="https://pubs.acs.org/doi/abs/10.1021/es506359c">https://pubs.acs.org/doi/abs/10.1021/es506359c</a> . (Accessed: February 28, 2018).	Natural gas production	Cradle to gate	Methane emissions

Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
<p>McLaren, J., J. Miller, E. O'Shaughnessy, E. Wood, and E. Shapiro. 2016. Emissions Associated with Electric Vehicle Charging: Impact of Electricity Generation Mix, Charging Infrastructure Availability, and Vehicle Type. NREL/TP-6A20-64852. April 2016. National Renewable Energy Laboratory. Available at: <a href="https://www.afdc.energy.gov/uploads/publication/ev_emissions_impact.pdf">https://www.afdc.energy.gov/uploads/publication/ev_emissions_impact.pdf</a>. (Accessed: February 28, 2018).</p>	<p>EVs, electricity generation</p>	<p>Cradle to gate</p>	<p>GHG emissions</p>
<p>Marchese, A. J., T. L. Vaughn, D. J. Zimmerle, D. M. Martinez, L. L. Williams, A. L. Robinson, A. L. Mitchell, R. Subramanian, D. S. Tkacik, J. R. Roscioli, and S. C. Herndon. 2015. Methane emissions from United States natural gas gathering and processing. <i>Environmental Science &amp; Technology</i>. 49(17):10718–10727. doi: 10.1021/acs.est.5b02275. Available at: <a href="https://pubs.acs.org/doi/abs/10.1021/acs.est.5b02275">https://pubs.acs.org/doi/abs/10.1021/acs.est.5b02275</a>. (Accessed: February 28, 2018).</p>	<p>Natural gas production</p>	<p>Cradle to gate</p>	<p>Methane emissions</p>
<p>Mayyas, A. T., A. Qattawi, A. R. Mayyas, and M. A. Omar. 2012a. Life cycle assessment-based selection for a sustainable lightweight body-in-white design. <i>Energy</i> 39(1):412–425. doi:doi.org/10.1016/j.energy.2011.12.033.</p>	<p>Lightweighting, HSS, aluminum, magnesium, carbon fiber/epoxy composite, glass fiber composite</p>	<p>Cradle to grave</p>	<p>Energy requirements, GHG emissions</p>
<p>Meng, F., J. McKechnie, T. Turner, K. H. Wong, and S. J. Pickering. 2017. Environmental Aspects of Use of Recycled Carbon Fiber Composites in Automotive Applications. <i>Environmental Science &amp; Technology</i> 51 (21), 12727-12736. <a href="https://pubs.acs.org/doi/10.1021/acs.est.7b04069">https://pubs.acs.org/doi/10.1021/acs.est.7b04069</a></p>	<p>Recycled carbon fiber composites</p>	<p>Not applicable</p>	<p>Energy demand, GHG intensity</p>
<p>Miao, Y., P. Hynan, A. von Jouanna, and A. Yokochi. 2019. Current Li-ion Battery Technologies in Electric Vehicles and Opportunities for Advancements. <i>Energies</i>. 12(6):1074.</p>	<p>Lithium-ion batteries</p>	<p>Not applicable</p>	<p>Technology assessment</p>
<p>Milovanoff, A., H. C. Kim, R. De Kleine, T. J. Wallington, I. D. Posen, and H. L. MacLean. 2019. A Dynamic Fleet Model of U.S. Light-Duty Vehicle Lightweighting and Associated Greenhouse Gas Emissions from 2016 to 2050. <i>Environmental Science &amp; Technology</i> 53: 2199–2208. doi.org/10.1021/acs.est.8b04249.</p>	<p>Lightweighting, HSS, aluminum</p>	<p>Cradle to grave</p>	<p>GHG emissions</p>

Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
Modaresi, R., S. Pauliuk, A. N. Løvik, and D. B. Müller. 2014. Global Carbon Benefits of Material Substitution in Passenger Cars until 2050 and the Impact on the Steel and Aluminum Industries. <i>Environmental Science &amp; Technology</i> 48(18):10776–10784. doi: 10.1021/es502930w. Available at: <a href="http://pubs.acs.org/doi/pdf/10.1021/es502930w">http://pubs.acs.org/doi/pdf/10.1021/es502930w</a> . (Accessed: February 28, 2018).	HSS, aluminum	Cradle to gate (fleet-wide impacts)	GHG emissions
Mohapatra, S., and S. Das. 2014. Introduction of High Strength Steel for Commercial Vehicles—Light Weighting of Vehicles. Society of Automotive Engineers (SAE) Technical Paper 2014-28-0002. doi:10.4271/2014-28-0002.	Lightweighting, HSS	Not applicable	Energy requirements, GHG emissions
Mohr, M., J. F. Peters, M. Baumann, and M. Weil. 2020. Toward a cell-chemistry specific life cycle assessment of lithium-ion battery recycling processes. <i>Journal of Industrial Ecology</i> 24 (6): 1310–1322. <a href="https://doi.org/10.1111/jiec.13021">https://doi.org/10.1111/jiec.13021</a> . (Accessed: January 9, 2022)	Lithium-ion batteries	End of life	GHG emissions, energy requirements, abiotic resource depletion potential
Morales, M., J. Quintero, R. Conejeros, and G. Aroca. 2015. Life cycle assessment of lignocellulosic bioethanol: environmental impacts and energy balance. <i>Renewable and Sustainable Energy Reviews</i> 42:1349–1361. doi:10.1016/j.rser.2014.10.097.	Lignocellulosic bioethanol	Well to wheels	GHG emissions, energy requirements
Munjurulimana, D., A. Kulkarni, D. Nagwanshi, J. Thambi, et al. 2016. Society of Automotive Engineers (SAE) Paper 2016-01-0399. Body-in-White Reinforcements for Light-Weight Automobiles. doi:10.4271/2016-01-0399.	Thermoplastics, polymer composites	Not applicable	Not applicable
Murphy, C. W. and A. Kendall. 2015. Life cycle analysis of biochemical cellulosic ethanol under multiple scenarios. <i>Gcb Bioenergy</i> 7(5):1019–1033. doi:10.1111/gcbb.12204.	Corn stover and switchgrass biochemical cellulosic ethanol, petroleum-based liquid fuels	Field to blending terminal	GHG emissions, air pollutants (CO, NO <sub>x</sub> , SO <sub>x</sub> , PM, Pb, ozone, and NMVOCs), environmental indicators including global warming potential, acidification potential, eutrophication potential, and fossil energy
Nealer, R., and T. P. Hendrickson. 2015. Review of recent lifecycle assessments of energy and greenhouse gas emissions for electric vehicles. <i>Current Sustainable/Renewable Energy Reports</i> 2(3):66–73. doi:10.1007/s40518-015-0033x. Available at: <a href="https://link.springer.com/article/10.1007/s40518-015-0033-x">https://link.springer.com/article/10.1007/s40518-015-0033-x</a> . (Accessed: February 28, 2018).	EVs	Various	GHG emissions

Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
NETL (National Energy Technology Laboratory). 2015. Approaches to Developing a Cradle-to-Grave Life Cycle Analysis of Conventional Petroleum Fuels Produced in the U.S. with an Outlook to 2040. DOE/NETL-2016/1749. October 2015. Available at: <a href="https://www.netl.doe.gov/energy-analyses/temp/ApproachestoDevelopingaCradle-to-GravelCAofConvPetroleumFuelsProducedinUSOutlookto2040_100715.pdf">https://www.netl.doe.gov/energy-analyses/temp/ApproachestoDevelopingaCradle-to-GravelCAofConvPetroleumFuelsProducedinUSOutlookto2040_100715.pdf</a> . (Accessed: February 28, 2018).	Conventional oil production	Well to wheel	GHG emissions
Nitta, S. and Y. Moriguchi. 2011. New Methodology of Life Cycle Assessment for Clean Energy Vehicle and New Car Model. Society of Automotive Engineers (SAE) Technical Paper 2011-01-0851. doi:10.4271/2011-01-0851.	Hydrogen fuel cells	Cradle to grave	GHG emissions, waste generation, energy requirements
Notter, D. A., M. Gauch, R. Widmer, P. Wäger, A. Stamp, R. Zah, and H-J. Althaus. 2010. Contribution of Li-ion Batteries to the Environmental Impact of Electric Vehicles. <i>Environmental Science &amp; Technology</i> 44(17):6550–6556. doi:10.1021/es903729a. Available at: <a href="http://pubs.acs.org/doi/ipdf/10.1021/es903729a">http://pubs.acs.org/doi/ipdf/10.1021/es903729a</a> . (Accessed: February 28, 2018).	EV lithium-ion batteries	Cradle to grave	Energy requirements, GHG emissions/global warming potential, criteria air pollutants, resource depletion, Ecoindicator 99
OECD. 2020. Non-exhaust Particulate Emissions from Road Transport: An Ignored Environmental Policy Challenge, <i>OECD Publishing</i> . <a href="https://doi.org/10.1787/4a4dc6ca-en">https://doi.org/10.1787/4a4dc6ca-en</a> . <a href="https://www.oecd-ilibrary.org/sites/4a4dc6ca-en/index.html?itemId=/content/publication/4a4dc6ca-en">https://www.oecd-ilibrary.org/sites/4a4dc6ca-en/index.html?itemId=/content/publication/4a4dc6ca-en</a> . Accessed April 23, 2021.	Tires, EVs, roads	Use phase	PM and GHG emissions
Onat, N. C., M. Kucukvar, and O. Tatari. 2015. Conventional, hybrid, plug-in hybrid or electric vehicles? State-based comparative carbon and energy footprint analysis in the United States. <i>Applied Energy</i> 150:36–49. doi:10.1016/j.apenergy.2015.04.001.	HEVs, PHEVs, EVs	Cradle to grave and well to wheels	GHG emissions, energy requirements
Ou, X., Zhang, X., Zhang, X., Zhang, Q. 2013. Life Cycle GHG of NG-Based Fuel and Electric Vehicle in China. <i>Energies</i> , 6: 2644–2662.	Natural gas–fueled EVs	Well to wheels	GHG emissions, energy use
Overly, J. G., R. Dhingra, G. A. Davis, and S. Das. 2002. Environmental Evaluation of Lightweight Exterior Body Panels in New Generation Vehicles. Paper 2002-01-1965. Society of Automotive Engineers (SAE) International. doi:10.4271/2002-01-1965.	Aluminum, carbon-fiber-reinforced polymer, glass-fiber-reinforced polymer	Cradle to grave	CO <sub>2</sub> emissions, PM emissions, eutrophication, photochemical smog, solid and hazardous waste generation, water quality

**Appendix C Life-Cycle Assessment Studies**

Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
Palazzo, J., and R. Geyer. 2019. Consequential life cycle assessment of automotive material substitution: Replacing steel with aluminum in production in north American vehicles. <i>Environmental Impact Assessment Review</i> 75:47–58. doi.org/10.1016/j.eiar.2018.12.001.	Lightweighting, HSS, aluminum	Cradle to grave	GHG emissions, energy requirements
Park, D.-H. and Kwon, H.-H. 2015. Development of Warm Forming Parts for Automotive Body Dash Panel Using AZ31b Magnesium Alloy Sheets. <i>International Journal of Precision Engineering Manufacturing</i> . 16(10):2159–2165. Available at: <a href="https://doi.org/10.1007/S12541-015-0278-8">https://doi.org/10.1007/S12541-015-0278-8</a>	Magnesium	Well to wheel	Manufacturing impacts
Patterson, J., M. Alexander, and A. Gurr. 2011. Preparing for a Life Cycle CO2 Measure. Ricardo plc and Low Carbon Vehicle Partnership. RD.11/124801.4. Available at: <a href="http://www.lowcvp.org.uk/assets/presentations/1405%20Patterson,%20Ricardo%20-%20life-cycle%20assessment%20(LC%20seminar).pdf">http://www.lowcvp.org.uk/assets/presentations/1405%20Patterson,%20Ricardo%20-%20life-cycle%20assessment%20(LC%20seminar).pdf</a> . (Accessed: February 28, 2018).	Gasoline vehicles, diesel vehicles, PHEVs, EREVs, EVs, FCEVs	Not applicable	GHG emissions
PE International. 2012. Life Cycle Assessment of Polymers in an Automotive Assist Step. Prepared for the American Chemistry Council. Boston, MA. Available at: <a href="https://plastics.americanchemistry.com/Education-Resources/Publications/Life-Cycle-Assessment-of-Polymers-in-an-Automotive-Assist-Step.pdf">https://plastics.americanchemistry.com/Education-Resources/Publications/Life-Cycle-Assessment-of-Polymers-in-an-Automotive-Assist-Step.pdf</a> . (Accessed February 28, 2018).	Carbon fiber reinforced polymers	Cradle to grave	GHG emissions, energy requirements
Peters, D.R., J. L. Schnell, P. L. Kinney, V. Naik, and D. E. Horton. 2020. Public Health and Climate Benefits and Trade - Offs of U.S. Vehicle Electrification. <i>Geohealth</i> , 4(10), <a href="https://doi.org/10.1029/2020GH000275">https://doi.org/10.1029/2020GH000275</a>	EVs	Cradle to grave	Public health, PM, ozone, financial risk
Pike, E., and S. Schneider. 2013. Passenger Vehicle Replacement Tire Efficiency Study. Energy Solutions. Prepared for South Coast Air Quality Management District. Available at: <a href="https://energy-solution.com/library-item/passenger-vehicle-replacement-tire-efficiency-study/">https://energy-solution.com/library-item/passenger-vehicle-replacement-tire-efficiency-study/</a> . (Accessed: February 28, 2018).	Aerodynamics and drag reduction	Not applicable	Fuel use
Raugei, M., D. Morrey, A. Hutchinson, and P. Winfield. 2015. A coherent life cycle assessment of a range of lightweighting strategies for compact vehicles. <i>Journal of Cleaner Production</i> 108:1168–1176. doi: doi.org/10.1016/j.jclepro.2015.05.100.	Aluminum, magnesium, carbon fiber reinforced polymers	Cradle to grave	GHG emissions criteria pollutants, energy requirements
Rooks, B. 2001. Tailor-Welded Blanks Bring Multiple Benefits to Car Design. <i>Assembly Automation</i> 21(4):323–329. doi:10.1108/EUM0000000006014.	Tailor-welded blanks	Not applicable	Not applicable



Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
Rosenfeld, J., J. Lewandowski, T. Hendrickson, K. Jaglo, K. Moffroid, and D. Pape. 2018. A Life-Cycle Analysis of the Greenhouse Gas Emissions from Corn-Based Ethanol. Report prepared by ICF under USDA Contract No. AG-3142-D-17-0161. September 5, 2018.	Corn ethanol	Well to wheels	GHG emissions
Roy, P., F. Defersha, A. Rodriguqz-Urbe, M. Manjusri, and A. K. Mohanty. 2020. Evaluation of the life cycle of an automotive component produced from biocomposite. <i>Journal of Cleaner Production</i> , 273(10), Available at: <a href="https://doi.org/10.1016/j.jclepro.2020.123051">https://doi.org/10.1016/j.jclepro.2020.123051</a>	Biocomposites	Production through use	GHG emissions
Ryan, N. A., J. X. Johnson, and G. A. Keoleian. 2016. Comparative Assessment of Models and Methods to Calculate Grid Electricity Emissions. <i>Environmental Science &amp; Technology</i> . 50(17):8937–8953. doi: 10.1021/acs.est.5b05216.	EVs, electricity generation	Well to tank	GHG emissions
Sakunai, T., L. Ito, and A. Tokai. 2021. Environmental impact assessment on production and material supply stages of lithium-ion batteries with increasing demands for electric vehicles. <i>Journal of Material Cycles and Waste Management</i> . 23: 470–479. Available at: <a href="https://doi.org/10.1007/s10163-020-01166-4">https://doi.org/10.1007/s10163-020-01166-4</a>	EV lithium-ion batteries	Cradle to gate	GHG emissions
Samaras, C, and K. Meisterling. 2008. Life cycle assessment of greenhouse gas emissions from plug-in hybrid vehicles: implications for policy. <i>Environmental Science &amp; Technology</i> 42(9):3170–3176. doi:10.1021/es702178s. Available at: <a href="https://pubs.acs.org/doi/abs/10.1021/es702178s">https://pubs.acs.org/doi/abs/10.1021/es702178s</a> . (Accessed: February 28, 2018).	Batteries (NiMH and lithium-ion)	Cradle to gate	Energy requirements, GHG emissions
Sambamurthy, S., S. Raghuvanshi, and K. S. Sangwan. 2021. Environmental Impact of Recycling Spent Lithium-Ion Batteries. 28 <sup>th</sup> CIRP Conference on Life Cycle Engineering. <i>Procedia CIRP</i> 98: 631-636. <a href="https://doi.org/10.1016/j.procir.2021.01.166">https://doi.org/10.1016/j.procir.2021.01.166</a> (Accessed: January 24, 2022).	Lithium-ion batteries	End of life	GHG emissions, toxicity
Sathre, R., C. D. Scown, O. Kavvada, and T. P. Hendrickson. 2015. Energy and climate effects of second-life use of electric vehicle batteries in California through 2050. <i>Journal of Power Sources</i> . 288:82-91. doi: 10.1016/j.jpowsour.2015.04.097.	EV lithium-ion batteries, energy storage systems	Cradle to grave	Energy requirements, GHG emissions
Saur, K., M. Schuckert, J. Gediga, H. Florin, and J. Hesselbach. 1997. LCA Study on Tires With Reduced Roll Resistance. Society of Automotive Engineers (SAE) Technical Paper 971159. Affiliated with PE Product Engineering GmbH and University of Stuttgart, Germany. doi:10.4271/971159.	Tires	Cradle to grave (excluding end-of-life)	Fuel use, energy requirements, GHG emissions, water pollution

**Appendix C Life-Cycle Assessment Studies**

Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
Scheller, C., S. Blömeke, M. Nippraschk, K. Schmidt, M. Mennenga, T.S. Spengler, C. Herrmann, and D. Goldmann. 2021. Coordinated Planning in Closed-loop Supply Chains and its Implications on the Production and Recycling of Lithium-ion Batteries. 28 <sup>th</sup> CIRP Conference on Life Cycle Engineering. <i>Procedia CIRP</i> 98: 464-469. <a href="https://doi.org/10.1016/j.procir.2021.01.135">https://doi.org/10.1016/j.procir.2021.01.135</a> . (Accessed January 20, 2022).	Lithium-ion batteries	Production and end of life	Resource supply
Scown, C. D., W. W. Nazaroff, U. Mishra, B. Strogon, A. B. Lobscheid, E. Masanet, N. J. Santero, A. Horvath, and T. E. McKone. 2012. Lifecycle greenhouse gas implications of US national scenarios for cellulosic ethanol production. <i>Environmental Research Letters</i> 7(1):014011. doi:10.1088/1748-9326/7/1/019502. Available at: <a href="http://iopscience.iop.org/article/10.1088/1748-9326/7/1/014011a">http://iopscience.iop.org/article/10.1088/1748-9326/7/1/014011a</a> . (Accessed: February 28, 2018).	Cellulosic ethanol	Gate to gate (land-use impacts)	GHG emissions
Searchinger, T., R. Heimlich, R. A. Houghton, F. Dong, A. Elobied, J. Fabiosa, S. Tokgoz, D. Hayes, and T.-H. Yu. 2008. Use of U.S. Croplands for Biofuels Increases Greenhouse Gases through Emissions from Land-Use Change. <i>Science</i> 319(5867):1238–1240. doi:10.1126/science.1151861. Available at: <a href="http://science.sciencemag.org/content/319/5867/1238.full">http://science.sciencemag.org/content/319/5867/1238.full</a> . (Accessed: February 28, 2018).	Corn ethanol, biomass ethanol	Well to wheels	GHG emissions
Sebastian, B. M., and M. A. Thimons. 2017. Life Cycle Greenhouse Gas and Energy Study of Automotive Lightweighting. Prepared for Steel Recycling Institute. Available at: <a href="https://shop.steel.org/products/life-cycle-greenhouse-gas-and-energy-study-of-automotive-lightweighting-full-report">https://shop.steel.org/products/life-cycle-greenhouse-gas-and-energy-study-of-automotive-lightweighting-full-report</a> . (Accessed: July 25, 2019).	Lightweighting, HSS, aluminum	Cradle to grave	Energy requirements, GHG emissions
Sebastian, B. M., M. A. Thimons, and K. Mahbubani. 2018. Consequential Life Cycle Greenhouse Gas Study of Automotive Lightweighting with Advanced High Strength Steel (AHSS) and Aluminum. Prepared for Steel Recycling Institute and Steel Market Development Institute. Available at: <a href="https://shop.steel.org/products/consequential-life-cycle-greenhouse-gas-study-of-automotive-lightweighting-with-advanced-high-strength-steel-ahss-and-aluminum">https://shop.steel.org/products/consequential-life-cycle-greenhouse-gas-study-of-automotive-lightweighting-with-advanced-high-strength-steel-ahss-and-aluminum</a> . (Accessed: July 25, 2019).	Lightweighting, HSS, aluminum	Cradle to grave	Energy requirements, GHG emissions

Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
Shanmugam, K., V. Gadhamshetty, P. Yadav, D. Athanassiadis, M. Tyskland, and V.K.K. Upadhyayula. 2019. Advanced High-Strength Steel and Carbon Fiber Reinforced Polymer Composite Body in White for Passenger Cars: Environmental Performance and Sustainable Return on Investment under Different Propulsion Modes. <i>ACS Sustainable Chemistry &amp; Engineering</i> . 7(5): 4951-4963. Available at: <a href="https://pubs.acs.org/doi/pdf/10.1021/acssuschemeng.8b05588">https://pubs.acs.org/doi/pdf/10.1021/acssuschemeng.8b05588</a>	Lightweighting, HSS, plastics and polymer composites	Cradle to grave	GHG emissions
Siler-Evans, K., I. Azevedo, and G. Morgan. 2012. Marginal emissions factors for the U.S. electricity system. <i>Environmental Science &amp; Technology</i> . 46(9):4742–4748. doi: 10.1021/es300145v.	Electricity generation	Fuel combustion	GHG emissions
Sivertsen, L. K., J. Ö. Haagenen, and D. Albright. 2003. A Review of the Life Cycle Environmental Performance of Automotive Magnesium. Society of Automotive Engineers (SAE) Paper 2003-01-0641. March 3, 2003. doi:10.4271/2003-01-0641.	Magnesium, aluminum	Cradle to grave	Recycled materials
Shan, Z., S. Qin, Q. Liu, and F. Liu. 2012. Key Manufacturing Technology and Equipment for Energy Saving and Emissions Reduction in Mechanical Equipment Industry. <i>International Journal of Precision Engineering and Manufacturing</i> 13(7):1095–1100. doi:10.1007/s12541-012-0143y.	Digital technology, new material, near-net shape forming technology, clean production, short production process technology, waste-free manufacturing technology, automatic control technology, remanufacturing and reusing technology	Cradle to grave	Energy requirements, GHG emissions
Shinde, P., K. Ravis, N. Nehru, S. Pawar, B. Balakrishnan, and V. Nair. 2016. Light Weight BIW Solutions for Improving Functional Properties: A Review. Society of Automotive Engineers (SAE) Paper 2016-01-8138. doi:10.4271/2016-01-8138.	Magnesium, aluminum, polymer composites, tailored blanks, hydroforming, welding, die casting	Not applicable	GHG emissions

**Appendix C Life-Cycle Assessment Studies**

Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
Smirnov, E. N., V. A. Sklyar, M. V. Mitrofanov, O. E. Smirnov, V. A. Belevitin, and A. N. Smirnov. 2018. Complete Evaluation of extruded Aluminum Section and Semiproduct Mechanical Properties Under Conditions of Typical Regional Manufacturer Altek. <i>Metallurgist</i> . 61(9/10): 878-883. January 29.	Aluminum casting and extrusion	Well to wheel	Sustainability
Spitzley, D. V., and G. A. Keoleian. 2001. Life Cycle Design of Air Intake Manifolds. In: Phase II: Lower Plenum of the 5.4: F-250 Intake Manifold, Including Recycling Scenarios. US Environmental Protection Agency (Eds.). National Risk Management Research Laboratory: Cincinnati, OH.	5.4-liter Ford F-250 with three different air intake manifolds: (1) a 2.89-kilogram lost-core composite used in most of the 5.4 liter engines, (2) a 5.58-kilogram sand-cast aluminum manifold currently used in Ford's 5.4-liter natural gas vehicles, and (3) a 2.89-kilogram vibration welded composite	Cradle to grave	Energy, solid waste, air pollutant emissions, GHG emissions, water pollution discharges
Sproesser, G., Y. Chang, A. Pittner, M. Finkbender, and M. Rethmeier. 2015. Life Cycle Assessment of welding technologies for thick metal plate welds. <i>Journal of Cleaner Production</i> 108:46–53. doi: 10.1016/j.jclepro.2015.06.121.	Manual metal Arc welding, automatic laser-arc hybrid welding, and gas metal Arc welding	Cradle to grave	GHG emissions, criteria pollutants
Sternberg, A., and A. Bardow. 2015. Power-to-What? –Environmental assessment of energy storage systems. <i>Energy &amp; Environmental Science</i> 8.2 (2015):389–400. doi:10.1039/C4EE03051F.	Vanadium redox flow batteries, energy storage systems	Cradle to grave	GHG emissions, energy requirements
Stodolsky, F., A. Vyas, R. Cuenca, and L. Gaines. 1995. Life-Cycle Energy Savings Potential from Aluminum-Intensive Vehicles. Argonne National Laboratory. Conference Paper. 1995 Total Life Cycle Conference & Exposition. October 16–19, 1995. Vienna, Austria. doi:10.4271/951837.	Lightweighting, aluminum, and recycling technology	Cradle to grave	Energy requirements and fuel use

Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
Subadra, S. P., S. Yousef, P. Griskevicius, and V. Makarevicius. 2020. High-performance fiberglass/epoxy reinforced by functionalized CNTs for vehicle applications with less fuel consumption and greenhouse gas emissions. <i>Polymer Testing</i> , 86(1).	Plastics and polymer composites	Not applicable	Fuel consumption and GHG emissions
Sullivan, J. L., A. Burnham, and M. Wang. 2010. Energy-Consumption and Carbon-Emission Analysis of Vehicle and Component Manufacturing. ANL/ESD/10-6. Argonne National Laboratory: Argonne, IL. September 2010. Available at: <a href="http://greet.es.anl.gov/publication-vehicle_and_components_manufacturing">http://greet.es.anl.gov/publication-vehicle_and_components_manufacturing</a> . (Accessed: February 28, 2018).	Aluminum, steel, iron, plastics, polymer, brass, copper, and lead	Gate to gate	None
Sun, J., M. Zheng, Y. Luo, and Z. Yu. 2019. Three-dimensional detached serpentine flow field design for redox flow batteries. <i>Journal of Power Sources</i> . 428:136–145.	Vanadium redox flow batteries	Not applicable	Voltage and energy efficiencies
Suresh, S., A. Suresh, S.P. Regalla, P.V. Ramana, and O. Vamshikrishna. 2020. Sustainability aspects in the warm forming of tailor welded blanks. E3S Web of Conferences 184. August 19. Available at: <a href="https://doi.org/10.1051/e3sconf/202018401042">https://doi.org/10.1051/e3sconf/202018401042</a>	Tailor-welded blanks	Well to wheels	Sustainability
Świczko-Żurek, B., G. Ronowski, and J. Ejsmont. 2017. Tyre rolling resistance and its influence on fuel consumption. <i>Combustion Engines</i> . 168(1):62-67. DOI: 10.19206/CE-2017-110	Tires	Use phase	Fuel consumption, energy requirements
Synák, F., A. Kalašová. 2020. Assessing the Impact of the Change in the Tire Pressure on the Rolling Resistance and Fuel Consumption. <i>Advances in Science and Technology Research Journal</i> , 14(3):100–106. Available at: <a href="https://doi.org/10.12913/22998624/120801">https://doi.org/10.12913/22998624/120801</a>	Tires	Use phase	Fuel consumption
Tamayao, M. A. M., J. J. Michalek, C. Hendrickson, and I. M. Azevedo. 2015. Regional variability and uncertainty of electric vehicle life cycle CO <sub>2</sub> emissions across the United States. <i>Environmental Science &amp; Technology</i> 49(14):8844-8855. doi:10.1021/acs.est.5b00815.	EVs, PHEVs, HEVs	Well to wheels and battery cradle to gate	GHG emissions
Tapper, R.J., M. L. Longana, A. Norton, K. D. Potter, and I. Hamerton. 2020. An evaluation of life cycle assessment and its application to the closed-loop recycling of carbon fibre reinforced polymers. <i>Composites Part B: Engineering</i> . 184. March 1. Available at: <a href="https://www.sciencedirect.com/science/article/abs/pii/S1359836819325405?via%3Dihub">https://www.sciencedirect.com/science/article/abs/pii/S1359836819325405?via%3Dihub</a>	Plastics and polymer composites	Recycling	GHG emissions, energy use, recycling

**Appendix C Life-Cycle Assessment Studies**

Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
Tempelman, E. 2011. Multi-Parametric Study of the Effect of Materials Substitution of Life Cycle Energy Use and Waste Generation of Passenger Car Structures. <i>Transportation Research Part D: Transport and Environment</i> 16(7):476–485. doi:10.1016/j.trd.2011.05.007.	Lightweighting, HSS, fiber-reinforced plastics, aluminum	Cradle to grave	Energy requirements, waste generation
Tessum, C. W., J. D. Hill, and J. D. Marshall. 2014. Life cycle air quality impacts of conventional and alternative light-duty transportation in the United States. <i>Proceedings of the National Academy of Sciences</i> 111(52):18490–18495. doi:10.1073/pnas.1406853111.	Gasoline, diesel, CNG, corn ethanol and corn stover, EVs	Well to wheels and battery cradle to gate	GHG emissions, air pollutant emissions including NO <sub>x</sub> , PM, SO <sub>x</sub> , VOCs, NH <sub>3</sub>
Tharumarajah, A., and P. Koltun. 2007. Is There an Environmental Advantage of Using Magnesium Components for Light-Weighting Cars? <i>Journal of Cleaner Production</i> 15(11-12):1007–1013. doi:10.1016/j.jclepro.2006.05.022.	Lightweighting, magnesium, aluminum, and magnesium casting	Cradle to grave	GHG emissions
Thiagarajan et al. 2020. Investigation and Analysis of Properties of Magnesium Alloy for Suitability to Electric Vehicle Components. <i>IOP Conf. Ser.: Mater. Sci. Eng.</i> 993 012007	Magnesium	NA	NA
Theiss, T., T. Alleman, A. Brooker, A. Elgowainy, G. Fioroni, J. Han, S. Huff, C. Johnson, M. Kass, P. Leiby, R. U. Martinez, R. McCormick, K. Moriarty, E. Newes, G. Oladosu, J. Szybist, J. Thomas, M. Wang, and B. West. 2016. Summary of High-Octane Mid-Level Ethanol Blends Study. ORNL/TM-2016/42. July 2016. Prepared by Oak Ridge National Laboratory, National Renewable Energy Laboratory, and Argonne National Laboratory. Available at: <a href="http://info.ornl.gov/sites/publications/files/pub61169.pdf">http://info.ornl.gov/sites/publications/files/pub61169.pdf</a> . (Accessed: February 28, 2018).	HOFs, corn ethanol, corn stover ethanol	Well to wheels	GHG emissions
Tong, F., P. Jaramillo, and I. M. L. Azevedo. 2015. Comparison of Life Cycle Greenhouse Gases from Natural Gas Pathways for Light-Duty Vehicles. <i>Energy Fuels</i> . 29 (9): 6008-6018. doi: 10.1021/acs.energyfuels.5b01063.	EVs, compressed natural gas vehicles, natural gas production	Well to wheels	GHG emissions
Trupia, L., T. Parry, L. Neves, and D. Lo Presti. 2017. Rolling resistance contribution to a road pavement life cycle carbon footprint analysis. <i>The International Journal of Life Cycle Assessment</i> . 22:972–985. Available at: <a href="https://doi.org/10.1007/s11367-016-1203-9">https://doi.org/10.1007/s11367-016-1203-9</a>	Pavement type, tires	Cradle to grave	GHG emissions

Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
Ungureanu, C. A., S. Das, and I. S. Jawahir. 2007. Life - Cycle Cost Analysis: Aluminum Versus Steel in Passenger Cars. Pgs. 11-24 in: Aluminum Alloys for Transportation, Packaging, Aerospace, and Other Applications. S.K. Das and W. Yin (Eds.). The Minerals, Metals & Materials Society (TMS):Orlando, FL. 234 pp.	Lightweighting	Cradle to grave	GHG emissions and energy requirements
Wang, M., M. Wu, and H. Huo. 2007. Life-Cycle Energy and Greenhouse Gas Emission Impacts of Different Corn Ethanol Plant Types. <i>Environmental Research Letters</i> 2 (2007):024001. doi:10.1088/1748-9326/2/2/024001. Available at: <a href="http://iopscience.iop.org/1748-9326/2/2/024001/pdf/erl7_2_024001.pdf">http://iopscience.iop.org/1748-9326/2/2/024001/pdf/erl7_2_024001.pdf</a> . (Accessed: February 28, 2018).	Corn ethanol	Well to wheels	GHG emissions, energy requirements
Wang, M., J. Han, J. B. Dunn, H. Cai, and A. Elgowainy. 2012. Well-to-wheels energy use and greenhouse gas emissions of ethanol from corn, sugarcane and cellulosic biomass for US use. <i>Environmental Research Letters</i> 7(4):045905. doi:10.1088/1748-9326/7/4/045905. Available at: <a href="http://iopscience.iop.org/article/10.1088/1748-9326/7/4/045905">http://iopscience.iop.org/article/10.1088/1748-9326/7/4/045905</a> . (Accessed: February 28, 2018).	Ethanol from corn, sugarcane, and cellulosic biomass	Well to wheels	GHG emissions
Wang, Z., J. B. Dunn, J. Han, and M. Q. Wang. 2015. Influence of corn oil recovery on life-cycle greenhouse gas emissions of corn ethanol and corn oil biodiesel. <i>Biotechnology for Biofuels</i> 8(1):178. doi:10.1186/s13068-015-0350-8. Available at: <a href="https://biotechnologyforbiofuels.biomedcentral.com/articles/10.1186/s13068-015-0350-8">https://biotechnologyforbiofuels.biomedcentral.com/articles/10.1186/s13068-015-0350-8</a> . (Accessed: February 28, 2018).	Corn ethanol, corn oil biodiesel	Well to wheels	GHG emissions
Weber, C. L., and C. Clavin. 2012. Life cycle carbon footprint of shale gas: Review of evidence and implications. <i>Environmental Science &amp; Technology</i> 46(11):5688–5695. doi:10.1021/es300375n.	Shale gas	Well to wire	GHG emissions
Wei, H., Y. Zhang, L. Tan, and Z. Zhong. 2015. Energy efficiency evaluation of hot-wire laser welding based on process characteristic and power consumption. <i>Journal of Cleaner Production</i> 87:255–262. doi:10.1016/j.jclepro.2014.10.009.	Hot wire laser welding, cold wire laser welding	Not applicable	Not applicable
Weis, A., P. Jaramillo, and J. Michalek. 2016. Consequential life cycle air emissions externalities for plug-in electric vehicles in the PJM interconnection. <i>Environmental Research Letters</i> 11(2):024009. doi:10.1088/1748-9326/11/2/024009. Available at: <a href="http://iopscience.iop.org/article/10.1088/1748-9326/11/2/024009">http://iopscience.iop.org/article/10.1088/1748-9326/11/2/024009</a> . (Accessed: February 28, 2018).	PHEVs, HEVs	Cradle to use-phase	GHG emissions, air pollutant emissions including VOCs, CO, NO <sub>x</sub> , PM, SO <sub>2</sub>

**Appendix C Life-Cycle Assessment Studies**

Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
Weiss, M. A., J. B. Heywood, E. M. Drake, A. Schafer, and F. F. AuYeung. 2000. On the Road in 2020: A Lifecycle Analysis of New Automobile Technologies. Energy Laboratory Report MIT EL 00-003. Massachusetts Institute of Technology: Cambridge, MA. Available at: <a href="http://web.mit.edu/energylab/www/pubs/el00-003.pdf">http://web.mit.edu/energylab/www/pubs/el00-003.pdf</a> . (Accessed: February 28, 2018).	Lightweighting, HEVs, EVs, fuel cells, HSS, aluminum, plastics, alternative fuels	Cradle to grave	Energy requirements, GHG emissions
Wessel, J., A. Turetsky, F. Cerdas, and C. Herrmann. 2021. Integrated Material-Energy-Quality Assessment for Lithium-ion Battery Cell Manufacturing. <i>Procedia CIRP</i> , 98:388-393.	EV lithium-ion batteries	Gate to gate	Energy demand
Witik, R. A., J. Payet, V. Michaud, C. Ludwig, and J. E. Manson. 2011. Assessing the Life Cycle Costs and Environmental Performance of Lightweight Materials in Automotive Applications. <i>Composites Part A: Applied Science and Manufacturing</i> . 42:1694–1709. Available at: <a href="https://www.sciencedirect.com/science/article/abs/pii/S1359835X11002302">https://www.sciencedirect.com/science/article/abs/pii/S1359835X11002302</a> . (Accessed: February 28, 2018).	Carbon fiber reinforced polymer	End of life, recycling	GHG emissions
Xiong, S., Y. Wang, B. Bai, and X. Ma. 2021. A hybrid life cycle assessment of the large-scale application of electric vehicles. <i>Energy</i> . 216. Available at: <a href="https://doi.org/10.1016/j.energy.2020.119314">https://doi.org/10.1016/j.energy.2020.119314</a> .	PEVs, HEVs, EVs	Cradle to grave	CO <sub>2</sub> emissions
Volkswagen. 2008. The DSG Dual-Clutch Gearbox Environmental Commendation –Background Report. Available at: <a href="http://www.evosoft.dk/diagrams/ec_dsg_background.pdf">www.evosoft.dk/diagrams/ec_dsg_background.pdf</a> . (Accessed: February 28, 2018).	Dual clutch transmission	Cradle to grave	Energy requirements, fuel use, GHG emissions, air emissions including CO, SO <sub>2</sub> , NO <sub>x</sub> , and NMVOCs, eutrophication, ozone depletion, acidification, raw material consumption
Xu, C., Dai, Q., Gaines, L. <i>et al.</i> Future material demand for automotive lithium-based batteries. 2020. <i>Commun Mater</i> 1, 99. Available at: <a href="https://doi.org/10.1038/s43246-020-00095-x">https://doi.org/10.1038/s43246-020-00095-x</a>	Lithium-ion batteries	Not applicable	Not applicable
Yu, M., B. Bai, X. Ma. 2021. Evaluating Remanufacturing Lithium-Ion Batteries. In: Gutierrez R.M. (eds) <i>Wastewater Technologies and Environmental Treatment</i> . Springer Proceedings in Earth and Environmental Sciences. Springer, Cham. 77–85. Available at: <a href="https://doi.org/10.1007/978-3-030-61989-3_8">https://doi.org/10.1007/978-3-030-61989-3_8</a>	Lithium-ion batteries	Remanufacturing and recycling	GHG emissions



Study Analyzed	Technologies and Materials Covered	Life-Cycle Boundaries <sup>a</sup>	Environmental Impacts Estimated
Zavala-Araiza, D., D. R. Lyon, R. A. Alvarez, K. J. Davis, R. Harriss, S. C. Herndon, A. Karion, E. A. Kort, B. K. Lamb, X. Lan, and A. J. Marchese. 2015. Reconciling divergent estimates of oil and gas methane emissions. <i>Proceedings of the National Academy of Sciences</i> , 112(51):15597–15602. doi:10.1073/pnas.1522126112. Available at: <a href="http://www.pnas.org/content/112/51/15597">http://www.pnas.org/content/112/51/15597</a> . (Accessed: February 28, 2018).	Natural gas production	Cradle to gate	Methane emissions
Zavala-Araiza, D., D. Lyon, R. A. Alvarez, V. Palacios, R. Harriss, X. Lan, R. Talbot, and S. P. Hamburg. 2015. Toward a functional definition of methane super-emitters: Application to natural gas production sites. <i>Environmental Science &amp; Technology</i> , 49(13):8167–8174. doi:10.1021/acs.est.5b00133. Available at: <a href="https://pubs.acs.org/doi/abs/10.1021/acs.est.5b00133">https://pubs.acs.org/doi/abs/10.1021/acs.est.5b00133</a> . (Accessed: February 28, 2018).	Natural gas production	Cradle to gate	Methane emissions
Zhang, Y., and A. Kendall. 2016. Life Cycle Performance of Cellulosic Ethanol and Corn Ethanol from a Retrofitted Dry Mill Corn Ethanol Plant. <i>BioEnergy Research</i> 10(1):183–198. doi:10.1007/s12155-016-9776-5.	Cellulosic ethanol, corn ethanol	Well to wheels	GHG emissions, energy requirements
Zhu et al. (2021). The coming wave of aluminum sheet scrap from vehicle recycling in the United States. Available at: <a href="https://www.sciencedirect.com/science/article/abs/pii/S0921344920305255">https://www.sciencedirect.com/science/article/abs/pii/S0921344920305255</a>	Aluminum automotive body sheets stock and scrap availability analysis in the U.S.	End of life	Indirect GHG emissions

## Notes:

<sup>a</sup> Cradle to gate = assessment of a partial product life cycle that includes the raw material extraction and manufacturing stages, and transportation between these stages; cradle to grave = life-cycle assessment that includes all five stages of a product's life cycle (i.e., raw material extraction, manufacturing, vehicle use, end-of-life management, and transportation between the various stages); gate to gate = assessment of a partial product life-cycle that includes only the manufacturing stage.

EV = electric vehicle; GHG = greenhouse gas; PHEV = plug-in hybrid electric vehicle; HSS = high-strength steel; CO<sub>2</sub> = carbon dioxide; CO = carbon monoxide; VOC = volatile organic compound; NO<sub>x</sub> = nitrogen oxides; SO<sub>2</sub> = sulfur dioxide; NH<sub>3</sub> = ammonia; PM = particulate matter; E85 ethanol fuel blend of 85% ethanol fuel and 15% gasoline or other hydrocarbon; CNG = compressed natural gas; LPG = liquefied petroleum gas; FFV = flexible-fuel vehicles; HEV = hybrid electric vehicle; FCEV = fuel cell electric vehicle; AHSS = advanced high strength steel; CNF = carbon nanofiber; CNF-GF = carbon nanofiber-glass fiber; PNC = polymer nanocomposite; LCA = life-cycle analysis; TPMS = tire pressure management system; SO<sub>x</sub> = oxides of sulfur; Pb = lead; NMVOCs = nonmethane volatile organic compounds; EREV = extended range electric vehicle; NiMH = nickel-metal hydride; HOF = high-octane fuel; HF = hydrogen fluoride



## **APPENDIX D**

# **Air Quality Modeling and Health Impacts Assessment**



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## Acronyms and Abbreviations

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$\mu\text{g}/\text{m}^3$	micrograms per cubic meter
AMET	Atmospheric Model Evaluation Tool
AQS	Air Quality System
BenMAP-CE	Environmental Benefits Mapping and Analysis Program—Community Edition
BEIS	Biogenic Emission Inventory System
CAFE	Corporate Average Fuel Economy
CB06	Carbon Bond Chemical Mechanism Version 6
CMAQ	Community Multiscale Air Quality
CO	carbon monoxide
CSN	Chemical Speciation Network
E85	blend of 15 percent gasoline and 85 percent ethanol, by volume
EGU	electric generating unit
EIS	Environmental Impact Statement
EMP	emissions modeling platform
EPA	U.S. Environmental Protection Agency
FB	fractional bias
FE	fractional error
FRM	federal reference method
REET	Greenhouse Gas, Regulated Emissions and Energy Used in Transportation
IMPROVE	Interagency Monitoring of Protected Visual Environments
LML	lowest measured level
MCIP	Meteorology-Chemistry Interface Processor
MDA8	daily maximum 8-hour average
MOVES	Motor Vehicle Emission Simulator
MPE	model performance evaluation
MY	model year
NAAQS	National Ambient Air Quality Standards
NCL	NCAR Command Language
$\text{ng}/\text{m}^3$	nanograms per cubic meter
$\text{NH}_3$	ammonia
NHTSA	National Highway Traffic Safety Administration
NMB	normalized mean bias
NME	normalized mean error
$\text{NO}_x$	nitrogen oxides
PM10	Coarse particulates (particulate matter 10 microns or less in diameter)
PM2.5	Fine particulates (particulate matter 2.5 microns or less in diameter)
ppb	parts per billion
ppt	parts per trillion
SAFE	Safer Affordable Fuel-Efficient

SCC	source classification code
SEARCH	South Eastern Aerosol Research and Characterization
SLAMS	State or Local Air Monitoring Stations
SMOKE	Sparse-Matrix Operator Kernel Emissions
SEIS	Supplemental Environmental Impact Statement
SO <sub>2</sub>	sulfur dioxide
VOC	volatile organic compound
Volpe	Volpe National Transportation Systems Center
WRF	Weather Research and Forecasting

## **APPENDIX D      AIR QUALITY MODELING AND HEALTH IMPACTS ASSESSMENT**

### **D.1      Introduction**

This appendix summarizes the application of air quality modeling tools to assess the impacts on air quality and the related health effects of the National Highway Traffic Safety Administration’s (NHTSA) final Corporate Average Fuel Economy (CAFE) standards for model year (MY) 2024–2026 passenger cars and light trucks. The air quality modeling and health effects analysis focused on ozone and fine particulate matter 2.5 microns or less in diameter (PM<sub>2.5</sub>).

As indicated in the Draft Supplemental Environmental Impact Statement (SEIS)<sup>1</sup> (NHTSA 2021), NHTSA indicated that photochemical air quality modeling would be performed based on the inputs and emissions forecasts used in the Draft SEIS<sup>2</sup>. Although the modeling described below does not reflect the health effects that would be associated with the Final SEIS alternatives and CAFE Model projections, it documents how the analysis is performed and how the spatial distributions of emissions sources and populations influence the results. The analysis illustrates how predicted health effects change with different assumptions and indicates the magnitudes of predicted changes in health effects to be expected from changes in emissions. If the photochemical air quality modeling described in this assessment were repeated with the Final SEIS data, the results likely would show very similar result outcomes.

#### **D.1.1      Objective**

The objective of this study is to use air quality modeling and health-related benefits analysis tools to examine the air quality-related consequences of the Proposed Action and alternatives and, specifically, to quantify the expected future air quality and health-related benefits associated with the alternative fuel economy standards NHTSA considered in its Draft SEIS. To support this objective, NHTSA estimated air quality changes and health-related benefits at the national scale based on a detailed analysis of air quality and health effects throughout the contiguous 48 states and Washington, D.C.

Different regions of the country could experience either a net increase or a net decrease in emissions because of the Proposed Action and alternatives, depending on the relative magnitude of the changes in emissions from increased fuel economy, increased vehicle use, increased electricity production from power plants and decreased fuel production and distribution under each alternative. The air quality analysis in this appendix addresses regional differences using grid-based air quality modeling and analysis techniques, which account for local and regional differences in emissions and many of the other factors (e.g., meteorology, atmospheric processes) that affect air quality and the resulting health effects at any given location.

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<sup>1</sup> To accommodate the substantial time required to complete the air quality modeling analysis, NHTSA initiated air quality modeling before the inputs and emissions forecasts for the Final SEIS were finalized. Therefore, NHTSA used the inputs and emissions forecasts for the Proposed Action and alternatives as stated in the Draft SEIS for the analysis in this report. Additionally, Alternative 2.5 was not included in this analysis because emissions had not yet been developed when the photochemical modeling effort began in September 2021.

This air quality modeling analysis is intended as a screening application of both the Community Multiscale Air Quality (CMAQ) model and the Environmental Benefits Mapping and Analysis Program—Community Edition (BenMAP-CE) (version 1.5.8.1) tool for the purposes of quantifying and comparing the air quality and health-related benefits of the Proposed Action and alternatives.

### **D.1.2 Methodology**

To examine and quantify the air quality and health-related benefits associated with the final CAFE standards for MY 2024–2026 Proposed Action and alternatives, NHTSA performed a national-scale photochemical air quality modeling and health benefit assessment with the following key steps:

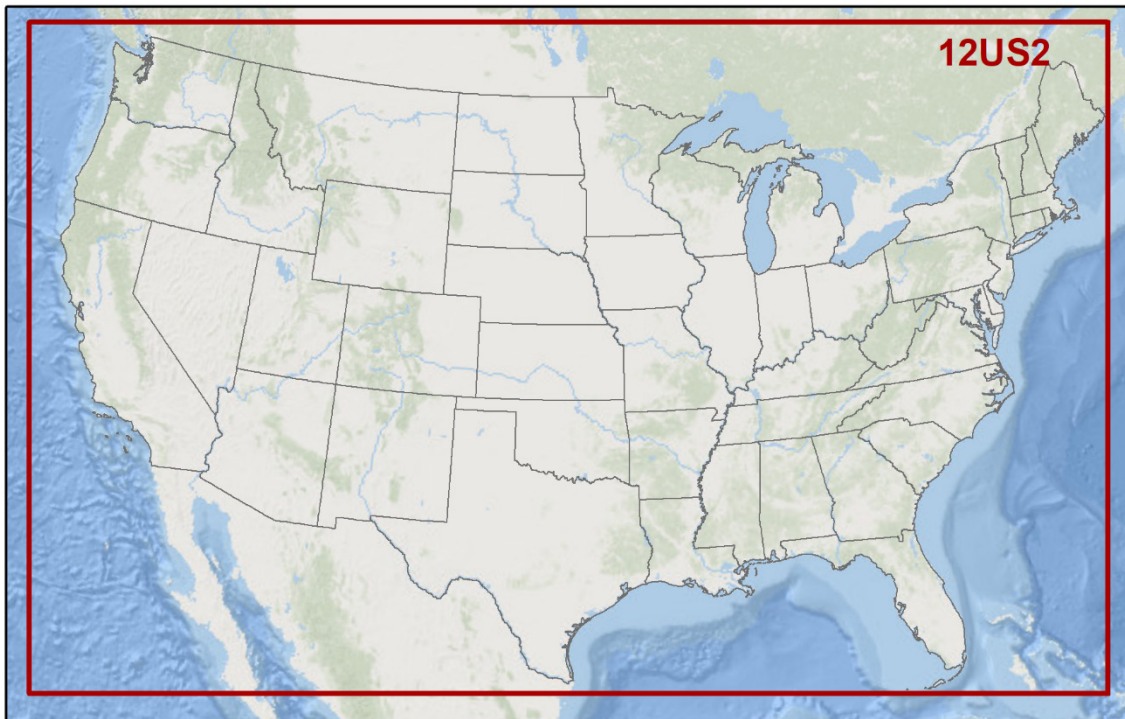
- Preparing emission inventories
- Modeling air quality
- Assessing air quality-related health impacts

The following widely used tools were used for the air quality and health effects assessment:

- Sparse-Matrix Operator Kernel Emissions (SMOKE) processing tool (version 4.8.1) to prepare model-ready emissions.
- CMAQ model (version 5.3.3) to quantify air quality changes for the different fuel economy alternatives.
- BenMAP-CE tool to assess the health-related impacts of the simulated changes in air quality.

The national-scale modeling analysis employed the standard 12-kilometer CMAQ continental modeling domain (12US2), shown in Figure D-1. The horizontal resolution of the grid for this modeling domain is 12 kilometers (7.45 miles) with 396 cells east-west and 246 north-south. Air quality and health-related impacts were calculated for each grid cell in the entire contiguous United States (48 states and Washington, D.C.). Although the modeling domain does not include all 50 states, nearly all of the affected emissions and population are included in the domain; therefore, the results are expected to represent those for a national-scale analysis. The modeling domain does include emissions from Mexico, Canada, and a small portion of the Caribbean, but these locations are not included in the health-related impact analysis.

Figure D-1. Community Multiscale Air Quality Modeling Domain



NHTSA applied the CMAQ model for an annual simulation period using meteorological inputs provided by the U.S. Environmental Protection Agency (EPA) for a base year of 2016.

NHTSA performed the modeling analysis for light-duty cars and trucks for the year 2035, although the emissions inputs for all other sources were for 2032 because this was the best available projection data. NHTSA chose 2035 for analysis of the Proposed Action and alternatives because a large proportion of vehicles in operation are expected to meet the level of the standards set forth by 2035. EPA provided up-to-date projected, national-scale emissions data for 2032. The emissions were processed for the 12-kilometer resolution modeling domain using SMOKE. The resulting model-ready inventories contain emissions for all criteria pollutants (as required for photochemical modeling) for multiple source categories (sectors), including on-road mobile sources, non-road mobile sources (e.g., construction equipment, locomotives, ships, aircraft), electric generating unit (EGU) point sources, non-EGU point sources, area sources, and biogenic sources.

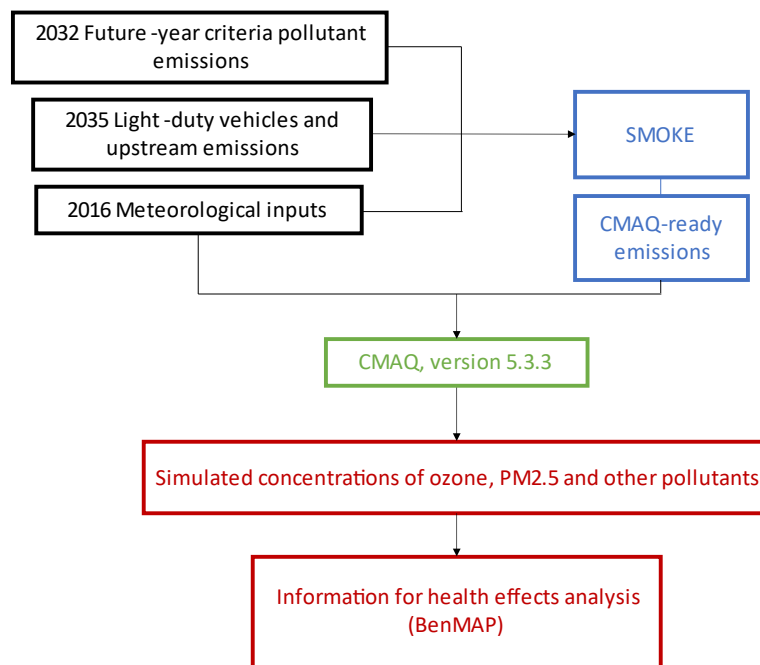
NHTSA developed a baseline emissions inventory for the No Action Alternative (Alternative 0). Following preparation of baseline emissions inventories, the baseline emissions for the light-duty vehicle portion of the on-road mobile emissions and the relevant upstream categories were replaced with data reflecting the alternatives analyzed in the Draft SEIS. NHTSA calculated national estimates of on-road emissions for these vehicle classes for 2035. Downstream (tailpipe) emissions from light-duty vehicles were estimated using the most recent version of EPA's Motor Vehicle Emissions Simulator (MOVES3) model based on a variety of inputs, including vehicle type, age, fuel type and vehicle technology. To estimate upstream emissions changes resulting from decreased downstream fuel consumption, the analysis uses emissions factors from the Greenhouse Gases, Regulated Emissions, and Energy Use in Transportation (GREET) model (version 2021 developed by the U.S. Department of Energy, Argonne National Laboratory). Upstream emission factors for gasoline, diesel, E85 (a blend of 15 percent gasoline

and 85 percent ethanol, by volume), and electricity were taken from the GREET model in 5-year increments beginning in 1985 and ending in 2040.

NHTSA then applied CMAQ for each alternative, using the emissions specific to each alternative. The simulated difference in air quality between the No Action Alternative and each action alternative represents the change in air quality associated with that alternative. Following the application of CMAQ, NHTSA processed the CMAQ outputs for input to the BenMAP-CE health effects analysis tool and used BenMAP-CE to estimate the health impacts with the changes in air quality simulated by CMAQ for each of the action alternatives. The BenMAP-CE tool includes health impact functions, which relate a change in the concentration of a pollutant with a change in the incidence of a health endpoint. For this study, the health effects analysis considered the effects of ozone and PM<sub>2.5</sub>. The PM<sub>2.5</sub> analysis includes sulfate and nitrate particulates (secondary PM<sub>2.5</sub>) formed from emissions of sulfur dioxide (SO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>), respectively. BenMAP-CE does not estimate health impacts associated with changes in directly emitted SO<sub>2</sub>, carbon monoxide (CO), and other emissions. Health effects were calculated at the 12-kilometer scale (grid cell size) and aggregated nationally to determine overall impact.

Figure D-2 shows the components of the NHTSA air quality modeling and health-related benefits analysis. Note that both the emissions and meteorological inputs are used by SMOKE.

**Figure D-2. Diagram of Air Quality Modeling and Health-Related Benefits Analysis**



SMOKE = Sparse-Matrix Operator Kernel Emissions; CMAQ = Community Multiscale Air Quality; PM<sub>2.5</sub> = particulate matter 2.5 microns or less in diameter; BenMAP = Environmental Benefits Mapping and Analysis Program

### **D.1.3 Model Applications**

NHTSA designed this analysis to examine the air quality impacts and related health benefits associated with selected alternatives to support the development of the Final SEIS for the final rule to set CAFE standards for MY 2024–2026 light-duty vehicles. This analysis examines the impacts for the No Action

Alternative and three action alternatives that were included in the Draft SEIS (NHTSA 2021). As noted in the introduction, Alternative 2.5 (NHTSA's Preferred Alternative in the Final SEIS) was not included in this analysis because emissions had not yet been developed when the photochemical modeling effort began in September 2021. However, results for Alternative 2.5 are expected to fall somewhere between Alternative 2 and 3.

For this analysis, the No Action Alternative is the baseline—this alternative assumes that the standards established in the Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule for Model Years 2021–2026 Passenger Cars and Light Trucks (SAFE Vehicles Final Rule) remain unchanged and continue to apply for MY 2027 and beyond.

The specific actions for each alternative are as follows:

- **Alternative 1.** For both passenger cars and light trucks, a 10.5 percent increase in fuel economy for MY 2024 over MY 2023 and a 3.26 percent annual average increase in fuel economy for both passenger cars and light trucks for MYs 2025–2026.
- **Alternative 2.** For both passenger cars and light trucks, an 8.0 percent average annual increase for both passenger cars and light trucks fuel economy for MYs 2024–2026.
- **Alternative 3.** For both passenger cars and light trucks, a 10.0 percent average annual increase in fuel economy for both passenger cars and light trucks for MYs 2024–2026.

For the purposes of its analysis, NHTSA assumes that the MY 2026 CAFE standards for each alternative would continue indefinitely. For each analysis, NHTSA calculated the health effects associated with each alternative in relation to the baseline of the No Action Alternative for that analysis.

## **D.2 Emissions Inventory Preparation**

This section describes input data and procedures used to develop emission inputs for air quality modeling analysis to support the Final SEIS. The air quality modeling was conducted using CMAQ (version 5.3.3).

EPA released an updated 2016 emissions modeling platform (EMP) in September 2021, referred to as 2016v2 EMP, that can be used by CMAQ. The 2016v2 EMP includes a full suite of base year (2016) and future year inventories, ancillary emissions data, and scripts and software for preparing emissions for air quality modeling. The 2016v2 platform is the basis for the national emissions for the Draft SEIS. The 2016v2 platform incorporates emissions based on an updated mobile emissions model named MOVES3, the 2017 National Emissions Inventory non-point inventory (both anthropogenic and biogenic), the Western Regional Air Partnership oil and gas inventory, and updated inventories for Canada and Mexico.

The Volpe National Transportation Systems Center (Volpe), operated by the U.S. Department of Transportation, supports NHTSA's CAFE program. For the Draft SEIS, Volpe developed national emissions estimates for future years for four alternatives—the No Action Alternative and three action alternatives. Each alternative includes tailpipe emissions for light-duty vehicles and upstream emissions estimates that account for activities associated with the extraction of crude oil; crude transportation; crude refining; and fuel transportation, storage, and distribution. In order to conduct the air quality modeling, NHTSA developed a national, model-ready emissions inventory for each of the four alternatives. This was accomplished by substituting the light-duty vehicle tailpipe emissions and associated upstream emissions in the 2032 future year emissions inventory provided with the 2016v2 EMP with the emissions developed by Volpe for each alternative. NHTSA modeled the impacts for an annual simulation period.

This section details the emissions inventory inputs, processing steps, and quality assurance measures that were conducted.

## **D.2.1 Emissions Data and Methods**

The CMAQ model requires input of hourly criteria pollutant emissions of both anthropogenic and biogenic sources that have been spatially allocated to the modeling grid cells and chemically speciated for the CB06 chemical mechanism used in the model. NHTSA processed and prepared the modeling emissions for CMAQ using EPA's SMOKE software (version 4.8.1).<sup>3</sup> NHTSA derived the emissions inventories prepared for the modeling analysis from 2016 and 2032 emissions data in the 2016v2 platform.

The SMOKE emission input files include the following sectors:

- Particulate emissions from fugitive dust sources
- Agricultural ammonia emissions
- Agricultural burning emissions
- Emissions from Category 1 and 2 commercial marine vessel sources in ports and navigable waterways as well as offshore emissions in the Atlantic and Pacific Oceans and the Gulf of Mexico
- Railway emissions
- Ocean-going Class 3 marine vessel port and underway emissions within or close to the United States mainland
- Area-source emissions not included in other sectors
- Off-highway mobile source emissions
- On-highway mobile source emissions
- Area-source oil and gas emissions
- Particulate emissions from fugitive dust sources in Canada
- Area-source emissions from Canada and Mexico
- Mobile-source emissions from Canada and Mexico
- Point-source emissions from Canada, Mexico, and offshore areas
- Point-source emissions from EGUs
- Point-source emissions from industrial activities
- Point-source emissions from year-specific controlled burning and wildfires
- Point-source oil and gas emissions
- Area-source residential wood combustion emissions
- Biogenic emissions generated using the Biogenic Emission Inventory System (BEIS) model (version 3.7)

These files included emissions data and related information for the contiguous United States and Washington, D.C., along with the emissions for the portions of Canada, Mexico, and offshore areas included in the modeling domain. The modeling inventories include the following pollutants: volatile organic compounds (VOC), NO<sub>x</sub>, CO, SO<sub>2</sub>, PM<sub>2.5</sub>, coarse particulate matter 10 microns or less in diameter (PM<sub>10</sub>), and ammonia (NH<sub>3</sub>).

Volpe calculated the expected changes in on-road mobile emissions for light-duty vehicles and upstream emissions associated with these vehicle classes (Volpe 2021). For each pollutant, total emissions for all

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<sup>3</sup> <https://www.cmascenter.org/smoke/>



the 48 contiguous states and Washington, D.C. were developed for light-duty vehicles and for the upstream emissions associated with fuel production for these vehicle classes for the No Action Alternative and action alternatives. As part of the emissions processing, NHTSA incorporated this information into the modeling input files for each simulation, as detailed in Section D.2.2, *Emissions Processing Procedures*.

## D.2.2 Emissions Processing Procedures

The 2016v2 platform includes CMAQ model-ready emissions for the 12-kilometer continental United States domain (12US2). NHTSA leveraged the 2016v2 EMP gridded, pre-merged emission files from EPA. The 2016v2 base year CMAQ model-ready emissions produced by EPA were used “as is” for air quality modeling. To analyze future year impacts, NHTSA produced four model-ready emissions datasets. NHTSA supplemented emissions data provided by Volpe with the 2032 future year emissions from the 2016v2 platform for those source sectors that are not affected by the alternatives. As noted previously, NHTSA processed and developed the modeling emissions for CMAQ using EPA’s SMOKE software (version 4.8.1). NHTSA prepared the CMAQ model-ready emissions with the following steps:

1. Substitute the on-road mobile and upstream emissions to reflect the No Action Alternative and action alternatives.
2. Process the emissions for modified source sectors using the SMOKE programs and inputs.
3. Review and perform quality assurance checks.

### D.2.2.1 Preparation of On-Road Mobile Emission Inputs

The SMOKE on-road mobile input files contain monthly, county-level emissions for criteria pollutants by MOVES-based vehicle type and roadway type. To incorporate the Volpe emission estimates for each alternative into the emissions input files, NHTSA modified the 2032 SMOKE on-road input files from the EPA 2016v2 platform such that the Volpe emissions are substituted for the light-duty vehicle categories to create modified SMOKE input files consistent with the emissions analyzed and reported in the Draft SEIS. Table D-1 lists the vehicle types for on-road mobile sources. Table D-2 lists the various roadway types.

**Table D-1. Vehicle Types in EPA’s SMOKE Input Files for On-Road Mobile Sources**

LD/MDHD	Vehicle Type	Fuel Type
LD	Motorcycles	Gasoline
LD	Passenger cars	Gasoline
LD	Passenger trucks	Gasoline
LD	Light commercial trucks	Gasoline
LD	Passenger cars	Diesel
LD	Passenger trucks	Diesel
LD	Light commercial trucks	Diesel
LD	Passenger cars	Ethanol (E85)
LD	Passenger trucks	Ethanol (E85)
LD	Light commercial trucks	Ethanol (E85)
MDHD	Transit buses	Gasoline
MDHD	School buses	Gasoline

LD/MDHD	Vehicle Type	Fuel Type
MDHD	Refuse trucks	Gasoline
MDHD	Single unit short-haul trucks	Gasoline
MDHD	Motor homes	Gasoline
MDHD	Intercity buses	Diesel
MDHD	Transit buses	Diesel
MDHD	School buses	Diesel
MDHD	Refuse trucks	Diesel
MDHD	Single unit short-haul truck	Diesel
MDHD	Single unit long-haul trucks	Diesel
MDHD	Motor homes	Diesel
MDHD	Combination short-haul truck	Diesel
MDHD	Combination long-haul trucks	Diesel
MDHD	Transit buses	Compressed natural gas (CNG)

LD = light duty; MDHD = medium- and heavy-duty

**Table D-2. Roadway Types in EPA’s SMOKE Input Files for On-Road Mobile Sources**

Area Type	Description
Rural	Rural restricted access
Rural	Rural unrestricted access
Rural	Urban restricted access
Rural	Urban unrestricted access
Urban	Rural restricted access
Urban	Rural unrestricted access
Urban	Urban restricted access
Urban	Urban unrestricted access

The Proposed Action applies only to the light-duty vehicles shown in Table D-1. To incorporate the Volpe future emission estimates for each alternative into the emission input files, NHTSA modified the 2032 SMOKE on-road input files from the EPA 2016v2 platform such that the Volpe emissions are substituted for the light-duty vehicle categories to create modified SMOKE input files consistent with the emissions analyzed and reported in the Draft SEIS. The steps involved in this process are as follows:

- **Step 1. Calculate the national-level total 2032 emissions from the EPA-provided on-road sector SMOKE input files.** Calculate the annual national-level 2032 tailpipe emissions for light-duty vehicles, including both cars and light trucks as shown in Table D-1, based on EPA’s SMOKE input files for NO<sub>x</sub>, VOC, CO, SO<sub>2</sub>, and PM<sub>2.5</sub>.
- **Step 2. Calculate adjustment factors for light-duty vehicles for the alternatives.** Calculate the ratios of national-level emissions for each alternative relative to EPA 2032 on-road mobile emissions from Step 1 for cars and light trucks.
- **Step 3. Apply the adjustment factors from Step 2 to the EPA 2032 on-road mobile SMOKE input file for each alternative.** Apply the national-level adjustment factors from Step 2 to the EPA 2032 on-road mobile SMOKE input files to prepare updated SMOKE input files for each alternative.

NHTSA did not include brake wear and tire wear emissions in this analysis because these emissions would have minimal effect on the results as they are not chemically reactive.

### **D.2.2.2 Preparation of Upstream Emission Inputs**

As noted previously, the Proposed Action is expected to affect the upstream emissions associated with the extraction of oil (feedstock recovery); feedstock transportation; fuel refining; and fuel transportation, storage, and distribution. These upstream emissions sectors have a variety of equipment, processes, and activities involved in the production of fuel, including oil-field extraction equipment (e.g., drills and pumps); oil refining (e.g., boilers and heaters); and transportation, storage, and distribution of the fuel. For this analysis, NHTSA identified the list of EPA source classification codes (SCCs) associated with these activities and equipment types, and extracted the upstream emissions from the EPA 2016v2 EMP. The SCC list is referred to as “upstream SCC” and includes sources from four sectors of the 2016v2 platform: (1) non-point, (2) non-EGU point, (3) point oil and gas, and (4) non-point oil and gas.

For each alternative, Volpe developed estimates of upstream emissions, by pollutant, associated with the alternatives that apply only to upstream emissions for light-duty vehicles. However, the 2016v2 EMP emissions for upstream SCCs are total emissions regardless of end use. To incorporate the upstream emissions estimates for each alternative, it is assumed that 50 percent of the total 2016v2 EMP emissions for the upstream SCCs are to produce fuel for light-duty vehicles and are replaced with the upstream emissions for each alternative developed by Volpe. Based on the upstream SCC list, NHTSA substituted estimates of the emissions for each alternative for the corresponding EPA emissions to prepare modified SMOKE inputs for each source type category.

Regarding upstream emissions for each alternative, NHTSA considered only emissions occurring domestically and did not consider emissions from the transport of crude oil or refined gasoline to the United States. The upstream emissions estimates are based on the following assumptions:

- 50 percent of the fuel use reduction in the alternatives would represent decline in imports of refined gasoline, and therefore would reduce domestic emissions only during fuel transportation, storage, and distribution and not from feedstock recovery, feedstock transportation, and fuel refining.
- 90 percent of the reduction in domestic fuel refining would reduce imports of crude petroleum, and therefore would not reduce domestic emissions from feedstock recovery and feedstock transportation.
- 10 percent of the reduction in domestic fuel refining would reduce domestic production of crude petroleum, which would reduce domestic emissions from feedstock recovery and feedstock transportation.

NHTSA estimated these percentages using several scenarios from the Energy Information Administration Annual Energy Outlook (EIA 2018).

### **D.2.2.3 Emission Processing and Quality Assurance Procedures**

Once the modified mobile source and upstream-related SMOKE input files reflecting the alternatives were developed, the files were processed by SMOKE and merged with the other source category input to

prepare model-ready inputs for CMAQ. The general procedures to prepare the modeling inventories, using various programs included with SMOKE, were as follows:

- Modify on-road mobile source SMOKE input files using emissions data and related information.
- Modify upstream-related SMOKE input files using emissions data and related information.
- Chemically speciate input criteria pollutants into the CB06 chemical mechanism species, as required by CMAQ.
- Temporally distribute the input annual and monthly emissions into hourly emissions.
- Spatially distribute input emissions to the modeling grid.
- Merge emissions from all source categories into the CMAQ model-ready files.
- Review and ensure the quality of the inventory processing procedures and results.

The emission processing quality assurance procedures included the development and examination of tabular emission summaries and graphical display products. Tabular summaries were prepared to examine emission totals for various steps of emissions processing. Summaries for input emissions were based on the input inventory data: monthly emissions for the on-road and non-road mobile sectors and annual emissions for other sectors for criteria pollutants. Summaries for output emissions were based on the SMOKE output reports—daily emissions for each species included in the chemical mechanism for each sector. The output daily emissions were summed over all days in the year and the species were summed for the criteria pollutants. The emissions were summarized for each alternative by state and sector, and comparisons were made between the input emissions and output emissions for each sector to ensure consistency.

In addition to the tabular summaries, various graphical displays were prepared for one day of each month (the 15th of each month was randomly selected) to examine the spatial distribution and temporal variation for each sector and the final merged emissions using the National Center for Atmospheric Research Command Language (NCL) graphical plotting package.<sup>4</sup>

### **D.2.3 Emission Summaries**

As described in Section D.1.3, *Model Applications*, for this air quality analysis NHTSA modeled four alternatives: the No Action Alternative (Alternative 0)<sup>5</sup>, and Alternatives 1 through 3. Thus, four sets of modeling inventories were prepared. Using the original and modified inputs for future years, NHTSA used the SMOKE emissions processing system to prepare the CMAQ model-ready hourly emission inventory inputs for each simulation for the 12-kilometer resolution national grid. Although the processed emissions inventories were prepared for the full list of CB06 emission species, most of the presentation and discussion that follows focuses on VOC, NO<sub>x</sub>, SO<sub>2</sub>, and primary PM<sub>2.5</sub> emissions.

Table D-3 lists national (48-state) annual anthropogenic emissions totals for each pollutant by inventory sector for each alternative simulated. Table D-4 lists annual emissions totals for all sectors combined for each alternative. The emissions totals reflect the expected emissions changes from on-road motor vehicles and upstream sources based on the stringency of the alternatives. The non-road sector includes airports, rail, commercial marine vessels and non-road engines.

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<sup>4</sup> NCL is available from NCAR at <https://www.ncl.ucar.edu/>

<sup>5</sup> Alternative 0 is referred to as the No Action Alternative in the text. In tables and figures, Alternatives 0 through 3 are abbreviated as Alt. 0 through Alt. 3.

To illustrate and check the reasonableness of the spatial distribution of emissions throughout the modeling domain, NHTSA prepared and examined daily emission density plots for selected days. NHTSA used emissions associated with the No Action Alternative to check the reasonableness of the spatial distribution of emissions. Figures D-3 through D-6 show daily emissions for July 15, 2032 for VOC, NO<sub>x</sub>, SO<sub>2</sub>, and PM<sub>2.5</sub> for a 12-kilometer resolution. The date appearing on these and all subsequent figures refer to the meteorological base year (2016) for the selected day or averaging period. The maximum value in the domain is also provided along with its grid cell (x,y) location. NHTSA selected a summer day for display because it is included in both the ozone season and the annual simulation period. The plots show the spatial distribution of 2032 emissions under the No Action Alternative, with larger emissions in the more populated areas of the eastern United States and California, and smaller emissions in the less-populated areas of the interior western United States and areas of Canada and Mexico. The VOC emissions plots also include biogenic emissions, with larger emissions associated with the more forested regions of the southeastern United States and California. The PM<sub>2.5</sub> emissions are associated with various anthropogenic mobile and industrial sources, and agricultural burning and wildfires.

**Table D-3. National Emissions by Sector for the NHTSA Future-Year Modeling Analyses, by Alternative (thousands tons/year)**

<b>Pollutant</b>	<b>Sector</b>	<b>Alt. 0 (No Action)</b>	<b>Alt. 1</b>	<b>Alt. 2</b>	<b>Alt. 3</b>
VOC	EGU	41	41	41	41
	Non-EGU point	866	863	862	860
	Non-point (area)	3,724	3,714	3,706	3,699
	Non-road	1,014	1,014	1,014	1,014
	On-road	532	533	533	534
NOX	EGU	605	605	605	605
	Non-EGU point	1,466	1,464	1,465	1,466
	Non-point (area)	1,293	1,292	1,292	1,293
	Non-road	4,019	4,019	4,019	4,019
	On-road	1,024	1,025	1,025	1,026
CO	EGU	452	452	452	452
	Non-EGU point	1,747	1,746	1,747	1,747
	Non-point (area)	4,852	4,852	4,852	4,853
	Non-road	12,233	12,233	12,233	12,233
	On-road	5,551	5,556	5,541	5,535
SO2	EGU	713	713	713	713
	Non-EGU point	667	667	670	673
	Non-point (area)	173	173	173	173
	Non-road	442	442	442	442
	On-road	9	9	8	8
PM10	EGU	117	117	117	117
	Non-EGU point	412	411	412	412
	Non-point (area)	16,372	16,372	16,372	16,372
	Non-road	205	205	205	205
	On-road	87	87	87	87

**Appendix D Air Quality Modeling and Health Impacts Assessment**

Pollutant	Sector	Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 3
PM2.5	EGU	100	100	100	100
	Non-EGU point	271	270	271	271
	Non-point (area)	2,942	2,942	2,942	2,942
	Non-road	189	189	189	189
	On-road	25	25	25	25
NH3	EGU	37	37	37	37
	Non-EGU point	63	63	63	63
	Non-point (area)	4,044	4,044	4,044	4,044
	Non-road	3	3	3	3
	On-road	102	102	102	102

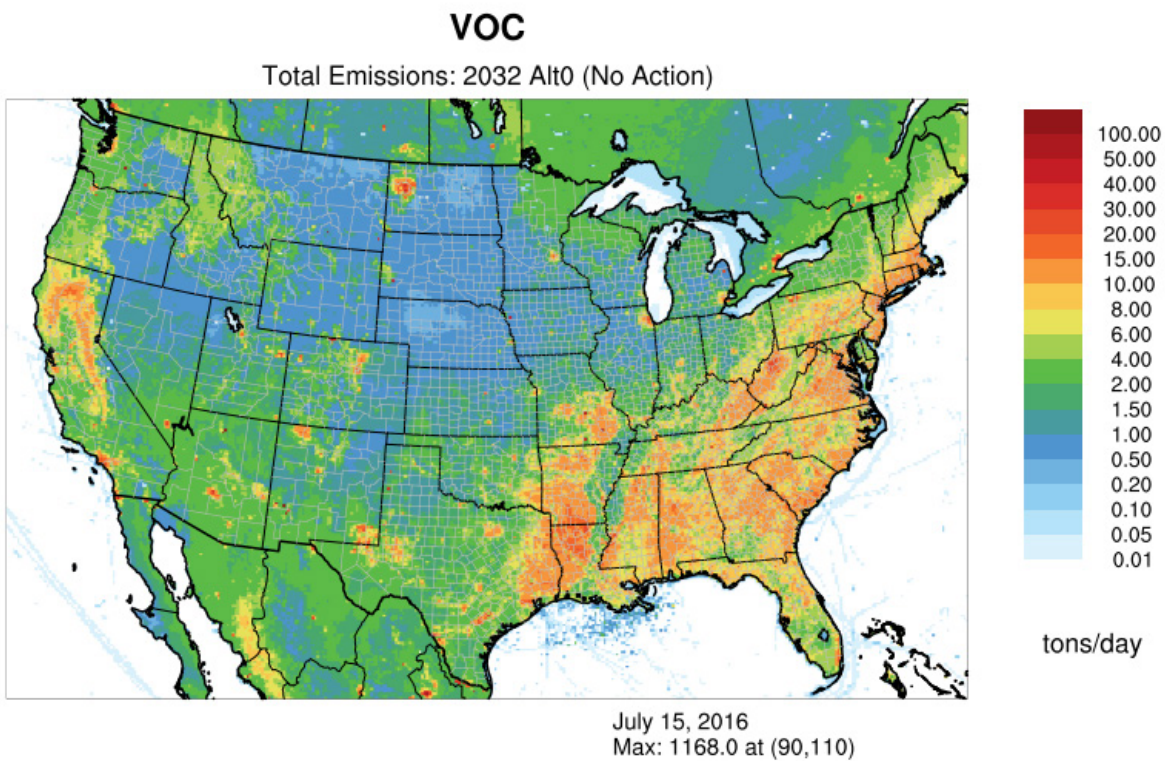
CO = carbon monoxide; EGU = electric generating unit; NH<sub>3</sub> = ammonia; NO<sub>x</sub> = oxides of nitrogen; PM10 = particulate matter 10 microns or less in diameter; PM2.5 = particulate matter 2.5 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; VOC = volatile organic compounds.

**Table D-4. National Emissions for All Sectors Combined for the NHTSA Future-Year Modeling Analyses, by Alternative (thousands tons/year)**

Pollutant	Alt. 0 (No Action)	Alt. 1	Alt. 2	Alt. 3
VOC	6,177	6,165	6,155	6,148
NOX	8,406	8,404	8,406	8,409
CO	24,835	24,838	24,824	24,820
SO2	2,004	2,003	2,006	2,009
PM10	17,192	17,192	17,192	17,192
PM2.5	3,527	3,526	3,526	3,527
NH3	4,248	4,248	4,248	4,248

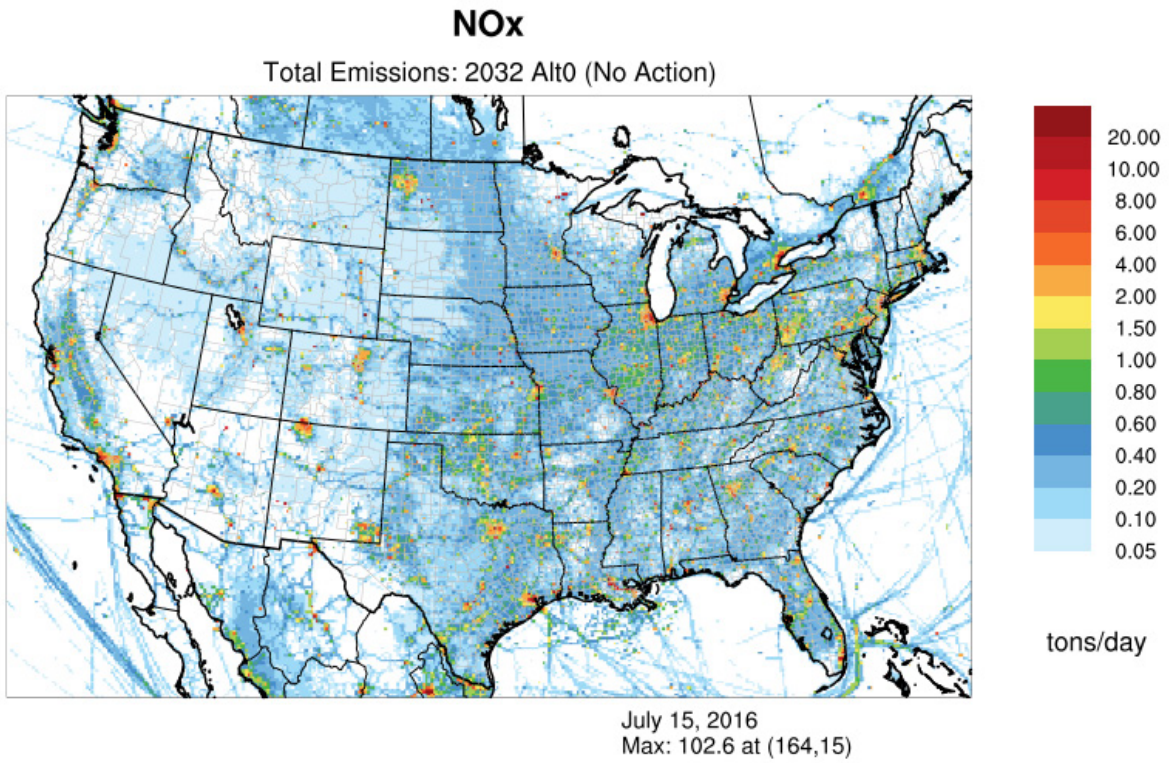
CO = carbon monoxide; NH<sub>3</sub> = ammonia; NO<sub>x</sub> = oxides of nitrogen; PM10 = particulate matter 10 microns or less in diameter; PM2.5 = particulate matter 2.5 microns or less in diameter; SO<sub>2</sub> = sulfur dioxide; VOC = volatile organic compounds

Figure D-3. Daily Volatile Organic Compound Emissions for July 15: No Action Alternative



VOC = volatile organic compounds

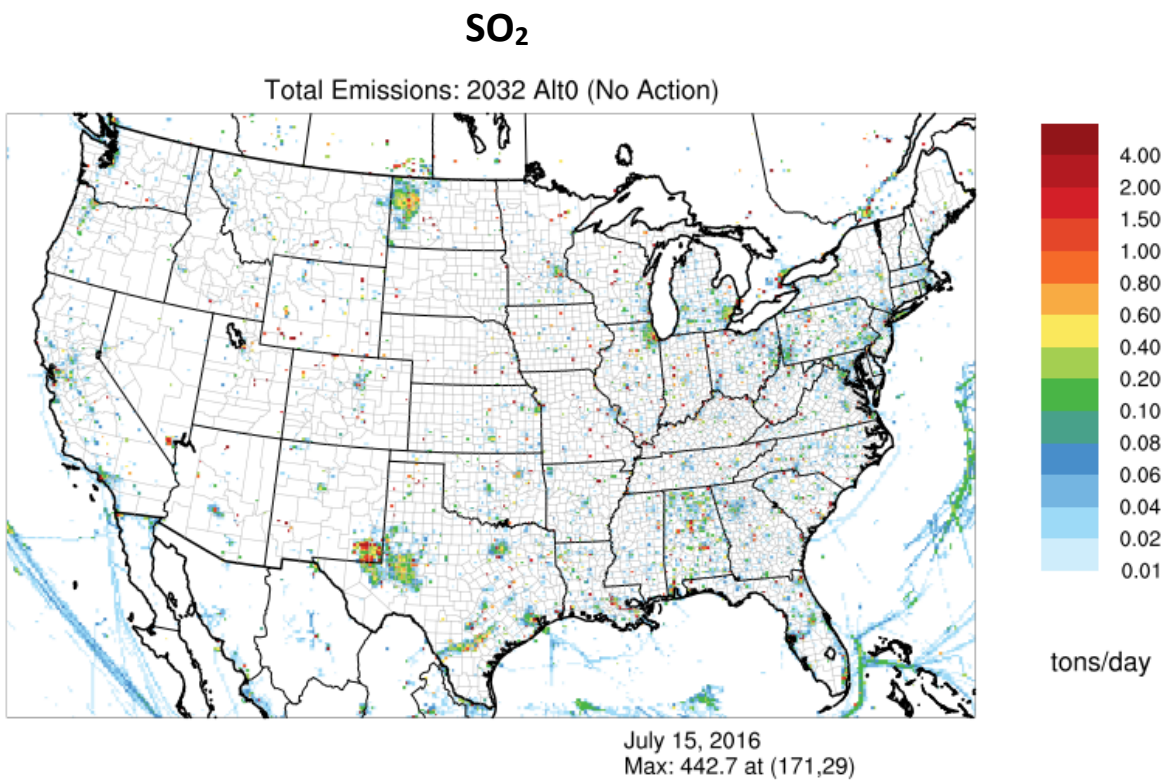
Figure D-4. Daily Oxides of Nitrogen Emissions for July 15: No Action Alternative



NO<sub>x</sub> = nitrogen oxides

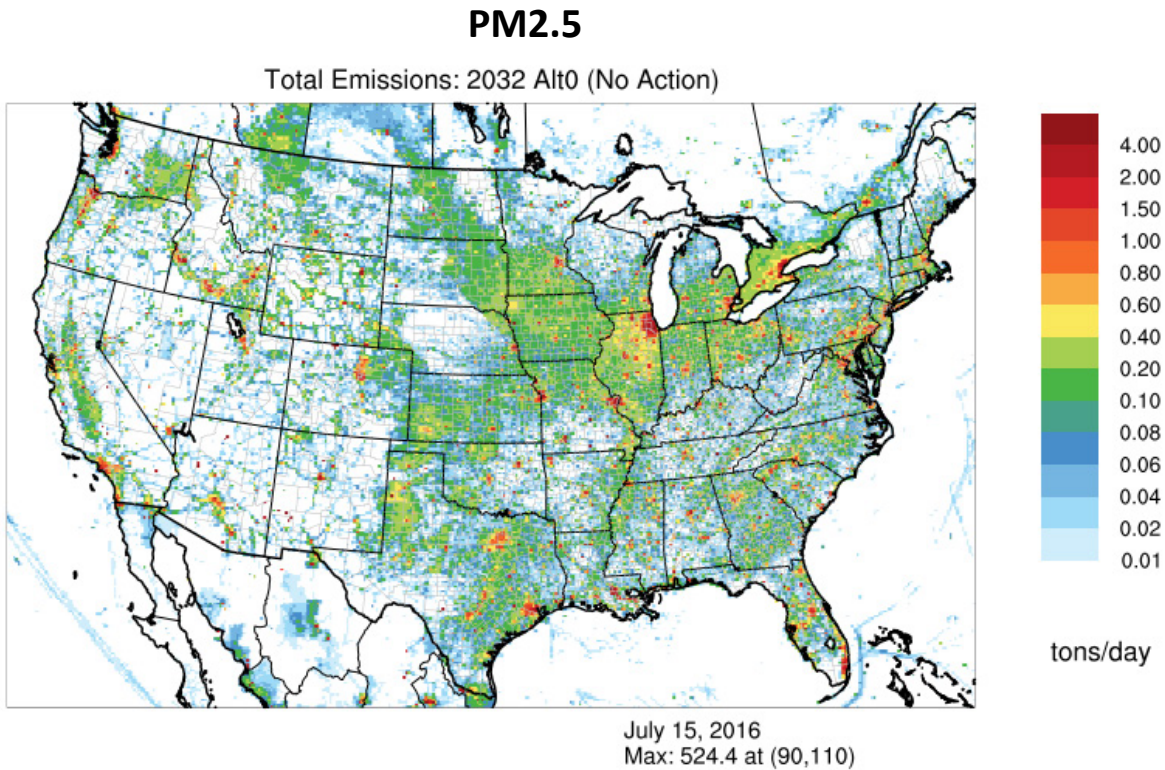


Figure D-5. Daily Sulfur Dioxide Emissions for July 15: No Action Alternative



SO<sub>2</sub> = sulfur dioxide

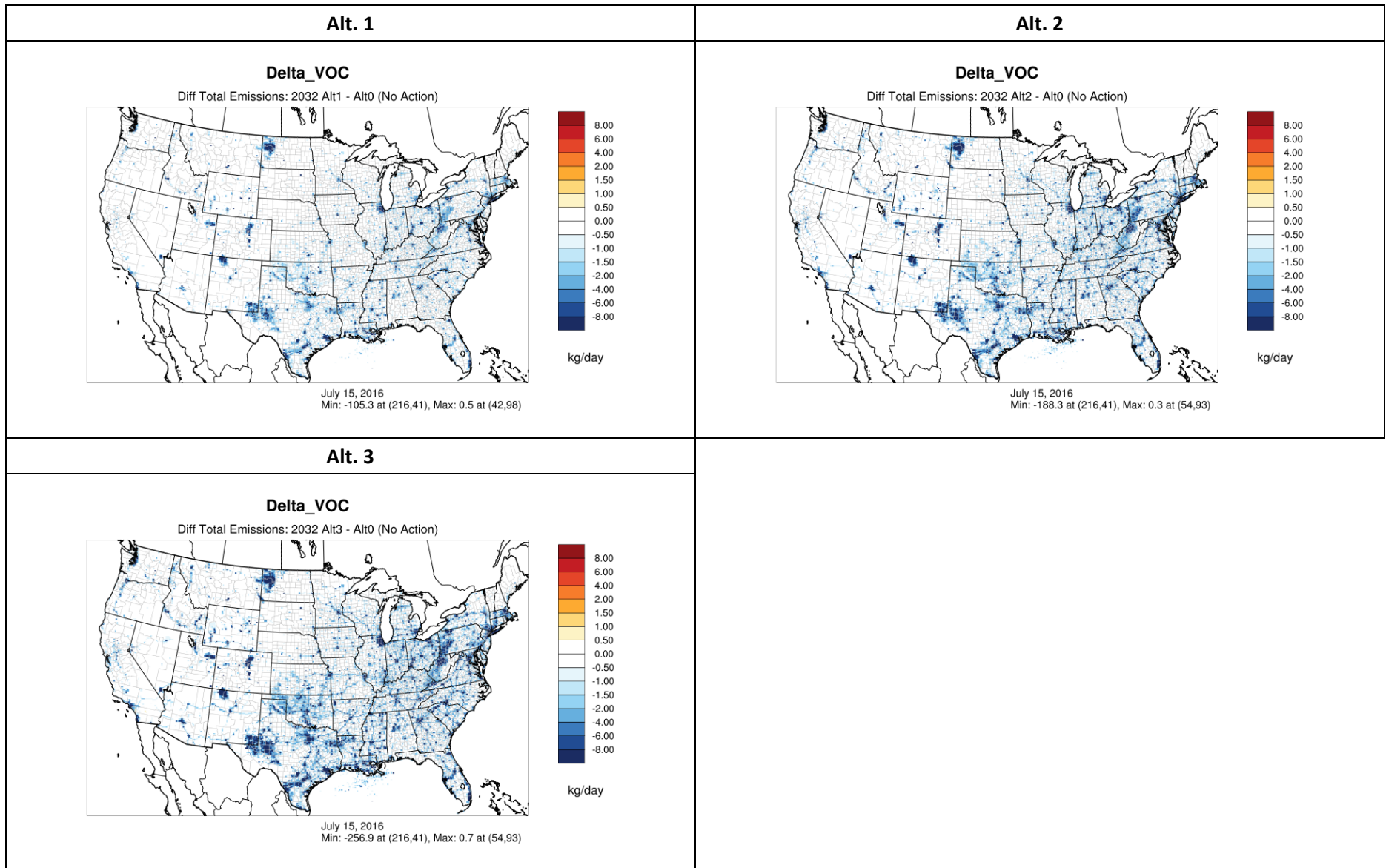
Figure D-6. Daily PM2.5 Emissions for July 15: No Action Alternative



PM2.5 = particulate matter 2.5 microns or less in diameter

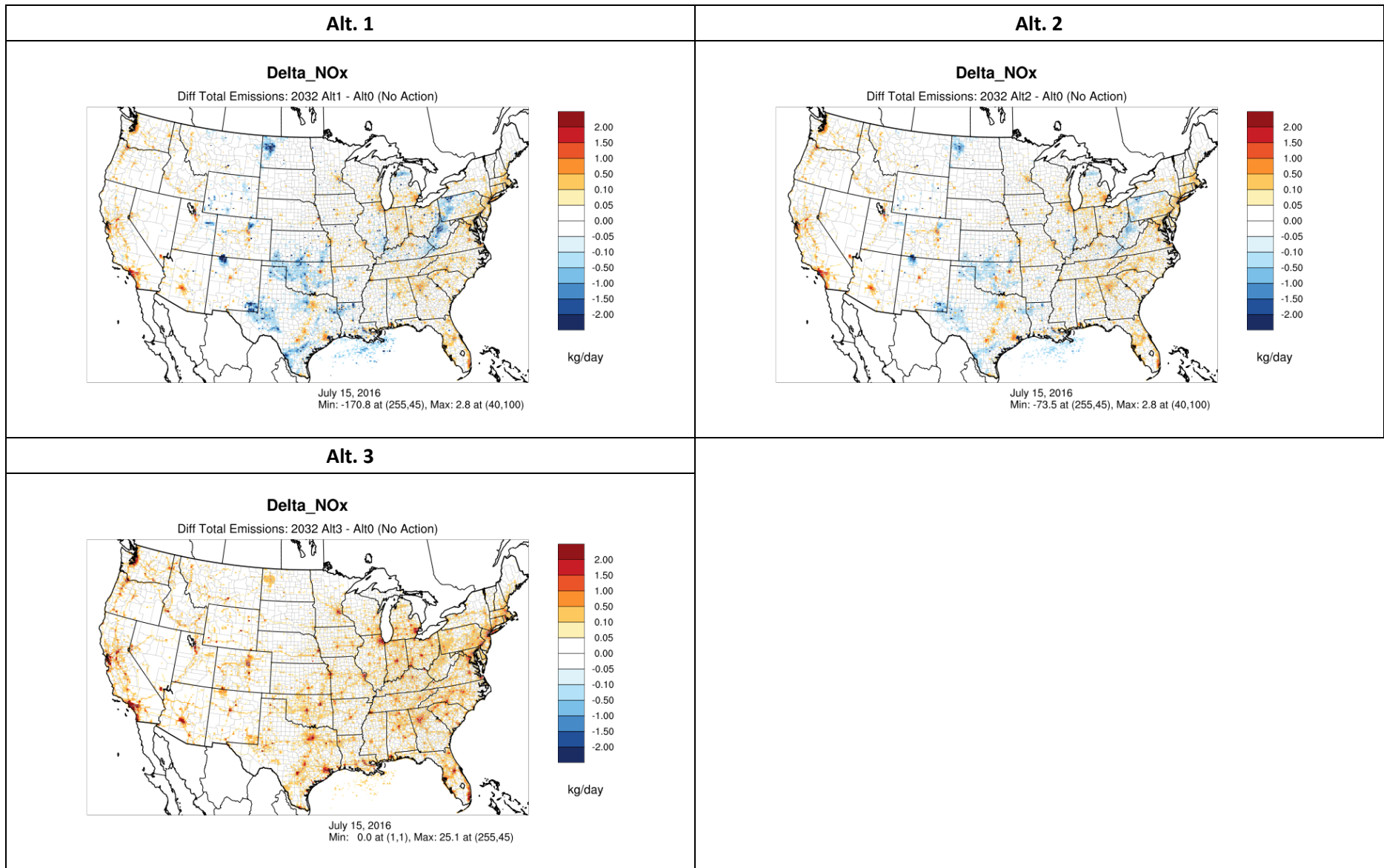
Figures D-7 through D-10 illustrate the spatial distribution of differences (or changes) in emissions for the action alternatives compared to the No Action Alternative for VOC, NO<sub>x</sub>, SO<sub>2</sub>, and PM2.5, respectively. The difference plots illustrate where the changes in emissions are expected to occur throughout the 12-kilometer resolution modeling domain. The white area indicates no or negligible change in emissions. The VOC difference plots indicate overall decline in VOC emissions due to the relative larger reduction associated with the upstream sources despite the smaller magnitude of increases from on-road mobile emission (cars and light trucks). These upstream VOC emissions decreases are concentrated over major oil and gas basins. The changes in NO<sub>x</sub> emissions reflect the combination of reductions from upstream sources and increases from on-road mobile sources (light-duty vehicles). This increase is due to assumptions regarding the “rebound” effect, whereby improved fuel economy results in vehicles being driven more miles, resulting in higher on-road NO<sub>x</sub> emissions as criteria pollutant emissions are regulated on a gram per mile basis. On the other hand, the changes in SO<sub>2</sub> emissions reflect the combination of increases from upstream sources and reduction from light-duty vehicles, which is evident from the plot. The particulate matter changes between the alternatives are relatively small.

Figure D-7. Differences in Daily Volatile Organic Compound Emissions for July 15 for Alternative 1, 2, and 3 compared to the No Action Alternative



VOC = volatile organic compounds

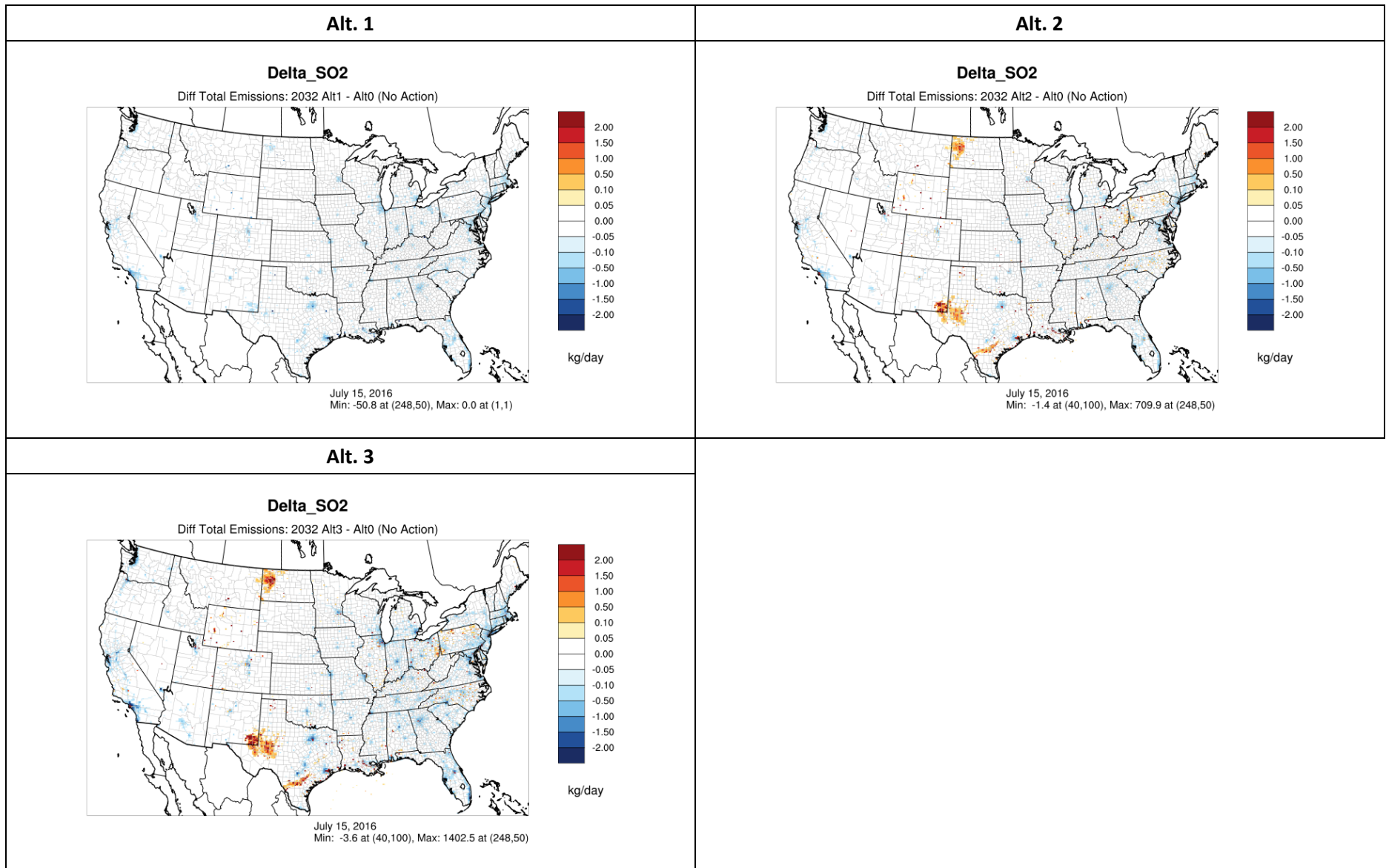
Figure D-8. Differences in Daily Oxide of Nitrogen Emissions for July 15 for Alternative 1, 2, and 3 compared to the No Action Alternative



NO<sub>x</sub> = nitrogen oxides

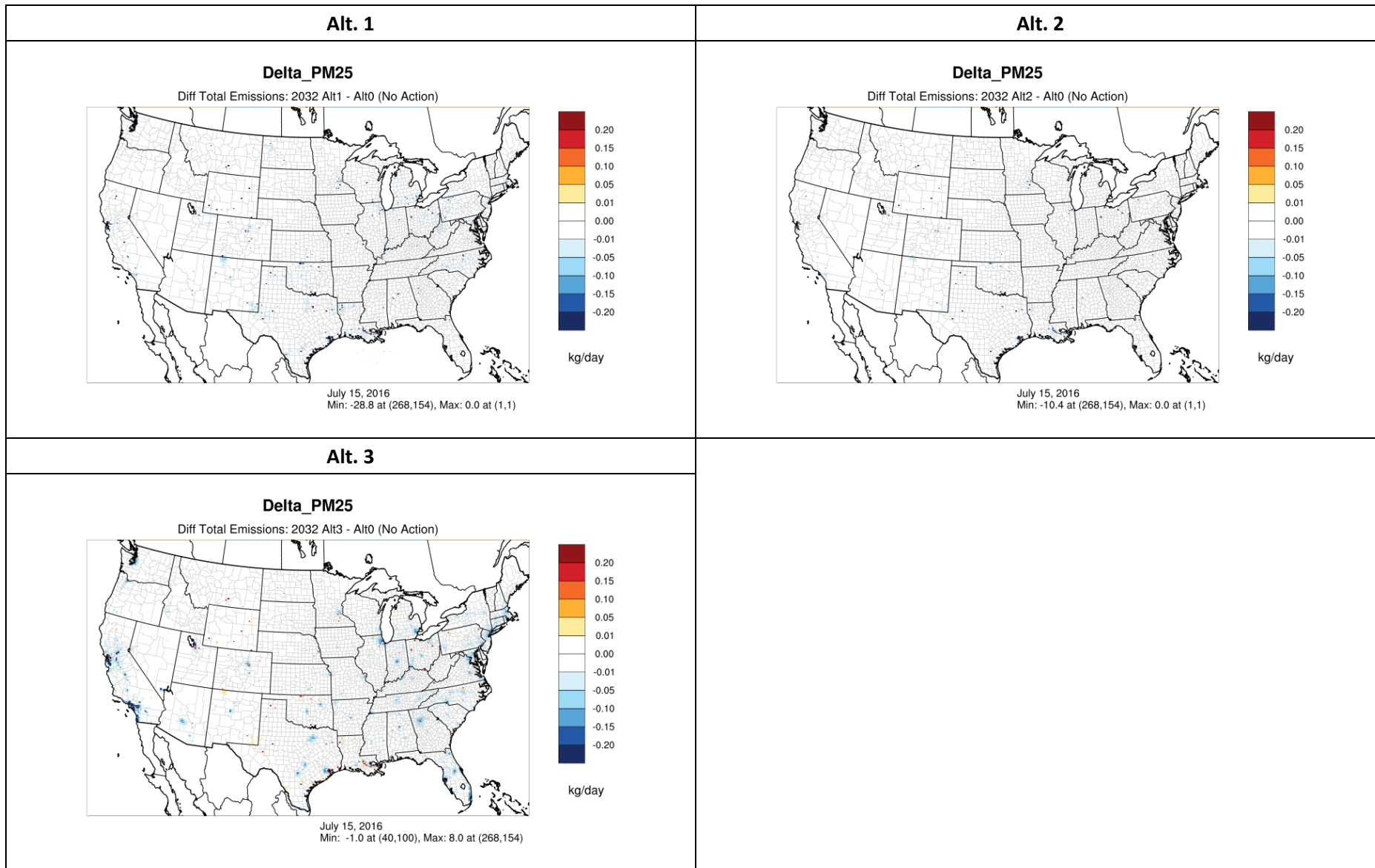


Figure D-9. Differences in Daily Sulfur Dioxide Emissions for July 15 for Alternative 1, 2, and 3 Compared to No Action Alternative



SO<sub>2</sub> = sulfur dioxide

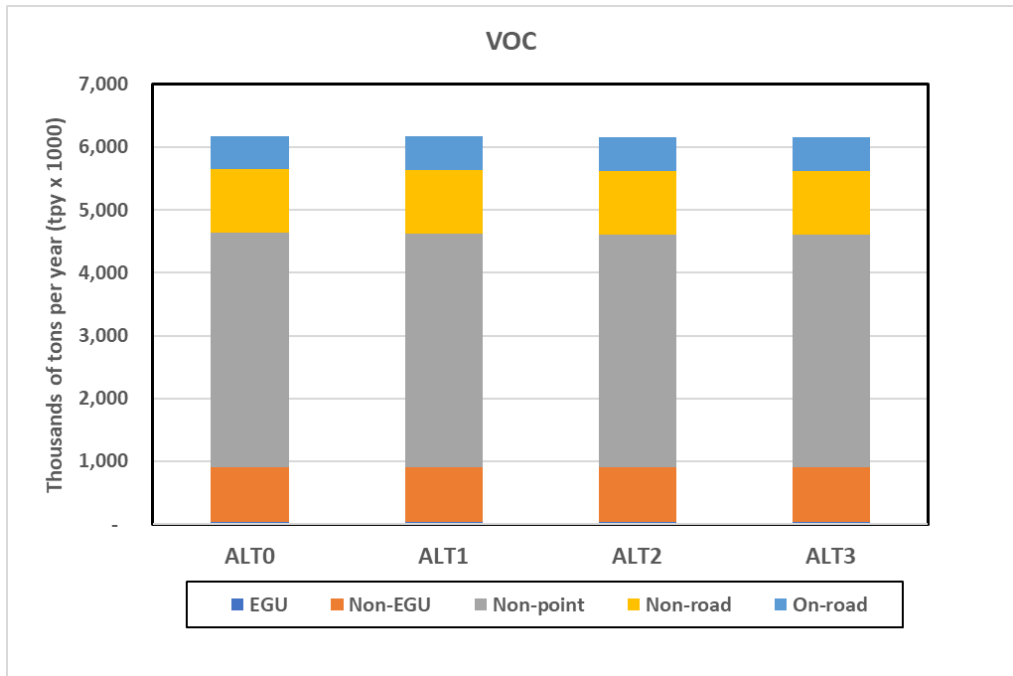
Figure D-10. Differences in Daily PM2.5 Emissions for July 15 for Alternative 1, 2, and 3 Compared to No Action Alternative



PM2.5 = particulate matter 2.5 microns or less in diameter

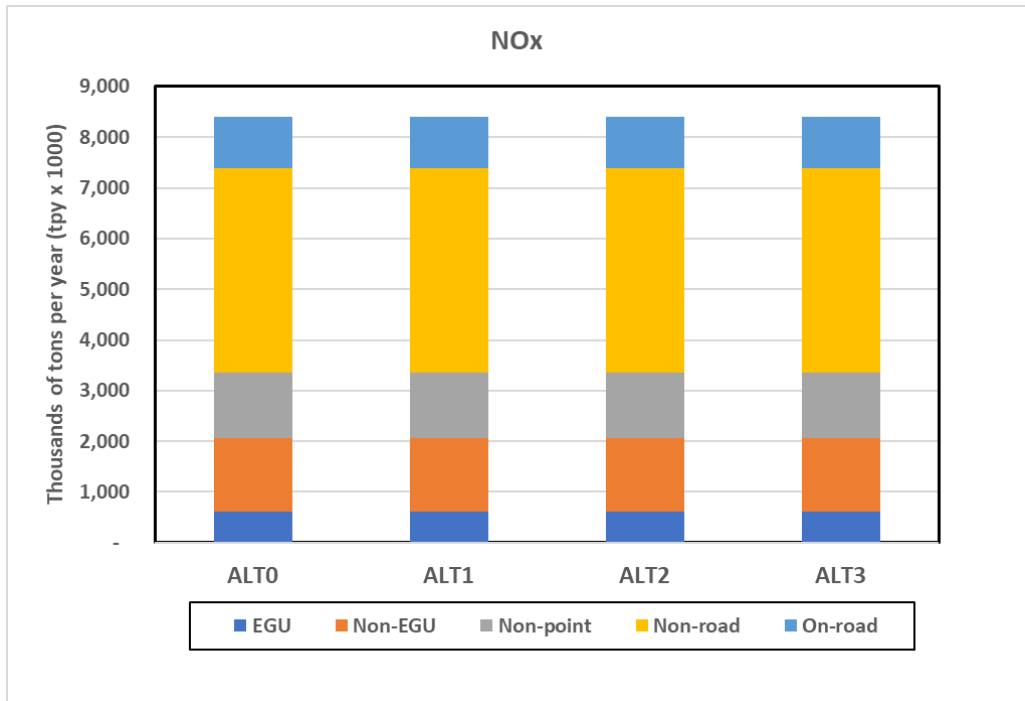
Figures D-11 through D-14 present national emission estimates for the future year by source sector under the No Action Alternative and Alternatives 1 through 3. Annual emissions of VOC, NO<sub>x</sub>, SO<sub>2</sub>, and PM<sub>2.5</sub> are shown.

Figure D-11. National VOC Emissions by Alternative



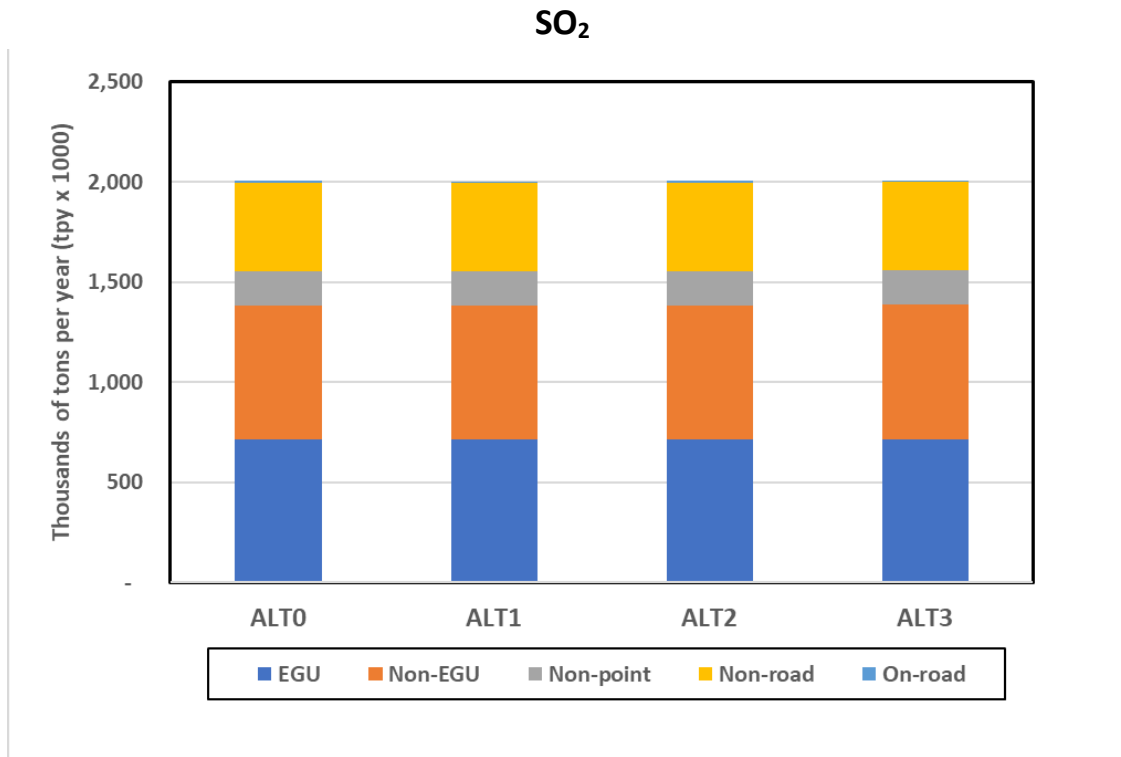
VOC = volatile organic compounds; EGU = electric generating unit

Figure D-12. National NO<sub>x</sub> Emissions by Alternative



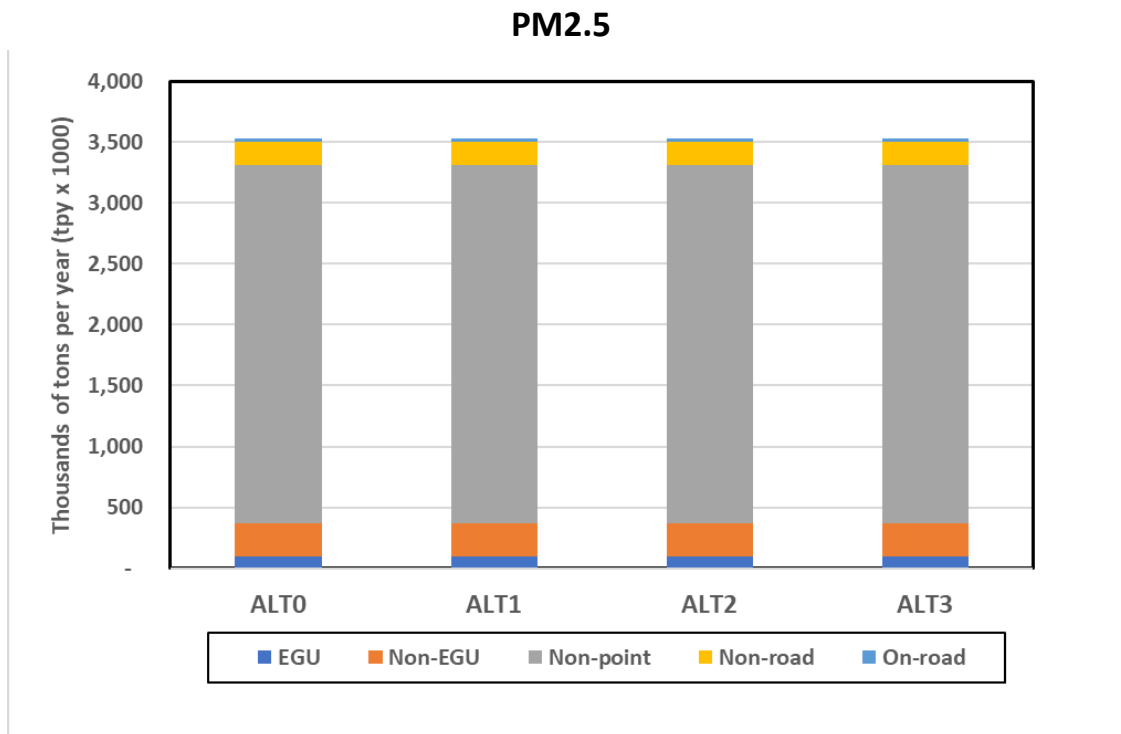
NO<sub>x</sub> = nitrogen oxides; EGU = electric generating unit

Figure D-13. National Sulfur Dioxide Emissions by Alternative



SO<sub>2</sub> = sulfur dioxide; EGU = electric generating unit

Figure D-14. National PM<sub>2.5</sub> Emissions by Alternative



PM<sub>2.5</sub> = particulate matter 2.5 microns or less in diameter; EGU = electric generating unit



On a national scale, anthropogenic VOC emissions are primarily from area (non-point) sources, which include oil and gas production sources; NO<sub>x</sub> emissions come from all source categories; SO<sub>2</sub> emissions primarily derive from EGU and non-EGU industrial point sources; and PM<sub>2.5</sub> emissions come primarily from area (non-point) sources, which include road dust and other anthropogenic fugitive dust such as construction and agricultural dust. For the action alternatives, the expected changes in emissions for cars and light trucks are reflected in the on-road mobile source category, while the expected changes in upstream emissions are reflected in the non-point (area) and non-EGU point source categories. The estimated NO<sub>x</sub> increases in mobile emissions are distributed nationwide but concentrated in urban areas, while most of the declines in upstream emissions are in petroleum development and fuel production states, including Texas, Oklahoma, Louisiana, New Mexico, and North Dakota.

A comparison of the No Action Alternative to the action alternatives indicates that national-scale on-road mobile NO<sub>x</sub> and VOC emissions for action alternatives are all expected to increase, with the largest increase under Alternative 3 and smallest increase under Alternative 1. Contrastingly, on-road mobile SO<sub>2</sub> emissions for all action alternatives are expected to decline compared to the No Action Alternative. NO<sub>x</sub> and VOC emissions increase under the action alternatives because of the rebound effect (i.e., vehicles are driven more miles). SO<sub>2</sub> emissions are directly proportional to the sulfur content in the fuel and the amount of fuel burned, rather than to miles traveled, so decreases in total fuel consumption under the action alternatives result in decreased SO<sub>2</sub> emissions.

On a national scale, upstream VOC, SO<sub>2</sub>, NO<sub>x</sub>, and PM<sub>2.5</sub> emissions show a complex pattern of increases and decreases across action alternatives compared to the No Action Alternative. For example, NO<sub>x</sub> emissions show widespread increases in tailpipe emissions in metropolitan areas associated with the rebound effect. However, under Alternatives 1 and 2, upstream emissions decrease, while under Alternative 3 upstream emissions increase to meet the higher electric vehicle power generation needs. For VOCs, large decreases in oil and gas extraction and production overwhelm the relatively small increase in motor vehicle emissions, resulting in widespread VOC emission reductions. On a local scale, depending on source makeup, distribution, and population, the expected decreases and increases in emissions could be larger or smaller than these national-scale trends.

## **D.3 Air Quality Modeling**

This section presents the air quality modeling methods and results. NHTSA used the CMAQ model to simulate the air quality impacts of the No Action Alternative and the action alternatives. The model was applied using a 12-kilometer resolution grid at the national scale for an annual simulation period. The CMAQ model requires information on the emissions, meteorology, and land-use characteristics of the modeling domain. Information about the emissions changes associated with alternatives was incorporated into the model through the emissions input files for the future model year. Because air quality impacts are calculated at the grid-cell level, the CMAQ model can account for regional differences in the relative magnitudes of the changes in emissions from increased fuel economy, increased vehicle use, and decreased fuel production and distribution potentially resulting from the Proposed Action and alternatives. CMAQ modeling results provide the basis for the health effects and benefits modeling analysis.

### **D.3.1 CMAQ Modeling System**

The CMAQ model is a state-of-the-science, regional air quality modeling system that can be used to simulate the physical and chemical processes that govern the formation, transport, and deposition of gaseous and particulate species in the atmosphere (Byun and Ching 1999; Byun and Schere 2006). The

CMAQ model was designed to improve the understanding of air quality issues (including the physical and chemical processes that influence air quality) and to support the development of effective emissions control strategies at the regional and local scales. The CMAQ model was designed as a “one-atmosphere” model. This concept refers to the ability of the model to dynamically simulate ozone, particulate matter, and other species (such as mercury) in a single simulation. In addition to addressing a variety of pollutants, CMAQ can be applied to a variety of regions (with varying geographical, land-use, and emissions characteristics) and for a range of space and time scales.

Numerous recent applications of the model, for both research and regulatory air quality planning purposes, have focused on the simulation of ozone and PM<sub>2.5</sub>. NHTSA used the CMAQ model to support the previous analyses of the MY 2012–2016 standards (NHTSA 2010), the Phase 1 Medium- and Heavy-Duty Fuel Efficiency Improvement Program (NHTSA 2011), the MY 2017–2025 CAFE standards (NHTSA 2012), the Phase 2 Fuel Efficiency Standards for Medium- and Heavy-Duty Engines and Vehicles (NHTSA 2016), and the Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule for Model Year 2021–2026 Passenger Cars and Light Trucks (NHTSA 2020).

The CMAQ model numerically simulates the physical processes that determine the magnitude, temporal variation, and spatial distribution of the concentrations of ozone and particulate species in the atmosphere, as well as the amount, timing, and distribution of their deposition to Earth’s surface. The simulation processes include advection, dispersion (or turbulent mixing), chemical transformation, cloud processes, and wet and dry deposition. Byun and Ching (1999) describe the CMAQ science algorithms in detail.

This model requires several different types of input files. Gridded, hourly emissions inventories characterize the release of anthropogenic, biogenic and, in some cases, geogenic emissions from sources in the modeling domain. The emissions represent low-level and elevated sources and a variety of source categories (including, for example, point, on-road mobile, non-road mobile, area, and biogenic). The amount and spatial and temporal distribution of each emitted pollutant or precursor species are key determinants of the resulting simulated air quality values.

The CMAQ model also requires hourly, gridded input fields of meteorological parameters, including wind, temperature, mixing ratio, pressure, solar radiation, fractional cloud cover, cloud depth, and precipitation. Byun and Ching (1999) provide a full list of the meteorological input parameters. These parameters are typically prepared using a data-assimilating prognostic meteorological model, the output of which is processed for input to the CMAQ model using the Meteorology-Chemistry Interface Processor (MCIP). The prescribed meteorological conditions influence the transport and vertical mixing and resulting distribution of the simulated pollutant concentrations. Certain meteorological parameters, such as mixing ratio, can also influence the simulated chemical reaction rates. Rainfall and near-surface meteorological characteristics govern wet and dry deposition, respectively, of the simulated atmospheric constituents.

Initial- and boundary-condition files provide information on pollutant concentrations throughout the domain for the first hour of the first day of the simulation and along the lateral boundaries of the domain for each hour of the simulation. Photolysis rates and other chemistry-related input files supply information needed by the gas-phase and particulate chemistry algorithms.

NHTSA used CMAQ version 5.3.3 for this study—the latest version of the model available at the time the modeling was conducted. This version supports several options for the gas-phase chemical mechanism, particle treatment, aerosol deposition, and cloud treatment (Fahey et al. 2017). All simulations

conducted as part of this study used the CB06 (r3) chemical mechanism (Luecken et al. 2019). For particles, NHTSA applied the AERO7 (Xu et al. 2018) particle treatment, which includes sea salt. In addition, NHTSA used the “inline” point source option, in which point source data are read directly by CMAQ and plume rise is calculated internally based on local meteorological conditions.

### **D.3.2 CMAQ Application Procedures for the NHTSA Modeling Analysis**

This section discusses the application of CMAQ, including the modeling domain, simulation period, input files (with the exception of the emissions inventories discussed in Section D.2, *Emissions Inventory Preparation*), and post-processing and quality assurance procedures.

#### **D.3.2.1 Modeling Domain and Simulation Period**

Figure D-1 shows the modeling domain used for this analysis. The 12-kilometer resolution modeling domain (12US2) includes 396 × 246 horizontal grid cells and 35 vertical layers. For this domain, NHTSA ran the model for an entire calendar year. The base-year simulation used emissions that represent 2016. The simulations for the alternatives used emissions for 2032, as available from EPA, except that the NHTSA project’s emissions used in the analysis are projections for 2035. The annual simulation period was divided into four quarters: January through March, April through June, July through September, and October through December. Each quarter included an additional 10 simulation days (start-up period), which allowed the model to reach a steady-state condition and eliminate the influence of the initial conditions on the modeling results. This approach to run CMAQ over four quarters instead of one full year allows faster completion of the simulations by using more computational nodes. The meteorological conditions correspond to 2016 and are used in all the simulations in this study.

#### **D.3.2.2 Meteorological and Other Input Files**

EPA provided input files for the application of the CMAQ model, except for certain components of the emission inventory. The EPA input files included the initial conditions, boundary conditions, and land-use input files for the selected modeling domain and simulation period. In CMAQ version 5.3.3, photolysis rates are calculated within the model. Standard processing procedures were used to convert the EPA input files to the modeling domain and grid resolution used for this study.

EPA prepared the meteorological input files for the base year (2016) using the Weather Research and Forecasting (WRF) model version 3.8 (Skamarock et al. 2008). WRF is a state-of-the-science atmospheric modeling system designed for use in simulating meteorological fields for a broad range of scales and applications. EPA applied the WRF model at a 12-kilometer resolution. A summary of the meteorological model configuration and performance is available from EPA (EPA 2019a). EPA converted the WRF output to 12-kilometer resolution meteorology (CMAQ-ready) using the MCIP tool version 4.3. The vertical resolution, consisting of 35 vertical layers, was kept the same as in the EPA modeling platform.

#### **D.3.2.3 Model Performance Evaluation**

NHTSA conducted a limited model performance evaluation (MPE) for the 12-kilometer modeling domain. The MPE was conducted following EPA guidance (EPA 2007, 2014). NHTSA prepared base-case emission inputs for 2016, based on data provided by EPA and conducted CMAQ modeling for the base year.

NHTSA evaluated the base-year CMAQ simulation results using graphical and statistical analysis. Specifically, NHTSA compared simulated ozone and PM<sub>2.5</sub> concentrations with observed data, using a

variety of graphical and statistical analysis products. The analysis was conducted using the Atmospheric Model Evaluation Tool (AMET) version 1.4 (Appel et al. 2011; UNC 2008). AMET generates a wide variety of statistical measures and graphical analysis products to facilitate the evaluation of CMAQ model performance. Table D-5 summarizes key statistical measures that were used to quantify model performance.

**Table D-5. Metrics for CMAQ Model Performance Evaluation for the Air Quality Modeling Analysis**

<b>Metric</b>	<b>Definition</b>
# of data pairs	The number of observation/simulation data pairs
Mean observation value	The average observed concentration
Mean simulation value	The average simulated concentration
Normalized bias	$\left(\frac{1}{N}\right) \sum_{l=1}^N (S_l - O_l) / O_l \cdot 100\%$ where N is the number of data pairs, and S <sub>l</sub> and O <sub>l</sub> are the simulated and observed values at site l, respectively, over a given time interval.
Median bias (MdnB)	$median(S_l - O_l)_N$
Fractional bias	$\left(\frac{1}{N}\right) \sum_{l=1}^N (S_l - O_l) / 0.5 (S_l + O_l) \cdot 100\%$
Normalized error	$\left(\frac{1}{N}\right) \sum_{l=1}^N  S_l - O_l  / O_l \cdot 100\%$
Median error (MdnE)	$median S_l - O_l _N$ where the vertical bars denote the absolute value between the simulated and observed values.
Fractional error	$\left(\frac{1}{N}\right) \sum_{l=1}^N  S_l - O_l  / 0.5(S_l + O_l) \cdot 100\%$
Index of agreement (IofA)	A measure of how well the model represents the pattern of perturbation about the mean value; ranges from 0 to 1 where higher values indicate better agreement.

In calculating the statistical measures, AMET pairs the CMAQ model output with the observed data for the appropriate locations and time intervals. These modeled and observed pairs are used to analyze the model performance. The normalized mean bias (NMB) and normalized mean error (NME) statistical measures are compared to numerical goals and criteria benchmarks<sup>6</sup> recommended by Emery et al. (2017). Another set of widely used benchmarks was established by the U.S. Regional Planning Organizations based on fractional bias (FB) and fractional error (FE) (Boylan and Russell 2006). The purpose of MPE benchmarks is not to give a passing or failing grade to a model application, but rather to

<sup>6</sup> *Goal benchmarks* indicate statistical values that about a third of top-performing past applications have met. *Criteria benchmarks* indicate statistical values that about two thirds of past applications have met.

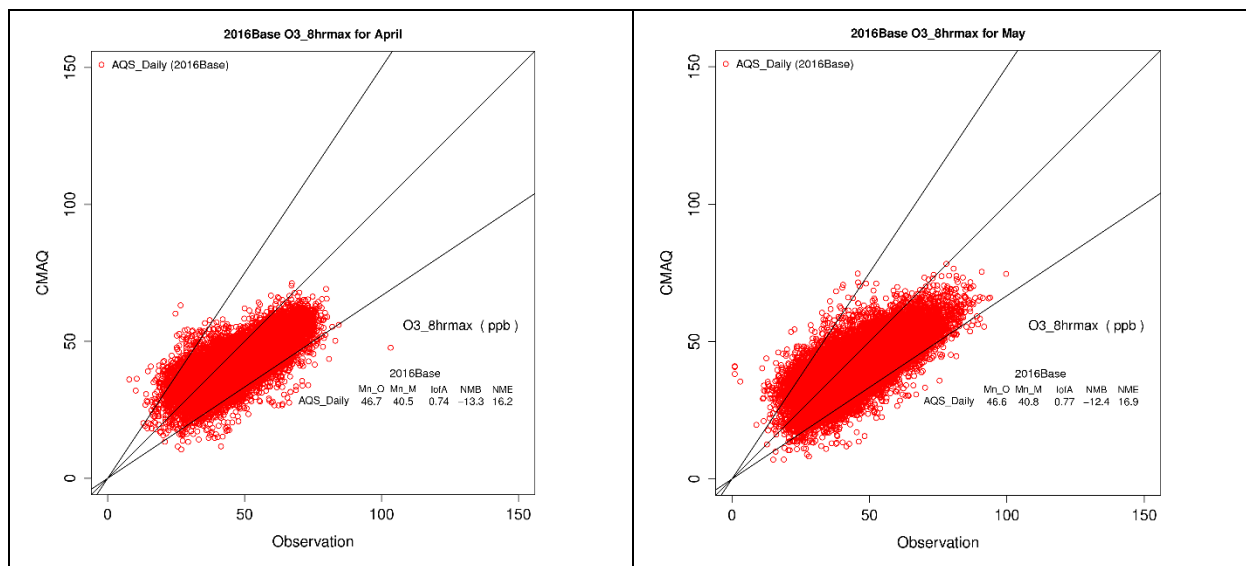
put its results into context of previous applications that establish what level of performance can be realistically expected.

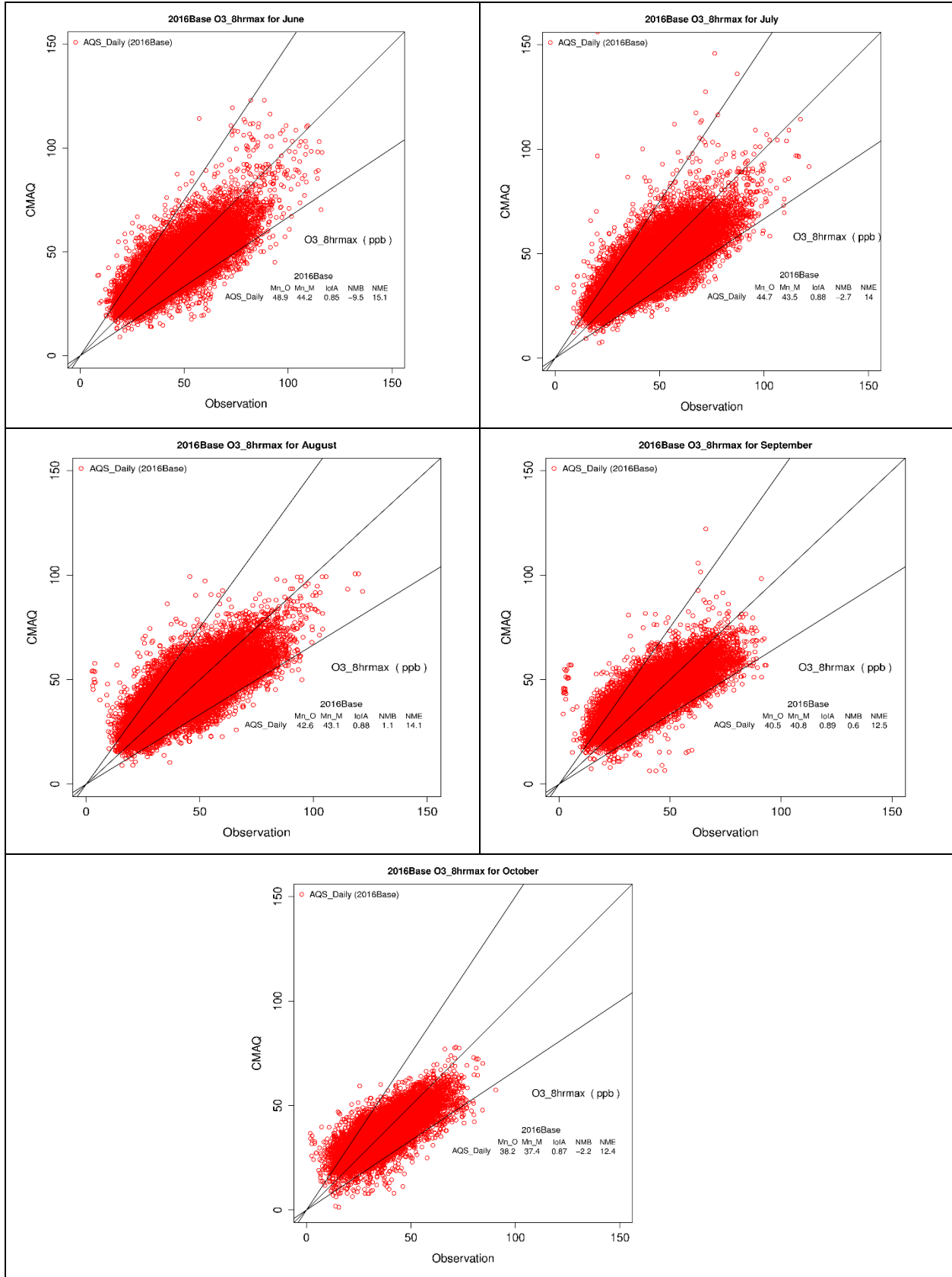
**Ozone**

NHTSA evaluated CMAQ’s base-year model performance for ozone and the results are summarized in this section. The evaluation focused on daily maximum 8-hour average (MDA8) ozone concentration and the typical ozone season months of April through October. The observed values are based on EPA’s Air Quality System (AQS) monitoring data for the base year of 2016. The units are parts per billion (ppb).

Scatter plots comparing simulated and observed MDA8 ozone concentrations for all monitoring sites in the contiguous United States for the months of April through October are presented in Figure D-15. The scatter plots provide a visual representation of how well the simulated values match the observations and can reveal biases toward over- or underestimation of the observed values. Also included on the scatter plot is some statistical information further summarizing model performance. These statistical measures are calculated using the 8-hour average ozone concentrations. The solid lines on the plot are for visual reference and are drawn with slopes of 1:1 (center), 1.5:1 (upper), and 1:1.5 (lower).

**Figure D-15. Simulated and Observed Daily Maximum 8-Hour Average Ozone Concentration (ppb), April through October, for the U.S. Portion of the NHTSA CMAQ Modeling Domain**





The scatter plots indicate good agreement between the simulated and the full range of observed values. There is a general tendency for CMAQ to underestimate the ozone concentrations, including some of the highest concentrations (August). The good overall agreement is characterized by an index of agreement statistic of approximately 0.8 for most months (ranging from 0.74 in April to 0.89 in September). The normalized mean error for all months is within the 25 percent criteria range (Table D-6).

Summary metrics and statistical measures calculated using MDA8 ozone concentrations for all sites within the 48 contiguous states and Washington, D.C. are presented in Tables D-6 and D-7. Statistics were calculated for the individual months of the traditional ozone season (April through October) and the full ozone season. The recommended ranges for the normalized bias and normalized error shown in this table are based on recent regional-scale MPE metrics (Emery et al. 2017). The NMB and NME statistics were calculated using a lower bound of 40 ppb (Table D-6) and a lower bound of 60 ppb (Table D-7). Simulation-observation pairs were not included in the calculation if the observed value is less than the lower bound.

**Table D-6. Model Performance Statistics for Daily Maximum 8-Hour Average Ozone Concentration for the U.S. Portion of the NHTSA CMAQ Modeling Domain: 40 ppb Lower Bound**

Metric	Apr	May	Jun	Jul	Aug	Sep	Oct	Average Apr–Oct	Goal	Criteria
Mean observed (ppb)	50.4	51.8	54.2	52.7	52.4	50.0	47.4	51.6		
Mean simulated (ppb)	42.2	43.5	47.7	48.8	49.6	47.0	43.1	46.0		
Mean Bias (ppb)	-8.2	-8.2	-6.5	-3.9	-2.7	-3	-4.4	-5.6		
Mean Error (ppb)	8.4	8.75	7.9	7	6.3	5.3	5.3	7.3		
Normalized mean bias (%)	-16.3	-15.9	-12	-7.4	-5.3	-6	-9.2	-10.9	±5%	±15%
Normalized mean error (%)	16.7	16.9	14.7	13	12	10.6	11.2	14.1	<15%	<25%
Fractional bias (%)	-17.6	-17.3	-13	-7.8	-5.3	-6.1	-9.7	-11.7		
Fractional error (%)	18.1	18.4	15.7	13.4	12.2	10.7	11.7	14.9		
RMSE (ppb)	9.7	10.2	9.71	9.0	8.4	7.2	6.8	9.0		

CMAQ = Community Multiscale Air Quality; ppb = parts per billion

**Table D-7. Model Performance Statistics for Daily Maximum 8-Hour Average Ozone Concentration for the U.S. Portion of the NHTSA CMAQ Modeling Domain: 60 ppb Lower Bound**

Metric	Apr	May	Jun	Jul	Aug	Sep	Oct	Average Apr–Oct	Goal	Criteria
Mean observed (ppb)	64.9	65.7	67.4	68.5	68.6	66.9	65.2	67.1		
Mean simulated (ppb)	50.9	51.5	56.3	58.2	59.0	56.8	52.7	55.6		
Mean Bias (ppb)	-13.9	-14.1	-11.1	-10.3	-9.6	-10.1	-12.5	-11.5		
Mean Error (ppb)	14	14.2	11.9	11.6	10.7	10.9	12.8	12.2		
Normalized mean bias (%)	-21.5	-21.5	-16.5	-15	-14	-15.1	-19.2	-17.2	±5%	±15%
Normalized mean error (%)	21.5	21.6	17.7	16.9	15.6	16.3	19.6	18.2	<15%	<25%
Fractional bias (%)	-24.4	-24.4	-18.6	-17	-15.5	-16.8	-21.8	-19.4		
Fractional error (%)	24.4	24.4	19.6	18.7	17.1	17.9	22.2	20.4		
RMSE (ppb)	14.8	15.2	13.6	13.8	13	12.8	14.5	13.9		

CMAQ = Community Multiscale Air Quality; ppb = parts per billion

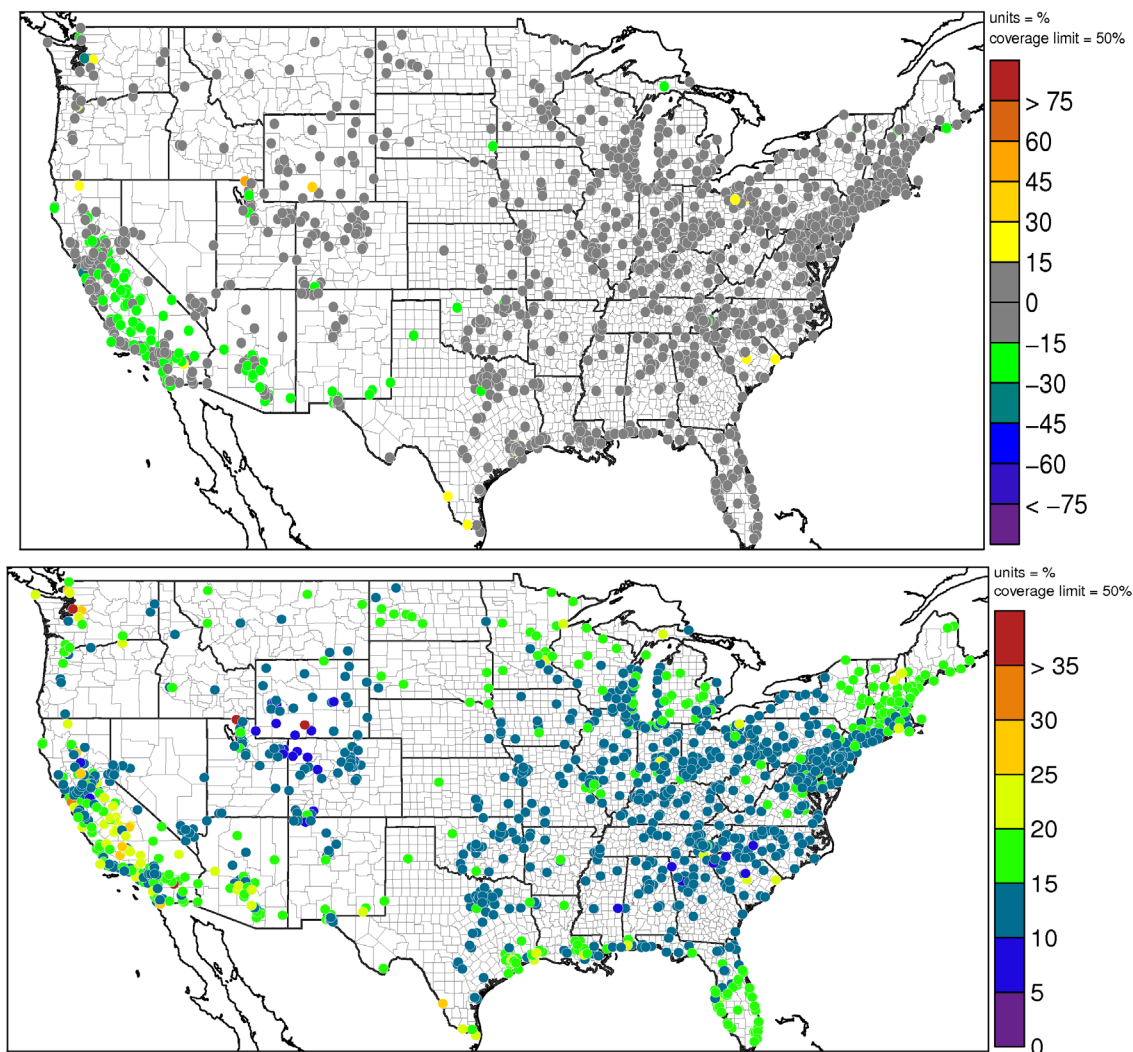
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Using the MDA8 ozone concentrations and a lower bound of 40 ppb (Table D-6), the overall NMB is within  $\pm 15$  percent, and the NME is well within 25 percent for the period that encompasses the ozone season (April through October). Ozone is underestimated each month, with April showing the largest underprediction (NMB of -16.3 percent) and August showing the smallest underprediction (NMB of -5.3 percent). Only about 10 percent of the observed concentrations are larger than 60 ppb. The statistics calculated using a lower bound of 60 ppb (Table D-7) indicate that higher ozone concentrations are systematically underestimated during all months in the ozone season. The NMB is only within the criteria benchmark of  $\pm 15$  percent during August. The NME is well within the criteria threshold of 25 percent, but the goal benchmark of 15 percent is exceeded for all months. Overall, model performance is generally reasonable considering the full range of ozone observations, but the model exhibits a consistent and systematic underprediction during the ozone season for concentrations larger than 40 ppb and this underprediction is more pronounced for concentrations larger than 60 ppb.

The statistical measures were calculated for the entire United States, but it is expected that these will vary from region to region. To illustrate the spatial variation in the agreement between the simulated and observed values, Figure D-16 depicts the average from April through October of the NMB and NME for all sites in the United States portion of the modeling domain, based on MDA8 ozone concentrations. Each monitoring site is represented by a circle and the shading of the circle provides information about how well the hourly observed ozone concentrations are represented by the simulation results, on average. For the NMB, gray shaded circles indicate that the bias is within  $\pm 15$  percent and this corresponds to model performance within the established criteria. Blue and green shading indicates underestimation of observed concentrations and yellow, orange, and red shading indicates overestimation. For the NME, blue and green shading represent the smaller errors, while orange and red indicate errors larger than 25 percent.



**Figure D-16. Site-Specific Normalized Mean Bias (%; Top) and Normalized Mean Error (%; Bottom) Based on Daily Maximum 8-Hour Average Simulated and Observed Ozone Concentrations (April through October Combined)**



These plots indicate that overall model performance with the full range of observations is consistently good throughout the United States. For most monitoring sites, the normalized bias is within  $\pm 15$  percent (as indicated by the gray shading). Ozone is underestimated in the western United States region, especially in California, and overestimated at a few isolated sites, with good performance throughout the remaining sites in the modeling domain. The NME is less than 25 percent for nearly all monitoring sites except at isolated sites in Southern California, Washington, northern Utah, southern Wyoming and along the Texas-Mexico border.

### **PM<sub>2.5</sub>**

NHTSA evaluated CMAQ's base-year model performance for total PM<sub>2.5</sub> and the results are summarized in this section. The evaluation focused on 24-hour average PM<sub>2.5</sub> concentrations. The observed values for the base year of 2016 are based on monitoring data from multiple air quality networks, including EPA's AQS database, the Chemical Speciation Network (CSN), the Interagency Monitoring of Protected Visual Environments (IMPROVE) network, and the South-Eastern Aerosol Research and Characterization

(SEARCH) network. SEARCH and SLAMS networks use the federal reference method (FRM) or federal equivalent method. IMPROVE monitors are capable of supplementing FRM data in association with PM<sub>2.5</sub> standards. Speciation samplers do not measure PM<sub>2.5</sub> the same way as FRM monitors (Frank 2006) and thus without adjustment, CSN and FRM PM<sub>2.5</sub> measurements differ. However, the CSN monitoring data were not adjusted but were reported separately in the MPE.

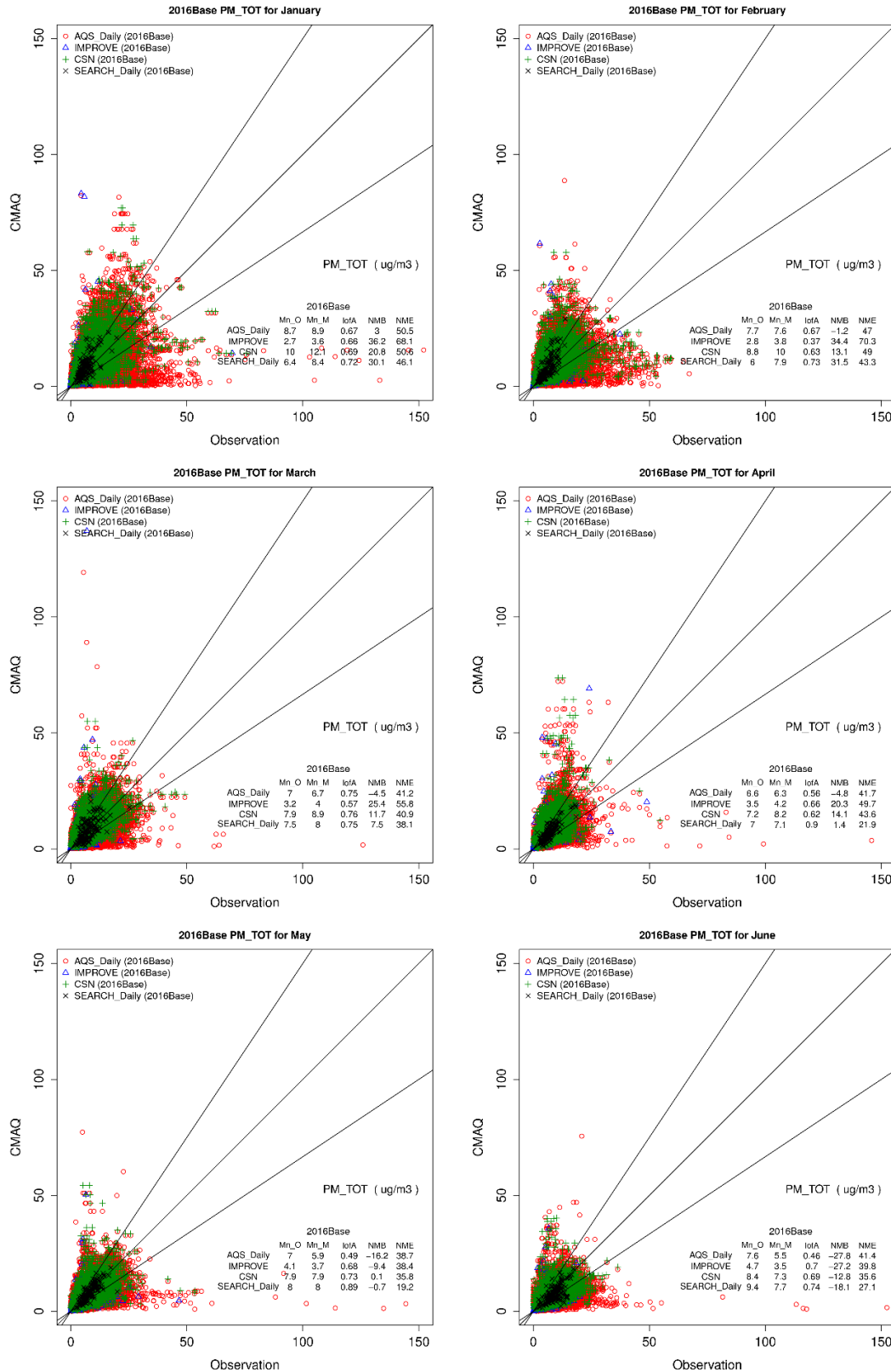
Scatter plots comparing simulated and observed 24-hour PM<sub>2.5</sub> concentrations for all monitoring sites in the 48 contiguous states and Washington, D.C. for each month of the annual simulation period are presented in Figure D-17. This included all oriented monitoring types.

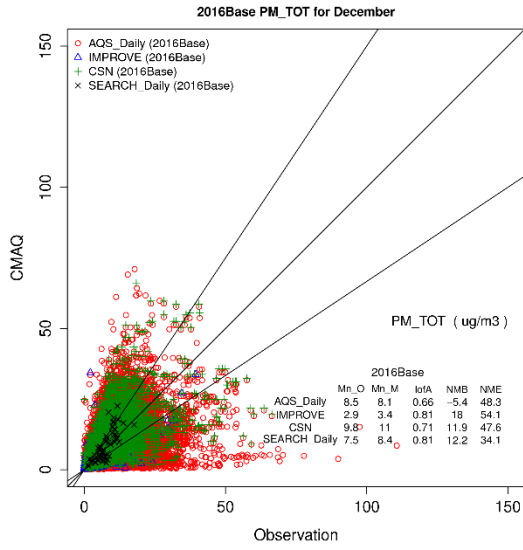
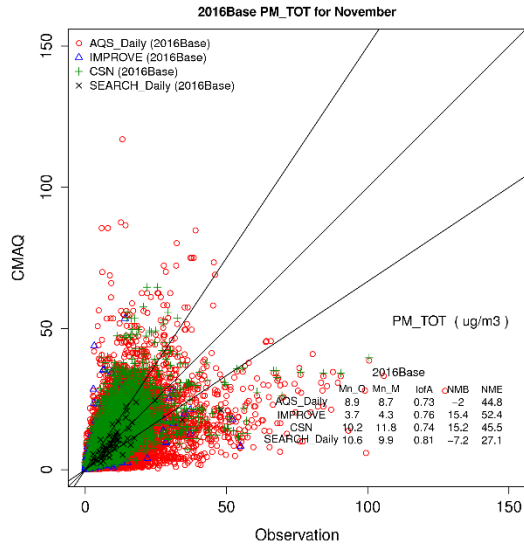
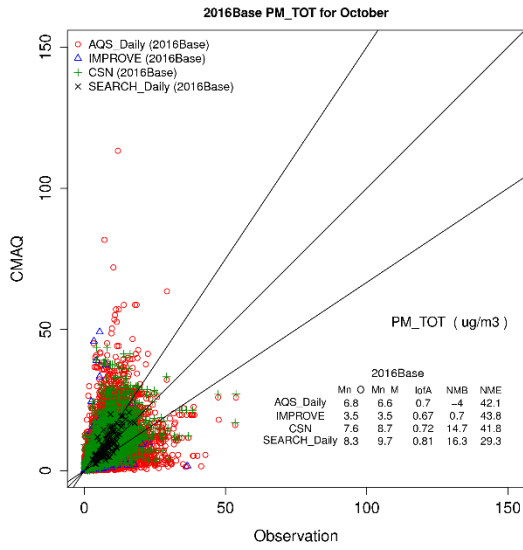
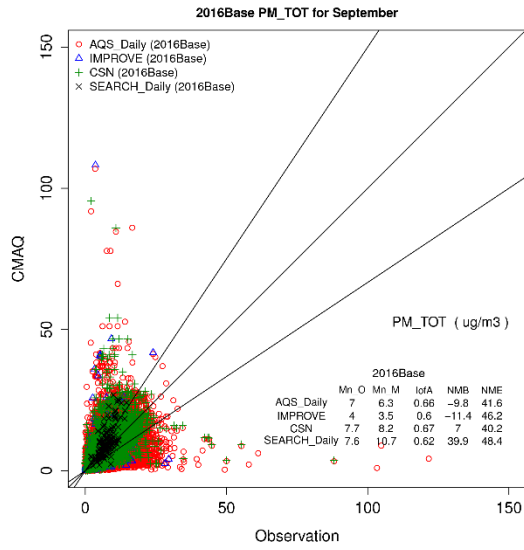
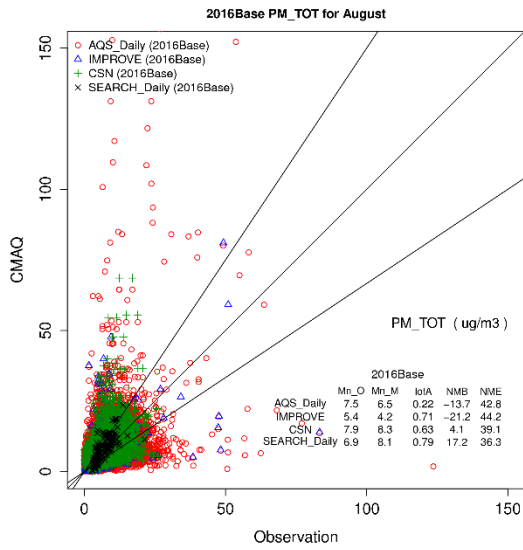
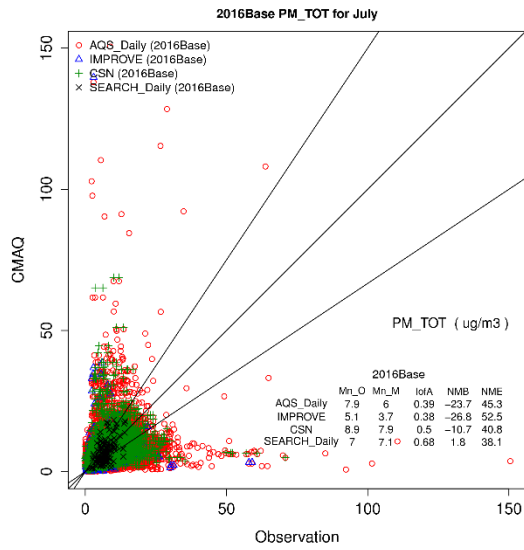
The scatter plots indicate a mix of under- and overestimation of total PM<sub>2.5</sub> concentration for most months. There is a general tendency for CMAQ to underestimate the higher concentrations, especially during May through August. Also, CMAQ tends to overestimate lower concentrations (less than 25 micrograms per cubic meter [ $\mu\text{g}/\text{m}^3$ ]) especially during July and August. Overall performance when compared with observations for AQS is characterized by an index of agreement that ranges from 0.22 in August to 0.75 in March. The index of agreement is not consistent among the networks and varies significantly within each month.

Summary metrics and statistical measures calculated using daily 24-hour average PM<sub>2.5</sub> concentrations for all sites within the 48 contiguous states are presented in Table D-8 through Table D-11.

Statistics for each month and the full annual simulation period were calculated separately for each air quality network. Because the observed concentrations can be quite small and there is no accepted minimum threshold, normalized bias and error are not well suited to characterizing model performance for PM<sub>2.5</sub>. However, the FB and FE are better suited for the PM<sub>2.5</sub> analysis. The recommended ranges for the FB and FE are based on Boylan (2005) and are widely used for regional-scale MPE for PM<sub>2.5</sub>. No lower bound was applied in calculating the statistics. While statistics are presented for multiple air quality networks, the MPE focused on the AQS database due to the large number of data pairs and wide spatial distribution of sites within the 48 contiguous states and Washington, D.C.

Figure D-17. Comparison of Simulated and Observed 24-Hour Average PM<sub>2.5</sub> Concentration ( $\mu\text{g}/\text{m}^3$ ) by Month for the U.S. Portion of the NHTSA CMAQ Modeling Domain





**Table D-8. Model Performance Statistics for Daily 24-Hour Average PM2.5 Concentration for the U.S. Portion of the NHTSA CMAQ Modeling Domain, AQS database**

Metric	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	Goal	Criteria
Mean observed (µg/m <sup>3</sup> )	8.7	7.7	7.0	6.6	7.0	7.6	7.9	7.5	7.0	6.8	8.9	8.5	7.6		
Mean simulated (µg/m <sup>3</sup> )	8.9	7.6	6.7	6.3	5.9	5.5	6.0	6.5	6.3	6.6	8.7	8.1	6.9		
Mean Error (µg/m <sup>3</sup> )	4.4	3.6	2.9	2.8	2.7	3.1	3.6	3.2	2.9	2.9	4.0	4.1	3.4		
Mean Bias (µg/m <sup>3</sup> )	0.3	-0.1	-0.3	-0.3	-1.1	-2.1	-1.9	-1.0	-0.7	-0.3	-0.2	-0.5	-0.7		
Normalized mean bias (%)	3.0	-1.2	-4.5	-4.8	-16.2	-27.8	-23.7	-13.7	-9.8	-4.0	-2.0	-5.4	-9.0		
Normalized mean error (%)	50.5	47.0	41.2	41.7	38.7	41.4	45.3	42.8	41.6	42.1	44.8	48.3	44.0		
Fractional bias (%)	-0.4	-2.3	-6.6	-5.9	-17.2	-30.9	-27.5	-17.4	-16.8	-10.8	-6.7	-7.9	-12.6	< ±30	< ± 60
Fractional error (%)	50.3	47.4	44.7	42.4	42.5	48.4	50.8	45.1	46.5	45.1	45.8	49.4	46.5	< 50	< 75
RMSE (µg/m <sup>3</sup> )	7.1	5.7	4.4	5.6	6.7	6.8	8.0	13.0	5.0	4.4	6.6	6.7	7.1		

CMAQ = Community Multiscale Air Quality; µg/m<sup>3</sup> = micrograms per cubic meter; PM2.5 = particulate matter 2.5 microns or less in diameter

**Table D-9. Model Performance Statistics for Daily 24-Hour Average PM2.5 Concentration for the U.S. Portion of the NHTSA CMAQ Modeling Domain, CSN**

Metric	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	Goal	Criteria
Mean observed (µg/m <sup>3</sup> )	10.0	8.8	7.9	7.2	7.9	8.4	8.9	7.9	7.7	7.6	10.2	9.8	8.5		
Mean simulated (µg/m <sup>3</sup> )	12.1	10.0	8.9	8.2	7.9	7.3	7.9	8.3	8.2	8.7	11.8	11.0	9.2		
Mean Error (µg/m <sup>3</sup> )	5.1	4.3	3.2	3.1	2.8	3.0	3.6	3.1	3.1	3.2	4.6	4.7	3.7		
Mean Bias (µg/m <sup>3</sup> )	2.1	1.2	0.9	1.0	0.0	-1.1	-1.0	0.3	0.5	1.1	1.6	1.2	0.7		
Normalized mean bias (%)	20.8	13.1	11.7	14.1	0.1	-12.8	-10.7	4.1	7.0	14.7	15.2	11.9	7.7		
Normalized mean error (%)	50.6	49.0	40.9	43.6	35.8	35.6	40.8	39.1	40.2	41.8	45.5	47.6	42.9		
Fractional bias (%)	18.4	14.6	11.3	10.8	-0.1	-14.0	-12.6	0.6	1.6	10.5	12.7	11.8	5.5	< ±30	< ± 60
Fractional error (%)	44.7	44.0	39.7	39.4	36.2	38.7	41.6	37.9	38.7	38.5	41.2	43.2	40.3	< 50	< 75
RMSE (µg/m <sup>3</sup> )	7.5	6.8	4.8	5.5	4.4	4.3	6.2	4.9	5.3	4.8	7.1	7.0	5.8		

CMAQ = Community Multiscale Air Quality; µg/m<sup>3</sup> = micrograms per cubic meter; PM2.5 = particulate matter 2.5 microns or less in diameter

**Table D-10. Model Performance Statistics for Daily 24-Hour Average PM2.5 Concentration for the U.S. Portion of the NHTSA CMAQ Modeling Domain, IMPROVE Network**

Metric	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	Goal	Criteria
Mean observed (ppb)	2.7	2.8	3.2	3.5	4.1	4.7	5.1	5.4	4.0	3.5	3.7	2.9	3.8		
Mean simulated (ppb)	3.6	3.8	4.0	4.2	3.7	3.5	3.7	4.2	3.5	3.5	4.3	3.4	3.8		
Mean Error (ppb)	1.8	2.0	1.8	1.7	1.6	1.9	2.7	2.4	1.9	1.5	2.0	1.6	1.9		
Mean Bias (ppb)	1.0	1.0	0.8	0.7	-0.4	-1.3	-1.4	-1.1	-0.5	0.0	0.6	0.5	0.0		
Normalized mean bias (%)	36.2	34.4	25.4	20.3	-9.5	-27.2	-26.8	-21.2	-11.4	0.7	15.4	18.0	-0.4		
Normalized mean error (%)	68.1	70.3	55.8	49.7	38.4	39.8	52.5	44.2	46.2	43.8	52.4	54.1	49.7		
Fractional bias (%)	34.1	34.7	27.0	20.1	-8.2	-31.5	-37.7	-34.9	-28.1	-5.2	17.2	25.7	0.7	< ±30	< ± 60
Fractional error (%)	58.7	56.4	51.3	43.6	38.7	44.7	56.6	49.8	48.6	41.9	47.8	52.2	49.2	< 50	< 75
RMSE (ppb)	4.4	7.7	4.6	3.6	3.2	2.9	5.9	4.6	4.4	3.3	4.0	2.8	4.4		

CMAQ = Community Multiscale Air Quality;  $\mu\text{g}/\text{m}^3$  = micrograms per cubic meter; PM2.5 = particulate matter 2.5 microns or less in diameter

**Table D-11. Model Performance Statistics for Daily 24-Hour Average PM2.5 Concentration for the U.S. Portion of the NHTSA CMAQ Modeling Domain,SEARCH Network**

Metric	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	Goal	Criteria
Mean observed (ppb)	6.4	6.0	7.5	7.0	8.0	9.4	7.0	6.9	7.6	8.3	10.6	7.5	7.5		
Mean simulated (ppb)	8.4	7.9	8.0	7.1	8.0	7.7	7.1	8.1	10.7	9.7	9.9	8.4	8.3		
Mean Error (ppb)	3.0	2.6	2.8	1.5	1.5	2.5	2.7	2.5	3.7	2.4	2.9	2.6	2.5		
Mean Bias (ppb)	1.9	1.9	0.6	0.1	-0.1	-1.7	0.1	1.2	3.1	1.4	-0.8	0.9	0.8		
Normalized mean bias (%)	30.1	31.5	7.5	1.4	-0.7	-18.1	1.8	17.2	39.9	16.3	-7.2	12.2	10.2		
Normalized mean error (%)	46.1	43.3	38.1	21.9	19.2	27.1	38.1	36.3	48.4	29.3	27.1	34.1	33.8		
Fractional bias (%)	19.3	18.8	-1.5	-2.8	-4.8	-22.6	-8.1	3.3	24.8	9.8	-6.1	1.9	3.1	< ±30	< ± 60
Fractional error (%)	38.3	32.9	37.4	24.8	21.1	32.5	39.9	36.6	36.0	26.7	26.2	31.9	32.4	< 50	< 75
RMSE (ppb)	4.0	3.9	3.7	2.0	2.1	3.4	3.5	3.3	5.2	3.3	5.2	3.5	3.6		

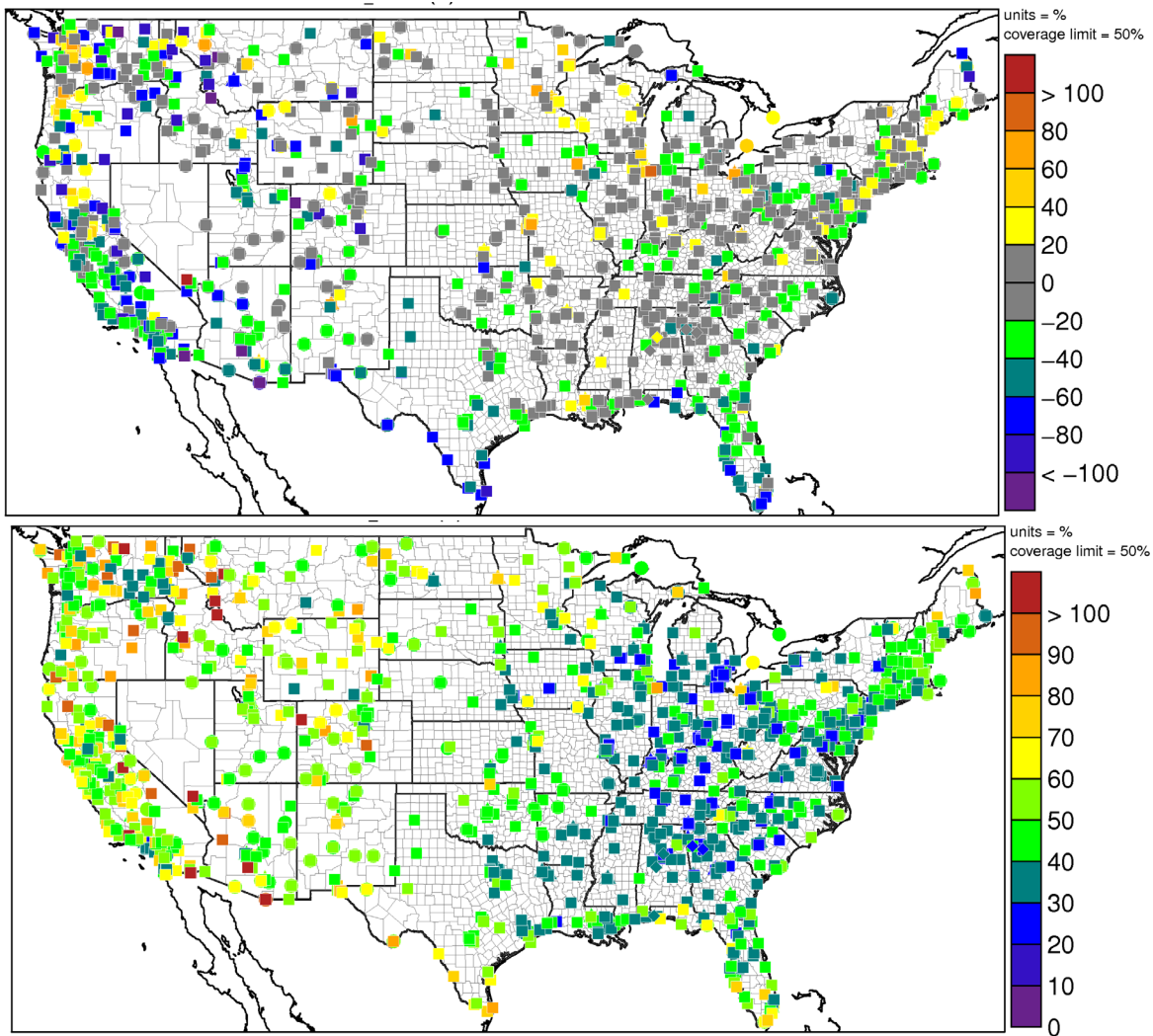
CMAQ = Community Multiscale Air Quality;  $\mu\text{g}/\text{m}^3$  = micrograms per cubic meter; PM2.5 = particulate matter 2.5 microns or less in diameter

The statistical measures based on AQS indicate that model performance is reasonable. The FB is within the criteria of  $\pm 60$  percent and the FE well within the criteria of 75 percent for all months and the full period. The model is also well within the goal benchmark for FE except for July and January. There is a general tendency for CMAQ to underestimate PM<sub>2.5</sub> concentrations throughout the year. The bias is largest during the summer months (May, June, July, and August) and lowest during the fall and winter months. FB values based on the CSN, IMPROVE, and SEARCH networks indicate that the model tends to overestimate PM<sub>2.5</sub> concentrations during fall and winter months, but they also show a systematic underprediction during the summer months, particularly for June and July.

To illustrate the agreement between the simulated and observed values, Figure D-18 depicts the FB and FE statistics for the AQS, SEARCH, IMPROVE, and CSN sites within the U.S. portion of the modeling domain. The statistics were calculated using 24-hour average PM<sub>2.5</sub> concentrations and are for the annual simulation period. The monitoring sites from each network are represented by different symbols and the shading of each symbol provides information about how well the 24-hour observed PM<sub>2.5</sub> concentrations are represented by the simulation results, on average. For the FB, gray shaded circles indicate that the FB is within  $\pm 20$  percent and, in general, values within  $\pm 60$  percent (lighter colors) correspond to acceptable model performance. Blue and green shading indicate underestimation of the observed concentrations and yellow, orange, and red shading indicate overestimation. For the FE, blue and green shading represent the smaller errors, while red indicates an error larger than 100 percent. Values less than 75 percent are considered to represent reasonable model performance for PM<sub>2.5</sub>.

These plots indicate that overall model performance is good to very good for most of the eastern United States. In other areas, the model performance is characterized by slight underestimation of PM<sub>2.5</sub> concentrations for the western United States, along the United States-Mexico border and Florida. This could be due to the influence of regional wildfires in the western United States, which affect the observed concentrations in those states but are difficult to capture in the emissions inventory and the modeling. While wildfires can be excluded from the observational dataset as exceptional events, because of the effort to identify and obtain approval for excluding exceptional events, measurements affected by wildfire impacts typically are included in the observational dataset. For most monitoring sites, however, the FB is within  $\pm 60$  percent (as indicated by the gray, yellow, light orange, and green shading). The FE is less than 75 percent for most monitoring sites, with some exceptions throughout California, along the southwestern United States border, and in the mountain western states.

Figure D-18. Site-Specific Fractional Bias (%; Top) and Fractional Error (%; Bottom) Based on Daily 24-Hour Average Simulated and Observed PM2.5 Concentrations (Annual). Sites shown are from the following networks: AQS (squares), CSN (triangles), IMPROVE (circles), and SEARCH (diamonds).



PM2.5 = particulate matter 2.5 microns or less in diameter; AQS = air quality system; CSN = chemical speciation network; IMPROVE = interagency monitoring of protected visual environments; SEARCH = South Eastern Aerosol Research and Characterization

### D.3.2.4 Post-Processing and Quality Assurance Procedures

Quality assurance of the CMAQ runs included the following steps. NHTSA routinely checked scripts to ensure that the correct input files and output file names were used. NHTSA checked and reconciled any error messages CMAQ generated. NHTSA prepared plots of ozone and PM2.5 for the No Action Alternative as well as the differences in concentrations for these species between each alternative and the No Action Alternative. For example, these included MDA8 ozone concentration and 24-hour average PM2.5 concentration on July 15 and annual average PM2.5 concentrations. To be consistent with the National Ambient Air Quality Standards (NAAQS), NHTSA also plotted the fourth-highest MDA8 concentration and the 98th percentile 24-hour average PM2.5 concentration in 2035 for the No Action Alternative. Additionally, NHTSA plotted the maximum changes in 24-hour average PM2.5 concentrations and MDA8 ozone concentrations between each action alternative and the No Action



Alternative. These difference plots were examined and compared with the results for other runs. Because of differences in the form of the NAAQS, maximum changes in MDA8 ozone concentrations were paired in space and time, while maximum changes in 24-hour average PM<sub>2.5</sub> concentrations were paired in space but not in time. NHTSA checked the concentration patterns and values for reasonableness and compared the results for each alternative to ensure that differences in the CMAQ results were consistent with the emissions changes.

Following these actions to ensure the quality of the modeling results, NHTSA post-processed the CMAQ results for input to the health impacts and benefits modeling, as discussed in Section D.4, *Health Effects and Benefits Modeling*.

### **D.3.3 CMAQ Modeling Results**

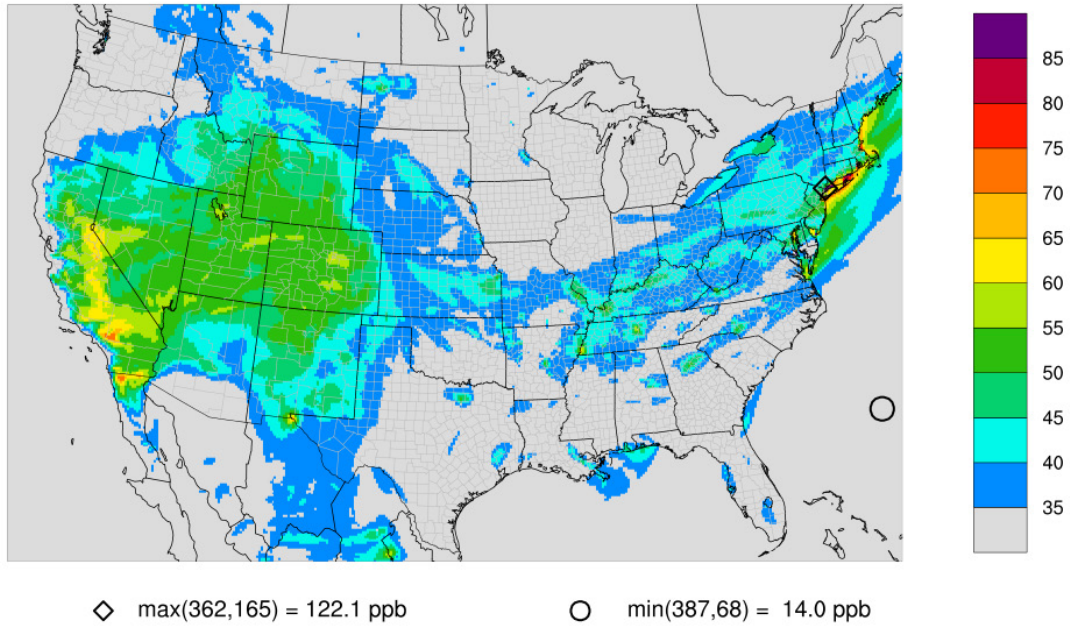
This section presents the CMAQ modeling results. The modeling results for ozone and PM<sub>2.5</sub> were used to calculate health effects and monetized health-related benefits provided in Section D.4, *Health Effects and Benefits Modeling*. The results for ozone are presented first, followed by the results for PM<sub>2.5</sub>.

#### **D.3.3.1 Ozone**

Figure D-19 shows future-year simulated MDA8 ozone concentrations (ppb) on July 15 for the No Action Alternative. NHTSA selected this day as an example ozone-season day to display ozone concentrations (for all simulations), primarily because generally clear summertime conditions prevail across the United States, and the relatively high ozone observed is typical of the ozone season. The minimum and maximum values for any location in the domain are also provided, along with their grid cell location (x,y coordinates are provided relative to the modeling domain shown in Figure D-1).

Figure D-19 indicates that MDA8 ozone concentrations for this day are generally less than 70 ppb (the current 8-hour ozone NAAQS) throughout the domain except at a few locations in the northeastern United States and Southern California where ozone exceeds 70 ppb. The maximum concentration of 122 ppb occurs near the New York metropolitan region. A single day is not fully representative of modeled ozone-season concentrations and results for this day do not necessarily represent the fourth highest MDA8 value, and thus are not directly comparable to the standard.

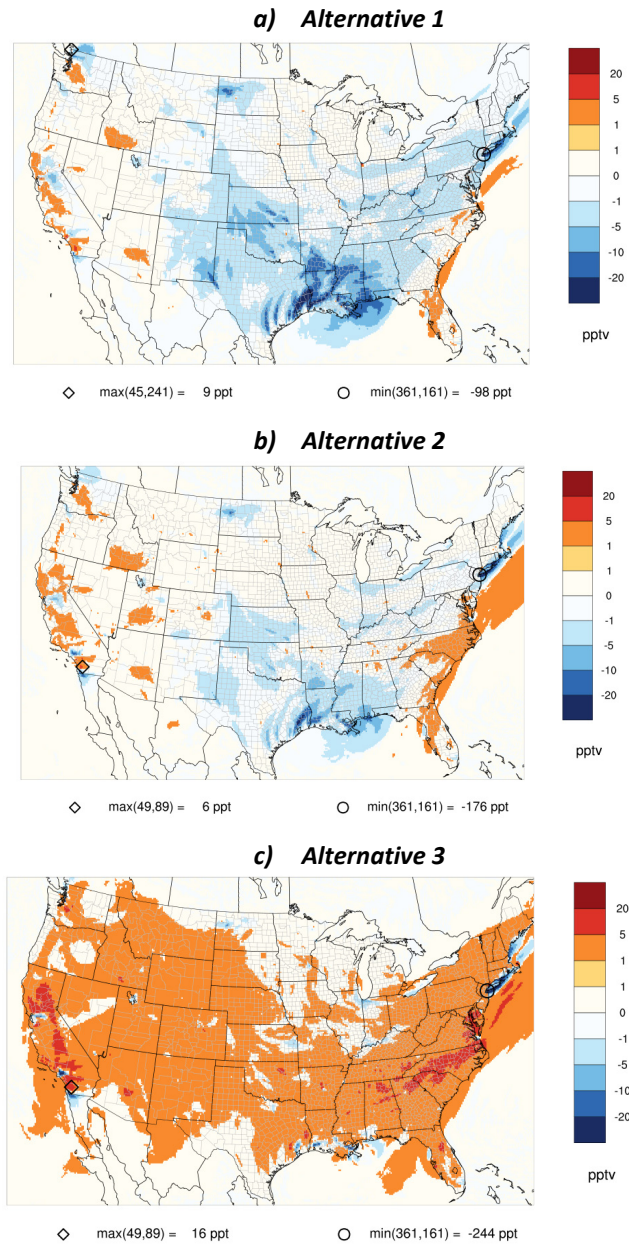
Figure D-19. Simulated Daily Maximum 8-Hour Ozone Concentration (ppb) for July 15, 2035: No Action Alternative, Direct and Indirect Impacts



From a meteorological perspective, the modeled ozone concentration patterns on July 15, 2016 were affected by local and large-scale weather patterns situated over the contiguous United States (NOAA 2016). The modeled ozone concentrations are relatively high in the western and northeastern United States, consistent with above-average temperatures and below-average precipitation widespread across the southern half of the United States and along the East Coast. The modeled concentrations are not as high over the northern portion of the United States, consistent with near- to below-average temperatures and above-average precipitation observed across the Northwest, Northern Plains, and parts of the Midwest.

Figure D-20 illustrates the simulated differences in MDA8 ozone between each action alternative and the No Action Alternative for July 15. To enable the reader to see the very small spatial differences between the alternatives and the No Action Alternative, ozone concentration differences are presented in units of parts per trillion (ppt), which is 1/1,000 of a ppb. The federal ozone standard is 70 ppb. In general, ozone concentrations tend to decrease in Texas and Louisiana (Gulf-Coast region) and northeastern coastal regions. Ozone concentrations tend to increase in western states (California, Washington, Arizona, Idaho, and Utah) and southeastern coastal regions. The decrease in ozone concentrations around the Gulf-Coast region is larger for Alternative 1 than Alternative 2. For Alternative 3, ozone increased throughout the modeling domain at all major urban areas with some decreases in Texas, California, and New York.

Figure D-20. Difference in Simulated Daily Maximum 8-hour Ozone Concentration (ppb) for July 15, 2035: Direct and Indirect Impacts under the Action Alternatives Compared to the No Action Alternative



The location, extent, and magnitude of the impact on ozone concentrations are consistent with the emissions changes. The key precursor pollutants for ozone are VOC and NO<sub>x</sub>. The largest reductions in NO<sub>x</sub> emissions (Figure D-8) occur in Texas, New Mexico, Louisiana and North Dakota, while the largest reductions in VOC (Figure D-7) occur in the eastern half of the United States, where the largest decrease in ozone concentration is observed for Alternatives 1 and 2 (Figures D-20). Similarly, the largest increases in NO<sub>x</sub> emissions occur in coastal urban areas, where ozone concentrations tend to increase under Alternatives 1 and 2. For Alternative 3, the domain-wide reductions in VOC and increases in NO<sub>x</sub> emissions lead to systematic increases in ozone concentrations throughout the United States, except at

major urban areas like Houston, New York, Los Angeles, and the San Francisco Bay Area. The largest decrease in ozone concentration for any given grid cell on July 15 ranges from approximately 244 ppt (0.244 ppb) under Alternative 3 to 98 ppt (0.098 ppb) under Alternative 1. The largest increase in ozone concentration ranges from approximately 16 ppt (0.016 ppb) under Alternative 3 to 6 ppt (0.006 ppb) under Alternative 2. For all alternatives, the largest increase occurs near the border with Mexico, close to San Diego, while the largest decrease occurs near the New York metropolitan region.

The response of the model to changes in emissions is influenced by the complex photochemistry represented by the model. For example, under certain conditions (usually characterized by relatively low VOC-to-NO<sub>x</sub> ratio), decreases in VOC emissions lead to decreases in ozone. This likely accounts for the decrease in ozone in the New York, the Gulf Coast, Los Angeles, and other areas. Similarly, regions with a high VOC-to-NO<sub>x</sub> ratio experience increases in ozone concentrations in response to increases in NO<sub>x</sub> emissions, consistent with the increases in ozone observed in some western and eastern coastal states.

The response of the model to the changes in emissions varies from region to region and is influenced by the amount and spatial distribution of the emission changes and the relative changes in emissions for the different pollutant species (VOC versus NO<sub>x</sub>).

### **D.3.3.2 Ozone Maximum Impacts**

Figure D-21 shows future-year simulated fourth-highest MDA8 ozone concentrations (ppb) for the No Action Alternative. The annual fourth-highest MDA8 ozone concentration is calculated for 1 year but in a manner consistent with the form of the current NAAQS. The minimum and maximum values for any location in the domain are also provided, along with their grid cell locations (x, y coordinates are provided relative to the modeling domain shown in Figure D-1).

Figure D-21 indicates that 8-hour ozone concentrations in the future year do not exceed 70 ppb throughout the United States except at a few areas such as the larger urban locations Los Angeles, Chicago, and New York, shown by the red and purple colors on the figure. The highest ozone concentrations are predicted to occur in Southern California and the northeastern United States. The ozone concentrations in most of the United States are well below the 70-ppb standard. As shown in Figure D-21, while most areas of the country are predicted to be in attainment of the 8-hour ozone standard by 2035, ozone concentrations exceeding the NAAQS would still occur.

Figure D-21. Simulated Fourth-Highest Daily Maximum 8-hour Ozone Concentration (ppb) for 2035: No Action Alternative, Direct and Indirect Impacts

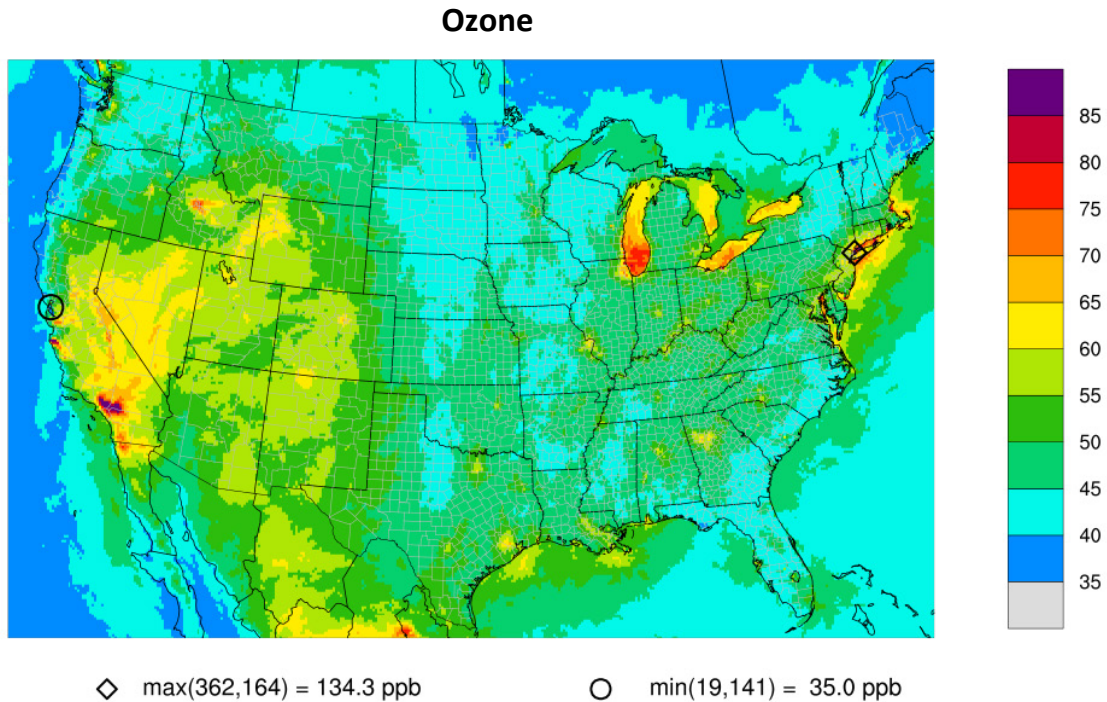
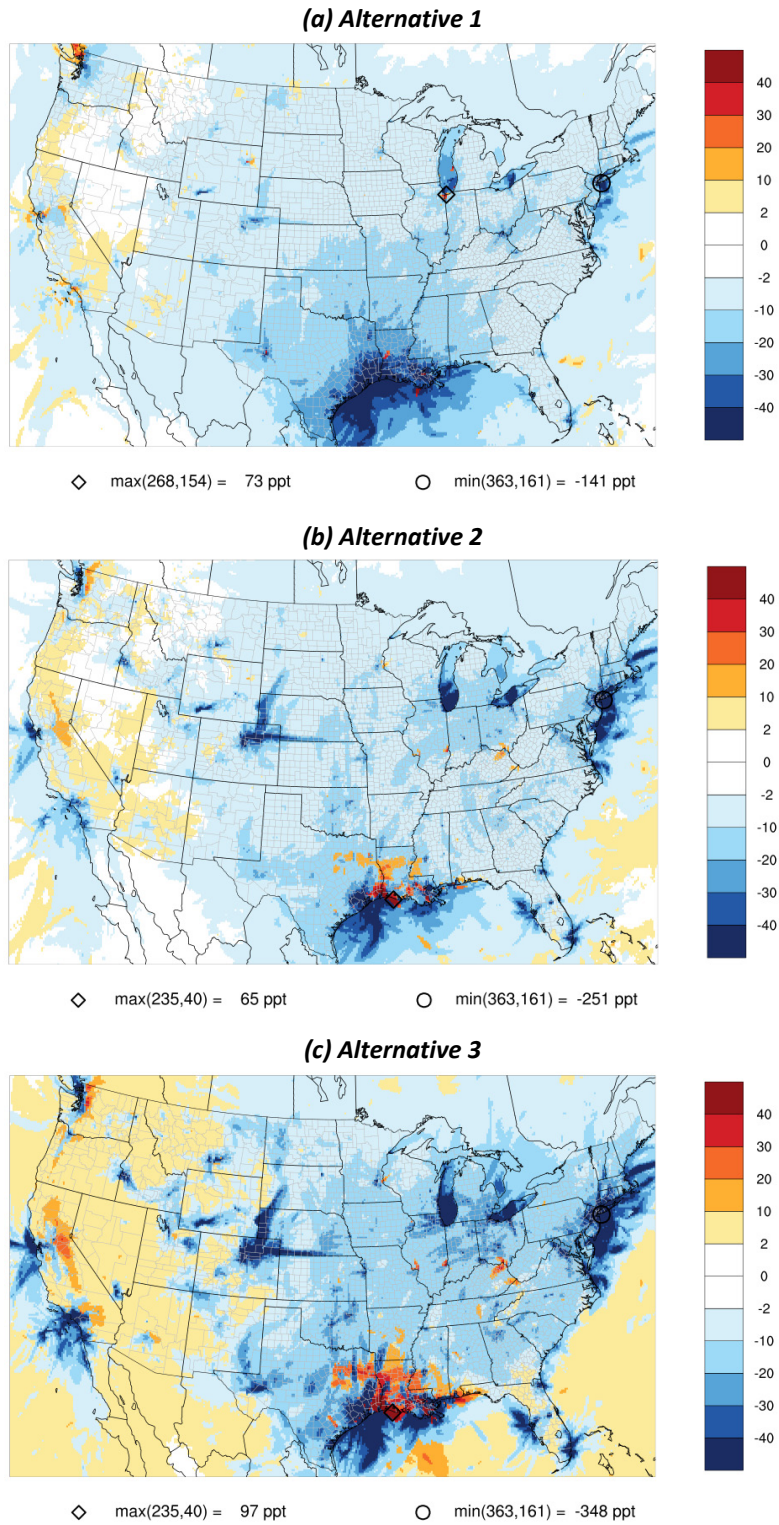


Figure D-22 illustrates the maximum differences in simulated MDA8 ozone between each action alternative and the No Action Alternative. To enable the reader to see the very small spatial differences between the alternatives and the No Action Alternative, ozone concentration differences are presented in units of ppt, which is 1/1,000 of a ppb. In general, ozone concentrations tend to increase in the western United States and decrease elsewhere with significant decreases in Texas, Louisiana, and the Gulf Coast region. Compared with results for July 15, the spatial distribution of impacts on ozone remains similar: the largest increases in ozone tend to occur in the western United States and isolated locations in Texas and Louisiana because of decreases in both  $\text{NO}_x$  and VOC emissions upstream resulting in near-field decrease but with increases seen further downwind for Alternatives 2 and 3. The largest decreases generally occur in major urban areas, the Texas-Louisiana Gulf Coast and ports near large  $\text{NO}_x$  emissions sources causing titration of ozone. MDA8 ozone concentration differences for a given alternative relative to the No Action Alternative are a factor of 6 to 10 times larger than the differences that occur on July 15. Thus, while 8-hour ozone concentrations on July 15 may be representative of the ozone season on average, acute changes in ozone are larger than those experienced on July 15.

Similar to July 15, the differences in ozone concentration between each action alternative and the No Action Alternative are smallest under Alternative 1 and largest under Alternative 3. In general, the magnitude and spatial extent of the differences in ozone concentration between each action alternative and the No Action Alternative tend to increase from Alternative 1 to Alternative 3. The largest decrease in ozone concentration for any given grid cell ranges from approximately 348 ppt (0.348 ppb) under Alternative 3 to 141 ppt (0.141 ppb) under Alternative 1. The largest increase in ozone concentration ranges from approximately 65 ppt (0.065 ppb) under Alternative 2 to 97 ppt (0.097 ppb) under Alternative 3. For Alternatives 2 and 3, the largest increase in ozone concentrations is located in southern Louisiana, while for Alternative 1 the largest increase occurs near the Chicago metropolitan area.



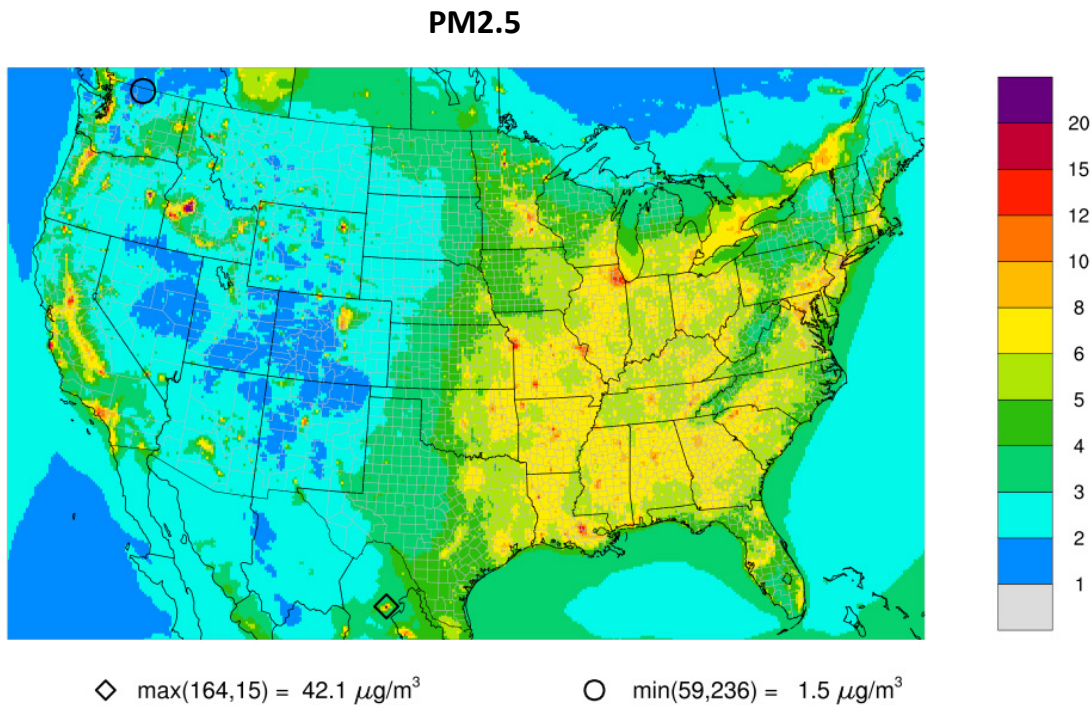
Figure D-22. Maximum Difference in Simulated Daily Maximum 8-hour Ozone Concentration (ppb) for 2035: Direct and Indirect Impacts under Action Alternatives minus the No Action Alternative



### D.3.3.3 Annual Average PM2.5

Figure D-23 displays future-year simulated annual average PM2.5 concentrations ( $\mu\text{g}/\text{m}^3$ ) under the No Action Alternative. This plot indicates areas of higher PM2.5 in the eastern half of the United States, California, and a few isolated areas in the western states. Except for a few isolated grid cells, the annual average concentration throughout the United States is less than the current annual primary NAAQS of  $12 \mu\text{g}/\text{m}^3$ . The minimum and maximum values for any location in the domain are provided on each figure, along with their grid cell locations (x, y coordinates are provided relative to the modeling domain shown in Figure D-1).

**Figure D-23. Simulated Annual Average PM2.5 Concentration ( $\mu\text{g}/\text{m}^3$ ) for 2035: No Action Alternative, Direct and Indirect Impacts**

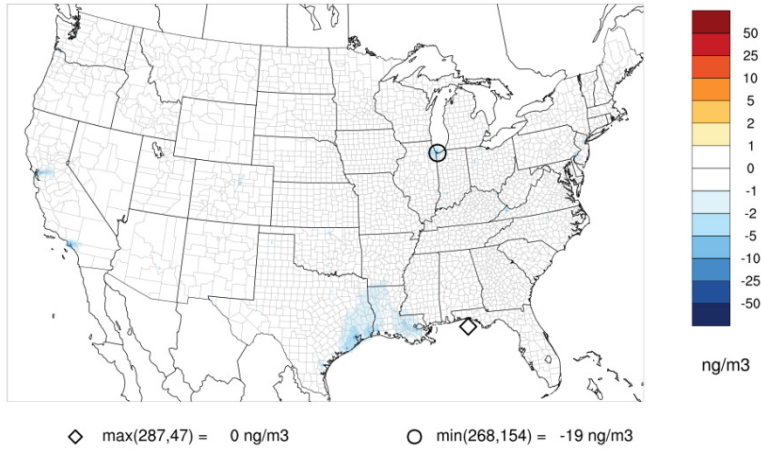


PM2.5 = particulate matter 2.5 microns or less in diameter;  $\mu\text{g}/\text{m}^3$  = micrograms per cubic meter

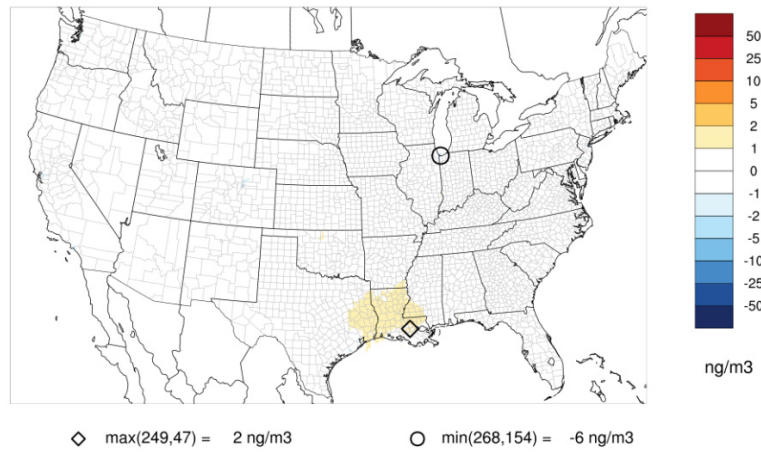
To enable the reader to see the very small spatial differences between the alternatives and the No Action Alternative, Figure D-24 displays the difference in simulated annual average PM2.5 concentration in nanograms per cubic meter ( $\text{ng}/\text{m}^3$ ) for each action alternative compared to the No Action Alternative (i.e., Alternative 1 minus the No Action Alternative, Alternative 2 minus the No Action Alternative, and Alternative 3 minus the No Action Alternative). Values reported in units of  $\text{ng}/\text{m}^3$  are 1/1,000 of the ambient air standard. Alternative 1 shows slight decreases in PM2.5 concentrations, most noticeable in southeastern Texas, Louisiana, and urban areas in California: San Francisco and Los Angeles. Alternative 2 shows no changes from the No Action Alternative over almost all the United States, except for slight increases in PM2.5 concentrations in southeastern Texas and Louisiana. Alternative 3 shows higher increases in PM2.5 than Alternative 2 in the same regions and near the San Francisco Bay Area in California. Alternative 3 shows a slight decrease in concentrations in the Denver metropolitan area.

Figure D-24. Difference in Simulated Annual Average PM2.5 Concentration (ng/m<sup>3</sup>) for 2035: Direct and Indirect Impacts under Action Alternatives minus the No Action Alternative

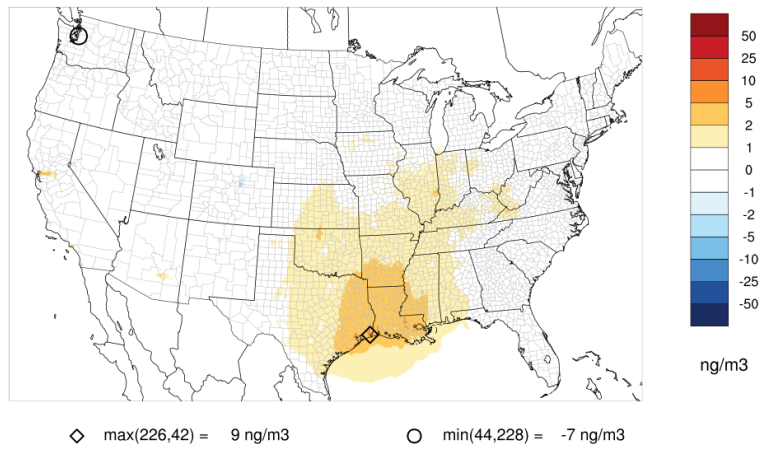
(a) Alternative 1



(b) Alternative 2



(c) Alternative 3



PM2.5 = particulate matter 2.5 microns or less in diameter; ng/m<sup>3</sup> = nanograms per cubic meter



Total PM<sub>2.5</sub> consists of primary PM<sub>2.5</sub> released directly into the atmosphere and secondary PM<sub>2.5</sub> formed in the atmosphere through a series of complex reactions involving precursor species. In most areas of the United States, secondary PM<sub>2.5</sub> is a much larger component of total PM<sub>2.5</sub> than primary PM<sub>2.5</sub>. The key precursor pollutants for secondary PM<sub>2.5</sub> are SO<sub>2</sub>, NO<sub>x</sub>, and VOCs. Modeled emissions for these species under all action alternatives are very similar compared to the No Action Alternative. As indicated in Section D.2, *Emissions Inventory Preparation*, total emissions of primary PM<sub>2.5</sub> from all sectors are effectively the same for all the action alternatives compared to the No Action Alternative and this indicates that the changes in annual average PM<sub>2.5</sub> concentrations presented in this section are mostly due to impacts on secondary PM<sub>2.5</sub>.

Impacts on total PM<sub>2.5</sub> concentrations are governed by the magnitude and spatial distribution of primary PM<sub>2.5</sub> emissions and the emissions of secondary PM<sub>2.5</sub> precursors. For Alternative 1, the lower total tailpipe emissions of PM<sub>2.5</sub> and its precursors reflected in the modeling, results in slight decreases in PM<sub>2.5</sub> concentrations in areas such as Southern and Northern California, Denver, and Chicago. On the other hand, for Alternatives 2 and 3, the impact of higher upstream emissions of particulate matter and its precursors can be seen in the modeling results as an increase in PM<sub>2.5</sub> concentration in areas of the Gulf of Mexico such as Louisiana and Texas.

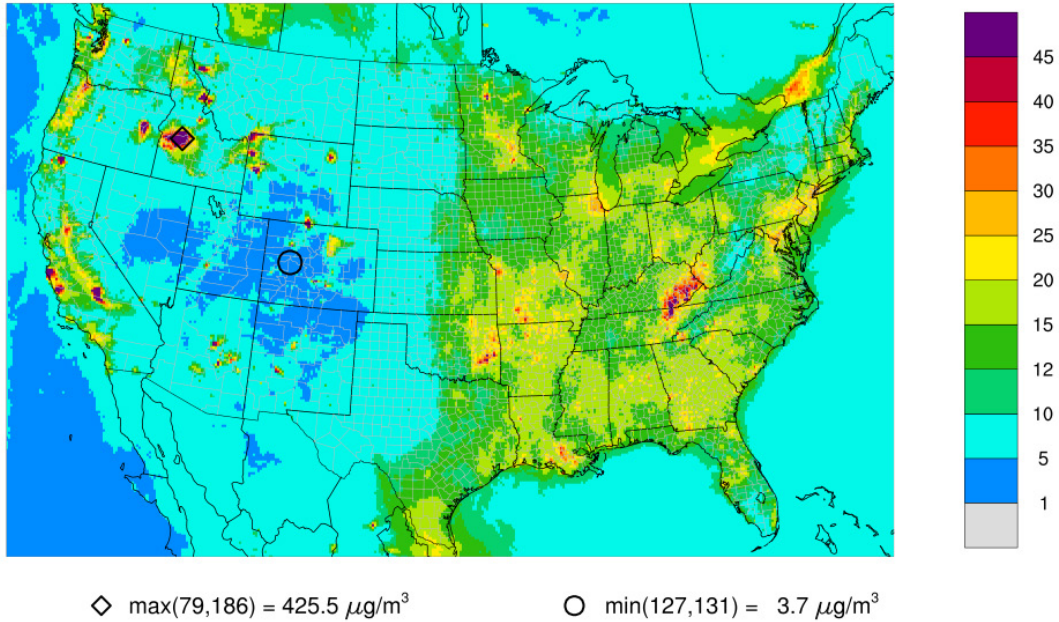
The differences in PM<sub>2.5</sub> concentration between each action alternative and the No Action Alternative are smallest under Alternative 3 and largest under Alternative 1. In general, magnitude and spatial extent of the differences in PM<sub>2.5</sub> concentration between each action alternative and the No Action Alternative tend to decrease from Alternative 3 to Alternative 1. The largest decrease in PM<sub>2.5</sub> concentration for any given grid cell in any of the action alternatives compared with the No Action Alternative is 19 ng/m<sup>3</sup> (0.019 µg/m<sup>3</sup>) under Alternative 1. Similarly, the largest increase of 9 ng/m<sup>3</sup> (0.009 µg/m<sup>3</sup>) occurs under Alternative 3.

Although very small reductions in PM<sub>2.5</sub> concentrations occur in some areas that exhibited high concentrations in the No Action Alternative (e.g., Southern California), other areas with high concentrations in the No Action Alternative show increases in PM<sub>2.5</sub> concentrations (e.g., around Louisiana). The response of the model to changes in emissions varies from region to region and is influenced by the amount and spatial distribution of the emission changes and the relative changes in emissions for the different pollutant species.

#### **D.3.3.4 PM<sub>2.5</sub> Maximum Impacts**

Figure D-25 displays the future-year simulated 98th percentile (i.e., eighth highest) 24-hour average PM<sub>2.5</sub> concentrations (µg/m<sup>3</sup>) under the No Action Alternative. While annual average PM<sub>2.5</sub> concentrations indicate levels of PM<sub>2.5</sub> relevant to assess chronic exposure, 98th percentile PM<sub>2.5</sub> concentrations, calculated according to the current 24-hour average NAAQS, are important to assess acute exposure to fine particulate matter. The spatial pattern of 98th percentile 24-hour average PM<sub>2.5</sub> concentrations is similar to that observed for annual average PM<sub>2.5</sub> in Figure D-23, which indicates areas of higher PM<sub>2.5</sub> in the eastern half of the United States and a few isolated areas in the western states. Only a few isolated locations show 98th percentile PM<sub>2.5</sub> concentrations above the current 24-hour average NAAQS of 35 µg/m<sup>3</sup>. The minimum and maximum values for any location in the domain are provided on each figure, along with their grid cell locations (x, y coordinates are provided relative to the modeling domain shown in Figure D-1).

Figure D-25. Simulated 98th Percentile 24-hour average PM2.5 Concentration ( $\mu\text{g}/\text{m}^3$ ) for 2035: No Action Alternative, Direct and Indirect Impacts

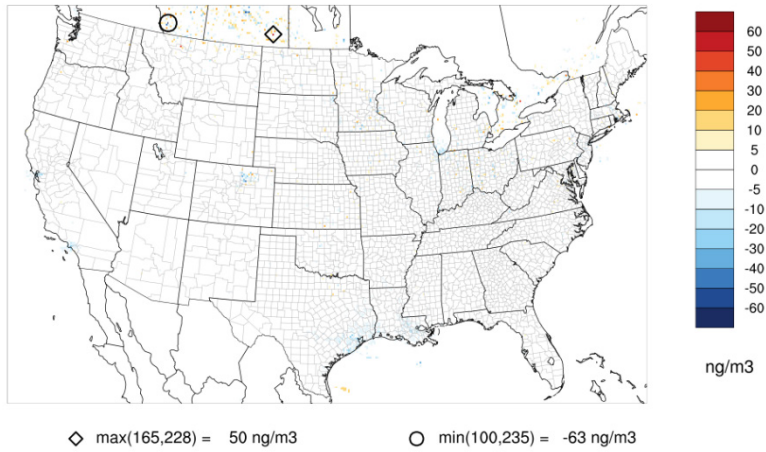


PM2.5 = particulate matter 2.5 microns or less in diameter;  $\mu\text{g}/\text{m}^3$  = micrograms per cubic meter

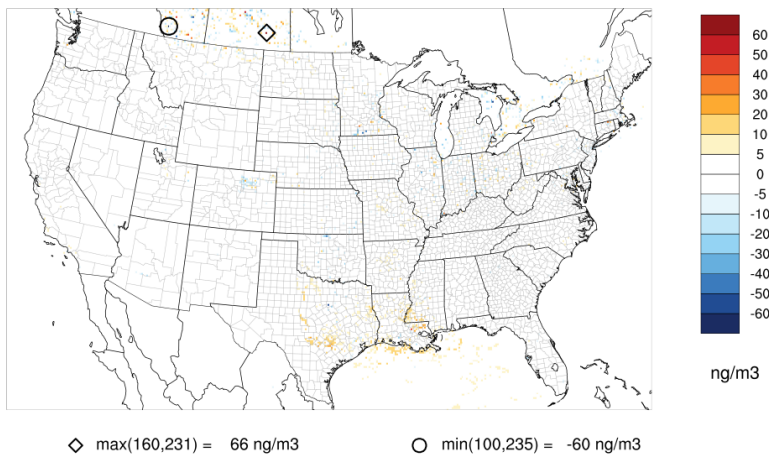
To enable the reader to see the very small spatial differences between the alternatives and the No Action Alternative, Figure D-26 displays the maximum difference in simulated 24-hour average PM2.5 concentration ( $\text{ng}/\text{m}^3$ ) for each action alternative compared to the No Action Alternative (i.e., Alternative 1 minus the No Action Alternative, Alternative 2 minus the No Action Alternative, and Alternative 3 minus the No Action Alternative). These figures reveal that the impacts on the eight highest daily average PM2.5 concentrations are consistent with the impacts on the annual average concentrations. Generally, the spatial patterns between Figures D-24 and D-26 are similar. Additionally, impacts on 24-hour average PM2.5 concentrations can vary by season, such that PM2.5 concentrations may increase during certain times of the year for areas showing decreases in PM2.5 concentrations on Figure D-26, and vice versa. Furthermore, maximum changes in 24-hour average PM2.5 concentrations are significantly greater in magnitude than changes in annual average PM2.5 concentrations in all alternatives. For example, the largest decrease in 24-hour average PM2.5 concentration in any given grid cell for any of the action alternatives compared with the No Action Alternative is 146  $\text{ng}/\text{m}^3$  (0.146  $\mu\text{g}/\text{m}^3$ ), whereas the maximum increase is 96  $\text{ng}/\text{m}^3$  (0.096  $\mu\text{g}/\text{m}^3$ ). As observed previously for annual average PM2.5, the magnitude and spatial extent of the maximum differences in 24-hour average PM2.5 concentrations between each action alternative and the No Action Alternative tend to decrease from Alternative 3 to Alternative 1, with Alternative 1 showing the smallest maximum increase in PM2.5 concentrations of any action alternative. The largest maximum increase in PM2.5 concentrations occurs in southwestern Texas and Louisiana under Alternatives 2 and 3, while the largest maximum decrease typically occurs in the same region under Alternative 1.

Figure D-26. Maximum Difference in Simulated 24-hour Average PM2.5 Concentration (ng/m<sup>3</sup>) for 2035: Direct and Indirect Impacts under Action Alternatives minus the No Action Alternative

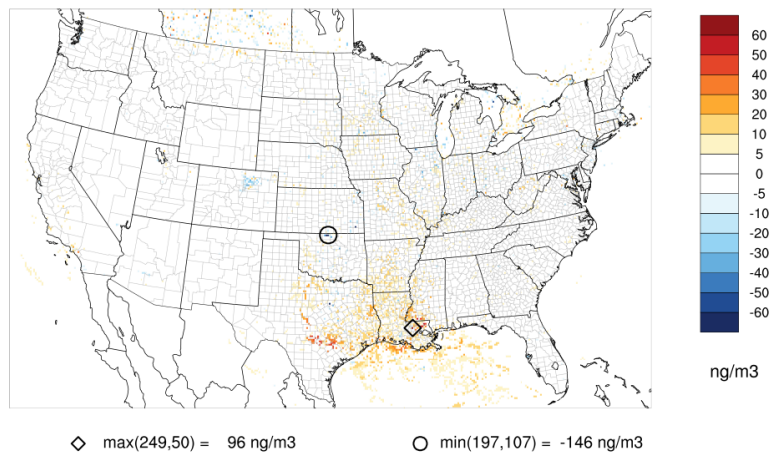
(a) Alternative 1



(b) Alternative 2



(c) Alternative 3



PM2.5 = particulate matter 2.5 microns or less in diameter; ng/m<sup>3</sup> = nanograms per cubic meter

### **D.3.3.5      *Attributes, Limitations, and Uncertainties***

The CMAQ air quality modeling system provides a reliable platform for evaluating the expected responses to changes in precursor emissions at the national and regional scales. The detailed, quantitative modeling results provide an excellent basis for comparing the effects of the action alternatives and provide the requisite input for the health effects modeling.

CMAQ can account for differences in emissions and other factors that affect air quality and the resulting health impacts at any given location, such as meteorology, topography, land-use, and atmospheric chemistry processes. Accordingly, CMAQ can simulate regional differences in the response of the model to the emission changes. This simulation is important because different regions could experience either a net increase or a net decrease in emissions, depending on the relative magnitudes of the changes in emissions from increased fuel economy, increased vehicle use, and decreased fuel production and distribution. Regional differences in the response of the model to changes in emissions are also important in the calculation of health effects because the air quality changes are matched to gridded population estimates.

All air quality modeling exercises are affected by inherent uncertainties that derive from model formulation (including numerical approximations and the parameterization of physical and chemical processes) and inaccuracies in the input fields (including the meteorological inputs and emissions inventory estimates). The following paragraphs discuss a number of key limitations and uncertainties, both general and specific to this analysis.

- **Grid resolution.** CMAQ uses a 12-kilometer horizontal grid resolution. This grid resolution is commonly used for national modeling analyses and is coarser than some fine-scale modeling grids that are used for regional evaluations of ozone and PM<sub>2.5</sub>. The 12-kilometer grid resolution might not be sufficiently detailed to resolve certain processes (e.g., emissions, meteorology, atmospheric chemistry) in portions of the modeling domain, and this could introduce biases or uncertainties into the simulated concentration fields. Use of the 12-kilometer grid resolution limits the response of the model to small changes in precursor emissions and spatial variability at a smaller scale cannot be characterized. This intermediate grid size is more refined than past analyses; however, uncertainty in health effect predictions still remains.
- **Reaction pathways.** Pollutants such as ozone and PM<sub>2.5</sub> are secondary pollutants formed through atmospheric chemical processes. There are many different reaction pathways and there are uncertainties associated with each pathway as represented in the CMAQ model.
- **Emission rates.** The emissions estimates for on-road motor vehicles and the affected upstream emissions sources used in this analysis are total emissions for all states and Washington, D.C. These were spatially allocated to each state and county using vehicle miles traveled and other activity information. These emissions assume that emission rates for vehicles are the same across the United States. As a result, the modeling does not account for factors that affect emission rates regionally, such as ambient temperature, localized differences in vehicle fleet age, and differences in fuels (especially regarding ethanol fraction).
- **Model biases.** Many of the national-scale databases used for this application, including the meteorological and other input databases (for 2016) and the projected baseline criteria pollutant emissions data (for 2032 and 2035), were originally prepared by EPA for use in modeling exercises to support national rulemaking. However, as with any modeling database, it is expected that there are errors and uncertainties in the inputs that contribute to potential biases in the CMAQ results. This is especially true for the future-year modeling. For example, the meteorological conditions for 2016 might be representative of current conditions but would not reflect any effects of potential climate

change in 2035. Similarly, the future-year emissions are based on future estimates of population and economic and industrial activity and growth, and contain uncertainties due to potential unknown social, political, and/or economic factors that could affect growth and activity and resulting future emissions.

## **D.4 Health Effects and Benefits Modeling**

### **D.4.1 Overview of the BenMAP-CE Modeling System**

BenMAP-CE is an EPA-developed computer program that uses interpolation functions, population projections, health impact functions, and valuation functions to translate simulated changes in air pollution concentration into changes in health-related incidences and can also be used to monetize health-related benefits. BenMAP-CE is primarily intended as a tool for estimating the human health effects associated with changes in ambient air pollution. EPA originally developed this tool to analyze national-scale air quality regulations. The health benefits derived using BenMAP-CE are intended to inform policymakers by enabling the comparison of the benefits of various regulatory measures.

BenMAP-CE relies on the input of air quality information that can be used to calculate the change in ambient air pollution associated with a change in emissions. Typically, the results from two air quality modeling simulations (with different emission inputs) are used. In some cases, measured ambient air quality data can also be used.

BenMAP-CE calculates health effects based on expected relationships between the change in concentration and certain health effects (also known as health endpoints) using concentration-response functions from epidemiology studies. The response functions are used together with population concentration data to estimate health effects. For a model-based application, health effects are calculated grid cell by grid cell and then summed to obtain regional- and national-scale estimates. In its most basic form, the health effect for a given health endpoint is a function of the change in air concentration, concentration-response estimates, and population. Primary health endpoints include premature mortality, heart attacks, and chronic respiratory illnesses.

NHTSA used the most current version available at the time of analysis, BenMAP-CE version 1.5.8.1, in April 2021). Configuration files specifying the health impact functions and population databases are available as part of the BenMAP-CE modeling system.

### **D.4.2 BenMAP-CE Application Procedures**

NHTSA reformatted the CMAQ model output files for input to the BenMAP-CE tool and applied BenMAP-CE separately for ozone and PM<sub>2.5</sub>. Both ozone and PM<sub>2.5</sub> were run for a 1-year period. The area covered by the BenMAP-CE analysis is the contiguous United States and Washington, D.C. BenMAP-CE includes population data and projections at the census-tract level and algorithms for characterizing demographic changes (age distribution) over time. For this analysis, NHTSA used population estimates for 2035. This is consistent with the light-duty vehicle emissions data projections. Health impacts from changes in emissions of air toxics are not estimated by BenMAP-CE.

BenMAP-CE calculates the changes in health effects and monetized health-related benefits by comparing the results of two simulations. For this study, NHTSA used BenMAP-CE to calculate the

change in health effects for each action alternative compared to the No Action Alternative.<sup>7</sup> This study resulted in three BenMAP-CE applications using the CMAQ results for each pair of action alternative and No Action Alternative:

- Alternative 1 and the No Action Alternative
- Alternative 2 and the No Action Alternative
- Alternative 3 and the No Action Alternative

Figures D-20, D-22, D-24, and D-26 show difference plots of the CMAQ-derived ozone and PM2.5 concentrations for each of these pairs of simulations, and the corresponding BenMAP-CE results reflect those differences.

For each pollutant and simulation pair, the application of BenMAP-CE involved four steps:

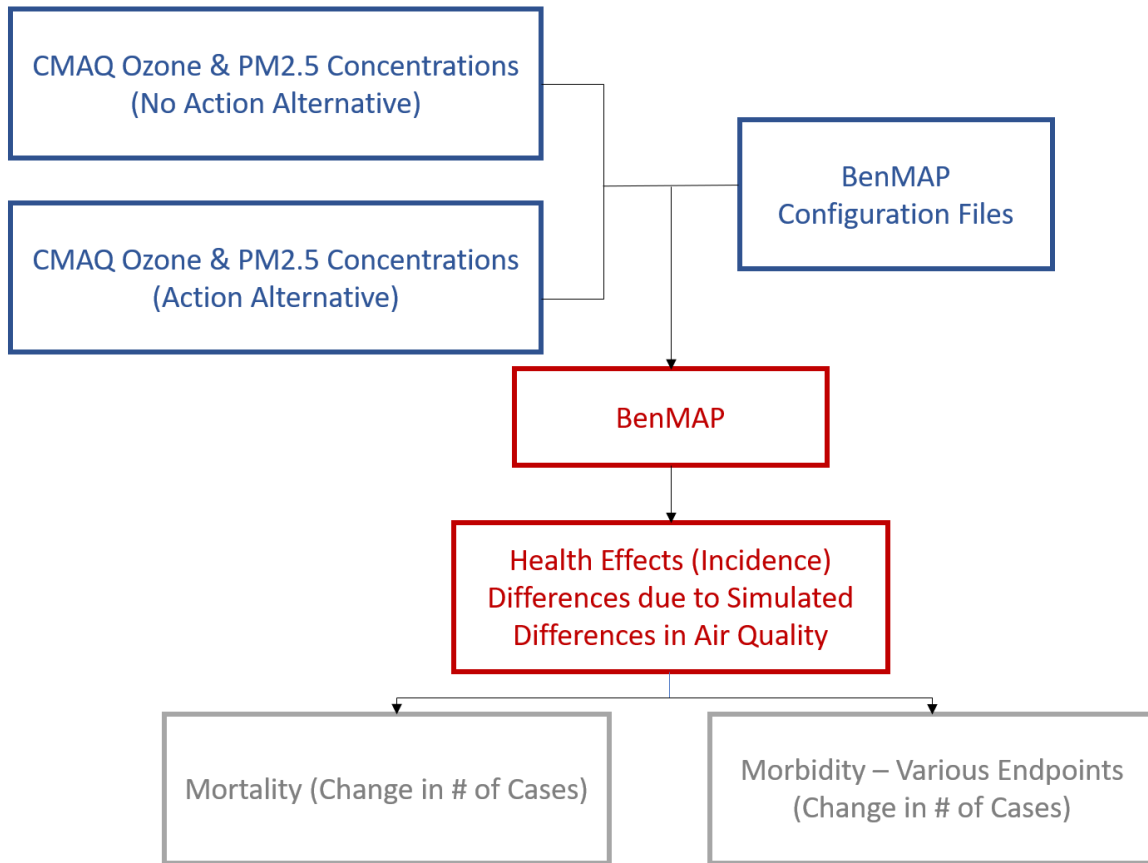
1. Incorporate the CMAQ modeling results into the air quality grid files required by BenMAP-CE (air quality grid creation). In this step, NHTSA used the CMAQ model results directly.
2. Calculate the change in the incidence of adverse health effects based on the differences in the CMAQ-derived ozone and PM2.5 concentrations between the two simulations.
3. Aggregate the incidence results.
4. Prepare tabular and graphical summaries; ensure the quality of and analyze the results.

Figure D-27 presents a diagram of the BenMAP-CE health effects analysis procedure using the CMAQ results.

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<sup>7</sup> NHTSA calculated the monetized health-related benefits using similar data and methodology, and those results are presented in Section III.F.4. of the preamble to the final rule and Chapter 6.6.4 of the Final Regulatory Impact Analysis.

Figure D-27. Diagram Illustrating Use of BenMAP-CE for Health Effects and Benefits Analysis



BenMAP = Environmental Benefits Mapping and Analysis Program—Community Edition

**D.4.2.1 Health Impact Functions**

NHTSA used BenMAP-CE to calculate reductions in both mortality and a range of non-fatal health effects (morbidity) based on epidemiological studies that spanned cities across the U.S. and Canadian populations.

BenMAP-CE can estimate changes in a wide range of health impact endpoints associated with changes in ozone and PM2.5 exposure. The endpoints are grouped broadly as mortality and morbidity. Mortality endpoints include changes in “all-cause” mortality, and mortality due to specific causes, such as cardiopulmonary disease. Morbidity endpoints include specific illnesses and symptoms (e.g., asthma exacerbations), events requiring medical care (i.e., emergency room visits and hospital admissions), and adverse effects that involve lost school days or restricted-activity days.

EPA has evaluated the literature related to the adverse effects of ozone and particulate matter exposures and identified a set of endpoints for which the associations are considered to be well established and for which reliable exposure-response relationships have been developed. Tables D-12 and D-13 list the health endpoints used in this analysis for ozone and PM2.5, respectively. The endpoints include changes in mortality for both adults and infants, and a range of morbidity endpoints related to respiratory diseases and symptoms, hospital admissions, and lost school days or restricted-activity days. The tables provide the age range for each endpoint. The results options for this study include the mean value, incremental percentile values, and standard deviation.

Pooled estimates for PM2.5 include acute myocardial infarction (i.e., heart attack). In the health incidence calculation step, no threshold value was specified, consistent with EPA guidance. The optional use of a threshold value can be used to examine the sensitivity of particulate matter-related health impact estimates to different assumed thresholds. The results options for this study include the mean value, incremental percentile values, and standard deviation.

**Table D-12. Health Impact Functions Used to Estimate Ozone-Related Health Effects**

Endpoint	Author/Study/Location (If Applicable)	Age Range	Notes
Mortality, all cause	Medina-Ramon (2008); Nationwide	0–99	a,b
Mortality, all cause	Zanobetti and Schwartz (2008); 48 cities	0–99	e
Emergency room visits, asthma	Mar and Koenig (2009); Seattle, WA	0–17	f
Emergency room visits, respiratory	Barry et al. (2018); Five US cities	0–99	a, o
Hospital admissions, all respiratory	Katsouyanni et. al. (2009); 14 U.S. cities	65–99	a,k,l
Respiratory, incident	Garcia et al. (2019)	9–18	a
Asthma exacerbation, one or more symptoms	Lewis et al. (2013); Detroit, MI	5–12	a
School loss days, all	Gilliland et al. (2001); Southern CA	5–17	a,m

Notes:

- a. Metric is daily maximum 8-hour ozone.
- b. Metric is 8 hour daily mean ozone; warm season; May through September
- e. Metric is 8-hour daily mean ozone; 0–3 day lag; June through August, 1989 through 2000
- f. Child model; metric is daily maximum 8-hour ozone; 3-day lag; May through September
- i. Metric is daily maximum 8-hour ozone; 2-day lag (largest)
- k. Metric is daily maximum 8-hour ozone; Summer, 1985 through 1994 (penalized splines)
- l. Metric is daily maximum 8-hour ozone; Summer, 1985 through 1994 (natural splines)
- m. Metric is daily maximum 8-hour ozone; all year (8-hour max from 8-hour mean)
- n. Metric is daily maximum 8-hour ozone; all year (8-hour max from 1-hour max)
- o. Metric is daily maximum 8-hour ozone; all year, 3-day moving average

**Table D-13. Health Impact Functions Used to Estimate PM2.5-Related Health Effects**

Endpoint	Author/Study/Location (If Applicable)	Age Range	Notes
Mortality, all cause	Krewski et al. (2009); 116 U.S. cities	30–99	a
Mortality, all cause	Woodruff et al. (1997); 86 cities	0–0	a
Mortality, all cause	Pope et al. (2015); counties in all 50 states	30–99	a
Acute myocardial infarction, non-fatal	Zanobetti and Schwartz (2009); 26 U.S. communities	18–99	b
Emergency room visits, respiratory	Zanobetti et al. (2009); 26 US Cities	65–99	b
Emergency room visits, cardiovascular	Ostro et al, (2016); 8 California Cities	0–99	b
Hospital admissions, neurological (Parkinson’s)	Kioumourtzoglou et al. (2016); 50 Northeastern US cities	65–99	a
Hospital admissions, neurological (Alzheimer’s)	Kioumourtzoglou et al. (2016); 50 Northeastern US cities	65–99	a
Respiratory incidence, lung cancer	Gharibvand et al. (2016); Nationwide	30–99	a
Hospital admissions, cardiovascular	Bell et al (2015); 213 US counties	65–99	b
Hospital admissions, respiratory	Parker et al. (2009); Nationwide	0–99	a



Endpoint	Author/Study/Location (If Applicable)	Age Range	Notes
Minor restricted activity day, acute respiratory symptoms	Ostro and Rothschild (1989); Nationwide	18–64	b
Work loss days	Ostro (1987); Nationwide	18–64	b

Notes:

a. 24-hour mean/quarterly mean

b. 24-hour mean

PM2.5 = particulate matter 2.5 microns or less in diameter

#### D.4.2.2 Post-Processing and Quality Assurance Procedures

NHTSA checked the results for each simulation pair for consistency with emissions and the CMAQ modeling results. NHTSA then prepared tabular and graphical summaries of the results, as presented in the following sections, and systematically checked the contents of the tables and charts by comparing the values with the raw BenMAP-CE report files.

#### D.4.3 BenMAP-CE Results

NHTSA used BenMAP-CE to estimate the reduction in the incidence of various health-related endpoints. The remainder of this section provides the BenMAP-derived mean values for health incidence results. All of the health incidence results are rounded to two significant figures.

##### D.4.3.1 Impacts

Tables D-3 and D-4 list the emissions associated with the action alternatives for the impact analysis. This section presents the health impacts for the emission changes associated with the alternatives.

##### Ozone

Table D-14 lists BenMAP-CE results for ozone mortality (reduction in number of cases) for the three action alternatives for the impact analysis. The reductions in premature mortality incidence are for the entire contiguous United States and Washington, D.C. There are no results for the No Action Alternative because this is the baseline to which the CMAQ results under the action alternatives were compared within the BenMAP-CE tool (see the list of simulation pairs in Section D.4.2, *BenMAP-CE Application Procedures*).

**Table D-14. BenMAP-CE Aggregated Incidence Results for Ozone-Related Mortality: Estimated Nationwide Reduction in Premature Mortality**

Epidemiology Study	Alt. 1	Alt. 2	Alt. 3
Mortality, all cause (Medina-Ramon)	0.72	1.2	1.5
Mortality, all cause (Zanobetti and Schwartz)	0.34	0.55	0.69

BenMAP = Environmental Benefits Mapping and Analysis Program—Community Edition

The results vary by epidemiology study and by alternative. Overall, these reductions are small. Nationwide, some locations experience increases in premature mortality, and some locations have reductions but with a slight net overall reduction nationwide. Alternative 3 is associated with the most reductions in mortality incidence for ozone, while Alternative 1 is associated with the fewest reductions.

Table D-15 lists the BenMAP-CE results for other ozone-related health effects (reduction in number of cases) and associated endpoints (morbidity) analysis. In some cases, the studies cover different age groups, as indicated. The reductions in incidence for all endpoints are for the entire contiguous United States and Washington, D.C., and overall show very small changes. For all endpoints considered here, the greatest reductions are associated with Alternative 2, while Alternatives 1 and 3 are similar, having fewer reductions for all endpoints than Alternative 2.

**Table D-15. BenMAP-CE Aggregated Incidence Results for Ozone-Related Morbidity: Estimated Nationwide Reduction in Various Morbidity Endpoints**

<b>Epidemiology Study</b>	<b>Alt. 1</b>	<b>Alt. 2</b>	<b>Alt. 3</b>
Emergency room visits, asthma	8.9	12	11
Emergency room visits, respiratory	9.4	12	9.0
Hospital admissions, all respiratory	0.44	0.54	0.40
Asthma incidence, respiratory	6.4	8.1	6.7
Asthma exacerbation, one or more symptoms	5,300	6,700	5,500
School loss days (age 5–17)	1,900	2,400	2,000

BenMAP = Environmental Benefits Mapping and Analysis Program—Community Edition

**PM2.5**

Table D-16 lists the BenMAP-CE results for PM2.5 mortality (reduction in number of cases) under the action alternatives. The mortality estimates are based on both epidemiology literature based on estimates of the increment in mortality that would be associated with increments of PM2.5 exposures, based on their understanding of the epidemiological literature taken as a whole.

The results vary by study, due to the use of different study populations and exposure-response relationships, and by alternative. Overall, these reductions are small as some locations experience increases in premature mortality (negative values) and some locations have reductions (positive values), but with a slight net overall reduction nationwide for Alternative 1. Alternative 3 generally shows increases in mortality. The results for Alternative 2 lie between Alternative 1 and Alternative 3.

**Table D-16. BenMAP-CE Aggregated/Pooled Incidence Results for PM2.5-Related Mortality: Estimated Nationwide Reduction in Premature Mortality**

<b>Epidemiology Literature</b>	<b>Alt. 1</b>	<b>Alt. 2</b>	<b>Alt. 3</b>
Mortality, all cause (Krewski et al.); 116 U.S. cities	13	-0.4	-7.1
Mortality, all cause (Woodruff et al.); 86 cities	0.091	-0.004	-0.056
Mortality, all cause (Pope et al.); counties in all 50 states	15	-0.4	-8.2

BenMAP = Environmental Benefits Mapping and Analysis Program—Community Edition; PM2.5 = particulate matter 2.5 microns or less in diameter

Table D-17 lists BenMAP-CE results for other PM2.5-related health effects (reduction in number of cases) and associated endpoints (morbidity) under the action alternatives. The morbidity estimates are based on both epidemiology literature based on estimates of the increment in morbidity that would be associated with increments of PM2.5 exposures, based on their understanding of the epidemiological literature taken as a whole

The results vary by study, due to the use of different study populations and exposure-response relationships, and by alternative. Overall, these reductions are small as some locations experience increases in morbidity (negative values) and some locations have reductions (positive values), but with a slight net overall reduction nationwide for Alternative 1 and with Alternative 3 generally showing an increase in morbidity.

The general increase in adverse PM2.5 health outcomes from Alternative 1 to Alternative 3 is likely driven by upstream emissions, which are often concentrated near oil and gas refinery operations and which have the largest primary PM2.5 emission reduction occurring under Alternative 1 (less so under Alternatives 2 and 3). This is driven by additional refining needed for increased VMT. Also, increases in upstream SO<sub>x</sub> and NO<sub>x</sub> emissions under Alternatives 2 and 3 likely contribute to increased PM2.5 mortality and morbidity.

**Table D-17. BenMAP-CE Aggregated/Pooled Incidence Results for PM2.5-Related Morbidity: Estimated Nationwide Reduction in Various Morbidity Endpoints**

Epidemiology Study	Alt. 1	Alt. 2	Alt. 3
Acute myocardial infarction, non-fatal (18–99)	1.2	-0.05	-0.72
Emergency room visits, respiratory (65–99)	2.8	-0.16	-1.7
Emergency room visits, cardiovascular (0–99)	3.8	-0.10	-2.0
Hospital admissions, neurological (Parkinson’s) and (Alzheimer’s) (65–99)	3.4	-0.18	-2.1
Incidence, respiratory, incidence lung cancer (30–99)	210	-0.70	-100
Hospital admissions, cardiovascular (65–99)	1.8	-0.03	-0.93
Hospital admission, incidence respiratory (0–99)	1.3	0.003	-0.61
Minor restricted activity days (18–64)	9,100	235	-3,700
Work loss days (18–64)	1,500	41	-630

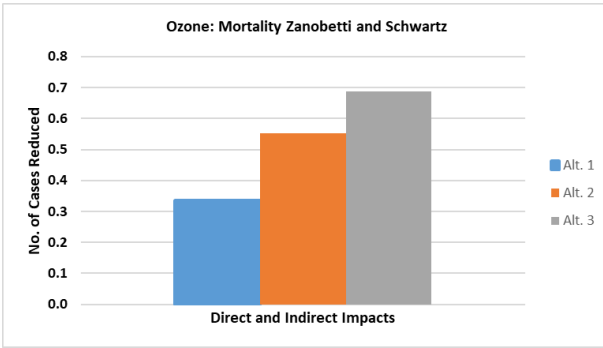
PM2.5 = particulate matter 2.5 microns or less in diameter

**D.4.3.2 Summary of BenMAP-CE Results**

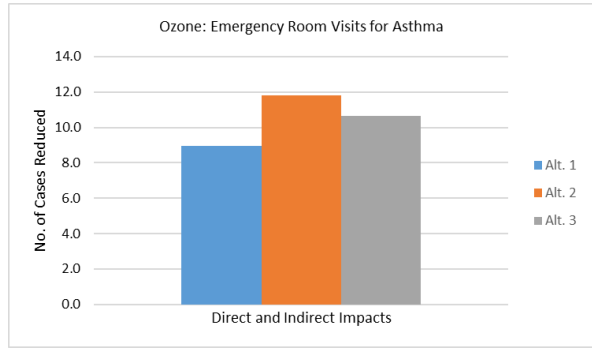
The goal for this application was to compare the health effects across the range of alternatives. Figures D-28 and D-29 graphically display the nationwide reduction in the number of cases associated with selected health endpoints for ozone and PM2.5. For ozone (Figure D-28), the endpoints are mortality (Zanobetti and Schwartz 2008), emergency room visits for asthma hospital (Barry et al. 2018), admissions for respiratory symptoms (Katsouyani et al. 2009), and school loss days. For PM2.5 (Figure D-29), the endpoints are mortality (Krewski et al. 2009), emergency room visits for respiratory (Zanobetti et al. 2009), hospital admissions, cardiovascular (Bell et al. 2015) and minor restricted-activity days. The scales are different for each plot. Negative values indicate an increase in the number of health effect cases.

Figure D-28. BenMAP-Derived Changes in Selected Health Outcomes: Ozone (Reduction in the Number of Cases)

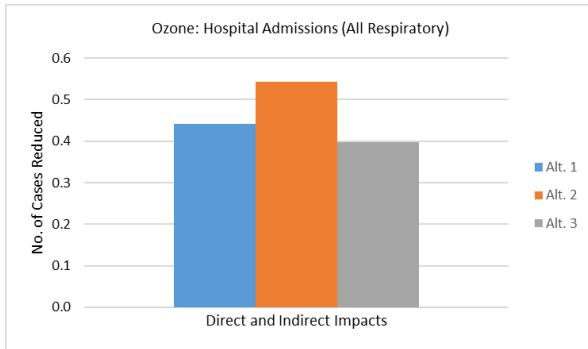
(a) Mortality



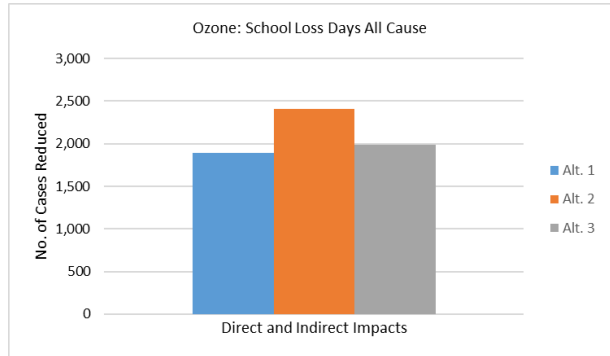
(b) Emergency Room Visits for Asthma



(c) Hospital Admissions for Respiratory Symptoms



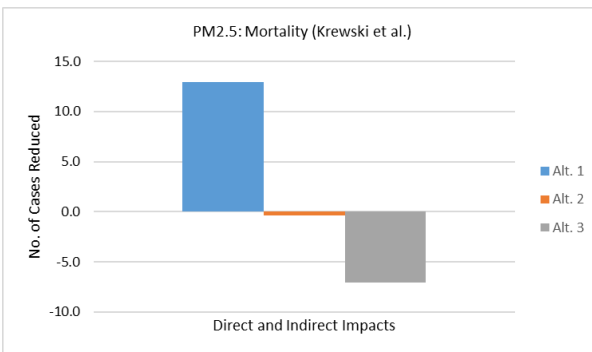
(d) Minor Restricted-Activity Days



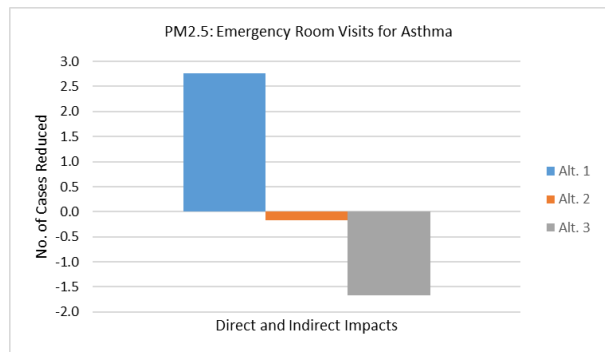
BenMAP = Environmental Benefits Mapping and Analysis Program

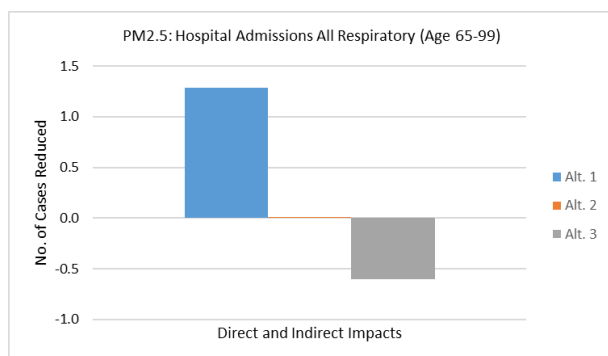
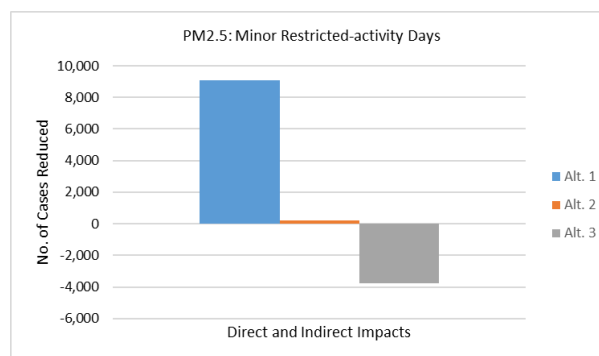
Figure D-29. BenMAP-Derived Changes in Selected Health Outcomes: PM2.5 (Positive values are the number of cases reduced, negative values are the number of cases increased)

(a) Mortality



(b) Emergency Room Visits for Respiratory



**(c) Hospital Admissions for Cardiovascular****(d) Minor Restricted-Activity Days**

BenMAP = Environmental Benefits Mapping and Analysis Program; PM2.5 = particulate matter 2.5 microns or less in diameter

In summary:

- The relative changes in health effects incidences are consistent with the changes in emissions for the action alternatives. Because they are driven by the CMAQ modeling results, the BenMAP-CE results are also affected by the emissions changes, their spatial distributions in relation to population, and the complex (and often non-linear) chemical reactions in the atmosphere throughout each of the different regions during the course of the annual simulation period.
- **For ozone:** Alternative 3 showed the most reductions in the number of health effects cases for mortality, while Alternative 2 showed the most reductions in the number of health effects cases for morbidity. Alternative 1 generally showed the fewest reductions in the number of health effects cases.
- **PM2.5:** Alternative 1 is associated with the most reductions in the number of health effects cases. Alternative 3 is associated with the largest number of increases in health effects cases. Alternative 2 falls between Alternatives 1 and 3.

#### **D.4.3.3 Attributes, Limitations, and Uncertainties**

The BenMAP-CE tool incorporates a wide variety of studies that can be used to quantify health effects resulting from reductions in air pollutant concentrations. The epidemiological studies address a variety of different health endpoints, and, in some cases, multiple studies (involving different populations or concentration-response functions) allow some comparison. BenMAP-CE incorporates advanced statistical methods for aggregating and weighting the results to obtain both mean values and information about the likelihood (probability) that the value will be within a given range. A primary advantage of BenMAP-CE is that it can incorporate the change in air quality directly from air quality model output files. Therefore, BenMAP-CE accounts for spatial and temporal differences in the changes in air quality and relates these to population. For this analysis, selection of the health effects studies and valuation methods were based on the BenMAP-CE (configuration and aggregation, pooling and valuation) input files (which reference the studies and methods EPA considers the most relevant and applicable to the U.S. population as a whole).

Nevertheless, there are uncertainties associated with the estimation of changes in health effects associated with changes in ozone and PM2.5 air quality. For the health incidence calculations, BenMAP-CE includes an option to generate an average incidence estimate and range of results that assume variability in the inputs to the health impact functions. Variability is incorporated into most of the BenMAP-CE exposure-response algorithms by prescribing a dose-response parameter that assumes a

Gaussian (bell-shaped) distribution about the mean value. In calculating the health effects, BenMAP-CE samples this distribution to develop a probability distribution of effect. The result is expressed as the mean value of the distribution.

Regarding the uncertainty with mortality risks, higher confidence is found for the magnitude of the risks for simulated PM<sub>2.5</sub> concentrations that coincide with the bulk of the observed PM<sub>2.5</sub> concentrations in epidemiological studies that are used to estimate the benefits. Less confidence is found in the risk for simulated PM<sub>2.5</sub> concentrations that fall below the bulk of the observed PM<sub>2.5</sub> concentration data used in these studies. There are uncertainties inherent in identifying any point at which the confidence in reported associations decreases appreciably, and the scientific evidence provides no clear dividing line.

One approach that has been used to illustrate the relative confidence is the concentration benchmark approach (also referred to as the lowest measured level [LML] analysis), which has been used in several EPA regulatory impact analyses (EPA 2018, 2019b) and EPA's Policy Assessment for Particulate Matter (EPA 2011) by reporting the estimated PM<sub>2.5</sub>-related premature deaths according to alternative concentration cutpoints.

LML analysis allows a reader to determine the portion of population exposed to annual mean PM<sub>2.5</sub> levels at or above different concentrations, which provides insight into the level of uncertainty in the estimated PM<sub>2.5</sub> mortality benefits. These concentration benchmarks should not be viewed as concentration thresholds below which NHTSA and EPA would not quantify health benefits of air quality improvements.<sup>8</sup> Rather, the benefit estimates are appropriate estimates because they reflect the full range of air quality concentrations associated with the emissions changes being evaluated. The Integrated Science Assessment for Particulate Matter (EPA 2009) concluded that the scientific evidence is sufficient to determine that there is a causal relationship between long-term PM<sub>2.5</sub> exposures and mortality, and that overall, the studies support the use of a no-threshold log-linear model to estimate mortality attributed to long-term PM<sub>2.5</sub> exposure.

Modeling results from each scenario are stratified by estimated PM<sub>2.5</sub> premature deaths according to the concentration at which they occurred: below the LML, between the LML and the NAAQS, and above the NAAQS for each of the three alternatives (Table D-18). The LML for Krewski et al. (2009) is 5.8 µg/m<sup>3</sup>. Table D-18 shows that a small percentage of PM<sub>2.5</sub>-related premature deaths occurs above the NAAQS. These results are sensitive to the annual mean PM<sub>2.5</sub> concentration predicted by the air quality model in each 12-by-12-kilometer grid cell. The results should be viewed in the context of the air quality modeling technique used to estimate PM<sub>2.5</sub> concentrations. In general, higher confidence is placed in the ability of CMAQ to estimate changes in annual mean PM<sub>2.5</sub> concentrations than in the ability to estimate absolute PM<sub>2.5</sub> concentrations.

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<sup>8</sup> For a summary of the scientific review statements regarding the lack of a threshold in the PM<sub>2.5</sub>-mortality relationship, see the technical support document *Summary of Expert Opinions on the Existence of a Threshold in the Concentration-Response Function for PM<sub>2.5</sub>-related Mortality* (EPA 2010).

**Table D-18. Estimated Percent of Changes in PM<sub>2.5</sub>-Related Premature Deaths above and below PM<sub>2.5</sub> Concentration Cutpoints (positive are fewer deaths, negative values are increased deaths)**

Alternative	Epidemiological Study	Change in PM <sub>2.5</sub> -Related Premature Deaths Compared to No Action Alternative, Reported by Cutpoint			
		Total Mortality	Above NAAQS	Below NAAQS and Above LML <sup>a</sup>	Below LML <sup>a</sup>
Alt. 1	Krewski	13	0.78	10.5	1.7
			6%	81%	13%
Alt. 2	Krewski	-0.40	0.29	-0.02	-0.63
			10%	69%	21%
Alt. 3	Krewski	-7.1	0.06	-5.1	-2.1
			<1%	71%	29%

Notes:

<sup>a</sup> The LML of the Krewski study is 5.8 µg/m<sup>3</sup>.

Values less than 0.05 have been rounded to zero.

Sum of individual values may not equal total due to rounding.

LML = lowest measured level; NAAQS = National Ambient Air Quality Standards; PM<sub>2.5</sub> = particulate matter 2.5 microns or less in diameter

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