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Other Languages: NONE Author: Jon Pierce
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Coding Information

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Title: Greenhouse Gas Phase 2 Regulatory Compliance Implementation

Applies To: Cummins® and International® Engines Built After January 1, 2021

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

11/22/2021 - Initial Article Release

DESCRIPTION

This document will guide the user through the process for changing an engine related parameter that may be associated with the GEM score (GEM – Greenhouse Gas Emissions Model). All changes to the certified configuration require approval by Navistar, in order to ensure compliance with the anti - tampering provisions of the Clean Air Act.

Commencing with the start of the calendar year 2021, the Environmental Protection Agency's Greenhouse Gas (GHG) regulations enter Phase 2. The Phase 2 requirements address overall vehicle emissions by incentivizing technologies that will ultimately increase fuel efficiency. **All Class 2B to Class 8 vehicles and engines are included in Phase 2. To comply with the Phase 2 GHG regulations, the engine must meet specific standards based on the emissions of Carbon Dioxide, Methane, and Nitrous Oxide (N2O).** A profile of the GHG emissions for each vehicle sold under Phase 2 is calculated using the specific engine performance characteristics along with the vehicle characteristics. This calculation is known as the GEM score.

The GEM score is calculated based on the engine performance and key vehicle characteristics:

- Rolling Resistance of the Tires
- Aerodynamic profile
- Transmission type and efficiency
- Axle efficiency
- Automatic Engine Shutdown capability
- Extended Idle Reduction/Auxiliary Power Units
- Vehicle Speed Limiters
- Weight Reduction
- Tire Pressure Monitoring and Automatic Inflation Systems
- Predictive Cruise Control
- Neutral Coast
- Neutral at Idle
- Neutral at Stop

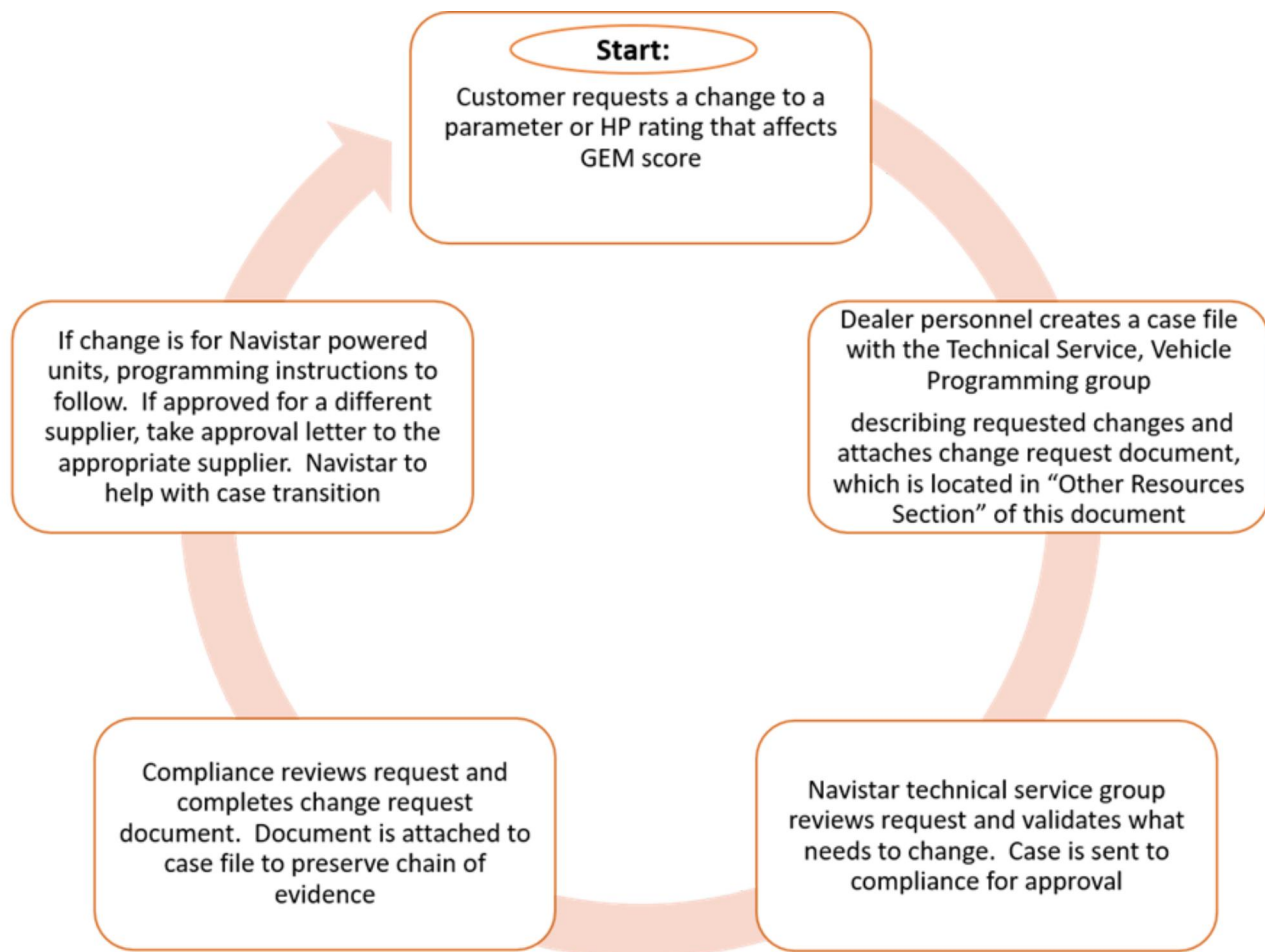
Some of these characteristics apply to the specific vehicle class that is certified. The vehicle classes are primarily separated by expected application use; Tractors (Line Haul) and Vocational will have different profile calculations.

What does this mean for the vehicle owner? **Many of the vehicle characteristics identified above will no longer be adjustable.** Some of the features cannot be disabled. This is because **installation of these characteristics constitute what Navistar considers as the vehicle certified configuration.**

NOTE:

Units that are built with TPMS (Tire Pressure Monitoring Systems) are not eligible to have that feature removed from the system as it is an integral part of the overall safety systems associated with that particular truck. Navistar will not authorize removal of this system.

Process Overview



SPECIAL TOOL(s) / SOFTWARE

N/A

[Tools Resource Center](#)

SERVICE PARTS INFORMATION

N/A

Process

Request Type	Steps To Completed By Technician	Notes:
Engine Parameter Change - GEM Score Related These parameters will be identifiable because the ECM will ask for a password other than the customer's password. <ul style="list-style-type: none"> • Idle shutdown • Global vehicle speed limit • Predictive Cruise • Neutral Coast • Low idle speed adjustment • Load based speed control - not adjustable 	<ol style="list-style-type: none"> 1. Identify which parameter needs to be changed 2. Complete the change request form 3. Start a case file with the programming group requesting the parameter change 4. Attach the word document to the case file 	Some customers also elect to change the pedal and cruise speed settings in vehicle parameters. For vehicles built on 1/1/2021 or later, pedal and cruise speed settings will still be adjustable.

Neutral at Coast Parameter - Eaton	<ol style="list-style-type: none"> 1. Utilize Service Ranger and validate the status of the parameter 2. If enabled, screen shot the parameter view 3. Complete the change request form 4. Start the case file process with the programming group - make sure you upload the change request form and screen shot of the parameter state 	<p>If the parameter in the TCM is not enabled, you will only need to have the ECM software updated. If your unit is A26 powered, the change can be done remotely. If Cummins powered, a logmein session will be required to complete the process.</p> <p>If ServiceRanger permissions do not allow you to change this configuration, contact Eaton at (800) 826-834</p>
Horse Power Rating Change	<ol style="list-style-type: none"> 1. Verify via lineset if the unit has the following feature code installed 12WGK engine re-rate capable. Additional charge for re-rate may be applicable at time of re-rate. Re-rate HP and torque change will be dependent on chassis components as well. 2. If yes, proceed with completing the change request form located in the other resources section of this document, and start a case file with the programming group. 	<p>The truck's lineset is found in the Service Portal under the components tab.</p> <p>There is a short grace period that exists in the same production year when vehicles without the re-rate designation may be re-rated by submitting a case file to request the new rating.</p> <p>Predictive Cruise Control (PCC) cannot be deactivated on vehicles built on or after 1/1/2021 . PCC is intended to improve fuel efficiency and reduce emissions.</p> <p>The responsible engine manufacturer will stage the programming, and provide the new engine label.</p>

NOTE:

Other parameters that affect the overall GEM score such as axle ratios, and tire rpms may still be dealer programmable, but a completed change request form is still required to complete the process.

U.S. EPA 40 CFR Part 1037 – CONTROL OF EMISSIONS FROM NEW HEAVY-DUTY MOTOR VEHICLES

Vehicles manufactured by Navistar have been built to comply with all applicable vehicle emissions standards. Modifications to the vehicle which will cause noncompliance are prohibited by regulations. Refer to the Vehicle Emissions Control Information (VECI) label on the vehicle for a list of Emissions reduction components. For further information, please review the vehicle operator's manual.

To comply with the Phase 2 GHG regulations, the engine must meet specific standards based on the emissions of Carbon Dioxide, Methane, and Oxides of Nitrogen (NOx). In addition, a profile of the GHG emissions for each vehicle sold under Phase 2 is calculated using the specific engine performance characteristics along with the vehicle characteristics, some of which are identified on the VECI label.

REPAIR STEP(s)

N/A

WARRANTY INFORMATION

N/A

Warranty Claim Coding:

Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

Standard Repair Time(s):

Refer to the [SRT Manual](#) for Repair Times

OTHER RESOURCES

Link	Description
Master Service Information Site	Service Portal
G-6527	Engine Re-Rating Process for Cummins and International Engines Built After 1/1/2021
G-3443	New 2022 California Emission Control

	Warranty Requirements
Change Request Form - Word Version	Download form, and submit with new case attachment - select the programming group when starting the case file
Change Request Form - PDF	Download form, and submit with new case attachment - select the programming group when starting the case file
Multiple VIN worksheet - Excel File	If you are creating a request for a fleet, only one case file will be needed. Please follow the instructions in the multiple vin worksheet and upload to the case file when ready

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Feedback Information

Viewed: 160

Helpful: 4

Not Helpful: 0

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	DYYNJZ1	You received the following feedback From: DYYNJZ1 - Nick Zogelman Email Address: WilliamsSvc.Nick.Zogelman@summittruckpartner.com Job Classification: SE003, Service Manager Dealer: WILLIAMS SERVICE Feedback: is the date right or should it read jan2022	11/23/2021 7:56:48 AM