To: Vinay Nagabhushana, NHTSA, Contracting Officer Representative

From: ICF, Air Quality Team

Date: 28 August 2023

Re: Draft EIS – Air Quality ICF Generated Data Administrative Record (AR) Files

Comments: This memo is intended to explain the use of the air quality team's ICF generated data files included as part of the Final SEIS AR.

<u>Final Data Used in DEIS > MS Excel Files</u>:

The CAFE, HDPUV, and CAFE + HDPUV directories each contain their own version of the following files.

1. **0_AltNaming*.xlsx**: File containing the names of the action alternatives.
2. **1_CollectEmiss_CAPs-Tox*.xlsm**: Macro-enabled file that reads in the DEIS emission values (from the CAFE Model outputs) from across different files, collecting them in one place.
3. **2_NationalEmiss_PlusBenefits*.xlsm**: Macro-enabled file that reads in the collected emission values from Excel file #2 above and creates formatted tables of the values and differences between alternatives.
4. **2b_HealthIncidents*.xlsm:** File that creates a formatted table of the differences between alternatives in DEIS health incidents estimates. The macro to read in the incidents from files was not used here.
5. **3_NAAQSEmiss_Downstream*.xlsm**: Macro-enabled file that reads in the collected downstream (tailpipe) emissions values from Excel file #2 above and estimates the allocation of those emissions to each National Ambient Air Quality Standards (NAAQS) non-attainment or maintenance area. Uses NAAQS data, county population data, and county vehicle miles traveled (VMT) data from the sources listed within the file's CONTROL sheet, to estimate those allocations.
6. **3_NAAQSEmiss_Upstream*.xlsm**: Macro-enabled file that reads in the collected upstream emissions values from Excel file #2 above and estimates the allocation of those emissions to each NAAQS non-attainment or maintenance area. Uses NAAQS data, county population data, and county-, pollutant-, and sector-level oil and gas emissions data from the sources listed within the file's CONTROL sheet, to estimate those allocations.
7. **4_NAAQSAreas_MaxChanges_MakeApplTbls*.xlsm**: Macro-enabled file that reads in the NAAQS-allocated upstream and downstream emissions estimated in Excel files #5 and 6 above and identifies where emissions are estimated to increase and decrease the most. It also partially facilitates the creation of formatted tables of these emissions by NAAQS area.
8. **UpstreamEmissionsBySector_2022-2023*.xlsm**: Macro-enabled file that contains information on NAAQS non-attainment and maintenance areas (estimated populations within) and county-level upstream emission estimates, from the sources listed within the file's Main sheet, which

then estimates the allocation of upstream emissions to NAAQS areas. The results in this file are used in Excel file #6 above.

The following files were used throughout the DEIS air quality analysis.

9. **CAFE_results_02012023_Chris Edits.xlsx**: File containing estimates of the population count within each NAAQS area. These are used in Excel file #5 above.
10. **CAFE_Results__Dissolved_02012023_Chris Edits.xlsx**: File containing estimates of the population count in each intersection of county and NAAQS area. These are used in Excel file #5 above.

Final Data Used in DEIS > MS Access Files:

11. **2022 2023 LDV 2b3 - 2032 OilGas Upstream Emiss From EPA Platform 2016v2.accdb**: File containing data from the EPA 2016 v2 Emissions Modeling Platform (specifically the 2032fj datasets), and calculations to estimate upstream oil and gas emissions by sector. These are used in Excel file #1 and #8 above.
12. **ICF_Compile LDV 2b3 VMTs_20221208.accdb**: File containing data from the EPA 2016 v2 Emissions Modeling Platform (specifically the 2032fj datasets), and calculations to estimate national VMT fractions by county. These are used in Excel file #5 above.

Final Data Used in DEIS > Population Files:

13. Geospatial shapefiles of population estimates at the level of block groups. Used to estimate allocations of national emissions (from the CAFE Model) to NAAQS non-attainment and maintenance areas.

Final Data Used in DEIS > Technical Direction Emails:

14. **2032 projection emission files for NHTSA CAFE standards EIS.msg** (4 messages): Email exchanges with EPA on the most appropriate oil and gas sectors to focus on in Access file #11 above.
15. **RE_ LD_2b3 EIS AQ questions for Volpe.msg**: Confirmation from Volpe on fuel-import assumptions. Used in Excel file #8 above.