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| Subject: | Final Review of “Thor-50M Drawing Package with Alternate Shoulders” | Date: |  |
|  |  | 06/21/2023 |
| From:To:  | Kevin MoorhouseDivision ChiefApplied BiomechanicsTim JohnsonActing Associate AdministratorVehicle Safety Research |  |  |
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Attached is a drawing package and associated CAD models, named “Thor-50M Drawing Package with Alternate Shoulders.” Once approved, this drawing package and CAD models will be submitted to the THOR-50M research docket.

The “Thor-50M Drawing Package with Alternate Shoulders” package includes numerous updates based on user comments and incorporates callouts and designs of the non-patented NHTSA alternative shoulder design. A comprehensive list of changes is included in the file “Thor-50M with Alternate Shoulders Drawing Revisions-Jan 2023-V2.pdf” file.

This report has been through agency review, and all comments have been addressed. It is being offered for final approval before being submitted to the THOR-50M research docket.

If you have any questions, please contact Will Millis.

Attachment