

HD Vehicle Certification Tutorial





Regulations



U.S. EPA Regulations

- The certification and compliance regulations for [vehicles and tractors can be found in 40 CFR 1037](#)
- New manufacturers should read through thoroughly before proceeding



Registering Your Company with EPA



Manufacturer Code

- Before beginning, a manufacturer code must be requested through EPA's Engine and Vehicle Compliance Information System (EV-CIS)
- Central Data Exchange (CDX) portal to access EV-CIS
- [Step by step directions for manufacturer code request](#)



EV-CIS Registration Process

- After receiving the manufacturer code, roles must be assigned
 - Company Approving Official (CAO)
 - Identifies, vouches for, and manages EV-CIS “Submitters” and “CROMERR Signers”
 - CROMERR Signer
 - Requests certification and takes legal responsibility for all the information used as the basis
 - Submitter
 - Submits certification and compliance information for every applicable industry to EV-CIS not including certificate requests



Assigning Roles in CDX



Assigning Roles

- New manufacturer must send an initial letter to EPA
 - Template for the letter can be [found here](#)
 - The letter should be sent to Fairfax, VA address that is included in the template
 - The letter should include the manufacturer's header
 - The letter must be sent if assigning a new CAO at any time
- The CAO must be approved by EPA staff first before assigning CROMERR Signers and Submitters
- CAO will sponsor the CROMERR Signers and Submitters
- [Detailed information on CAO and roles](#) found here



Manufacturer Guidance Letters

- EPA issues Guidance Letters from time to time. These letters provide information, guidance, and instructions to the regulated industry on specific compliance topics and issues.
- To receive these letters you need to join the "manufacturer-info" [list server, send an email to join-manufacturer-info@lists.epa.gov](mailto:join-manufacturer-info@lists.epa.gov).
- Additional information on Guidance Letters and access to previously issued letters can be found at this [webpage:https://www.epa.gov/ve-certification/manufacturer-information-guidance-letters-and-advisory-circulars-vehicle-engine-and](https://www.epa.gov/ve-certification/manufacturer-information-guidance-letters-and-advisory-circulars-vehicle-engine-and)



Greenhouse Gas Emissions Model (GEM)



Greenhouse Gas Emissions Model (GEM)

- To certify a Heavy-Duty vocational vehicle and/or tractor, manufacturer must download and run GEM to input certification data in application
 - If complying with custom chassis design standards then GEM would not be required
- GEM definition: used to determine GHG emissions for heavy-duty vocational vehicles and/or tractors
- Be sure to use the appropriate GEM version for MY 2021 and on.
 - Most current version can be found in the GEM webpage link below
- Links to download the GEM software can be found here:
 - [GEM user's guide](#)
 - [GEM webpage](#)



Inputting a Data Set



Starting a New Data Set

CDX > Submitter > Submit Cert Info > Select Industry > Start New Dataset

What would you like to do?

59:56
Click here to reset timer

- Maintain Manufacturer Profile
- Submit Certification Information**
- Request Certificate or CSI Update
- Submit Fuel Economy Label Information
- Submit Compliance Information
- Update Introduction to Commerce Date



Starting a New Data Set



About CDX
MyCDX
Inbox
Change Password
Frequently Asked Questions
Help & Support
CDX Home
Terms & Conditions
Logout

EV-CIS: Engines and Vehicles - Compliance Information System

[EV-CIS Home](#) > Heavy-Duty Highway Tractor and Vocational Vehicle

Heavy Duty Highway Tractor and Vocational Vehicle GHG

- **Certification**
 - **Certification Information Submission**
 - **Start New Dataset**
 - [Upload Existing Dataset](#)
 - [Submit Batch Dataset](#)
 - [Request Dataset Report](#)
 - [Delete Dataset](#)
 - [Maintain CdA Aerodynamic Data \(Phase II Only\)](#)
 - [Submit Tire Data](#)
 - [Submit Axle Power Loss Map Data](#)
 - [Submit Transmission Data](#)
 - [Submit Powertrain Test Data](#)
 - [Upload Certification Documents](#)
- [Maintain Manufacturer Profile](#)

Help De
EF



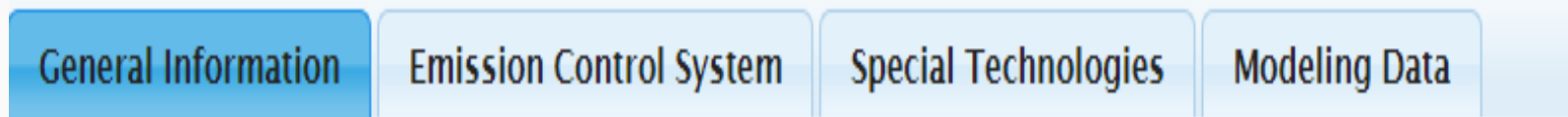
Starting a New Data Set

- **Certification Information Submission**
 - **Start New Dataset**
 - Used to manually enter your certification information for your vehicle family.
 - **Upload Existing Dataset**
 - Used to open a previously saved certification dataset from your computer. –
 - **Submit Batch Dataset**
 - Used to submit multiple certification submissions within a single XML file.
 - **Request Dataset Report**
 - Used to request a dataset report for a specific vehicle family and model year combination.
 - **Delete Dataset**
 - Used to delete a dataset submission for a specific vehicle family and model year combination.
 - **Upload Certification Documents**
 - Used to submit certification documents

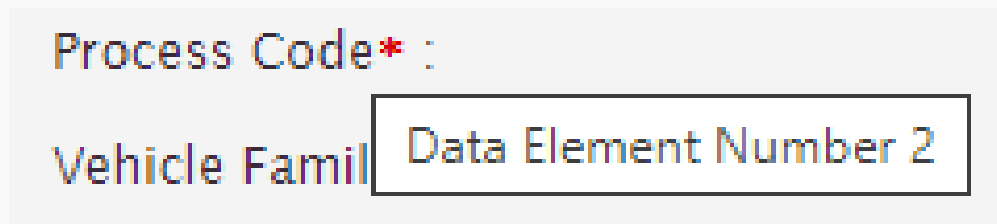


Starting a New Data Set

- The tabs include General Information, Emission Control System, Special Technologies, and Modeling Data



- [Data Element Details](#) can be found here
 - First link "Data requirements for Heavy Duty Vehicles"
- When filling in a data element, you may hover your cursor over the data element name to determine its number





Starting a New Data Set

Certification Information Submission

•Save Form

- Used to save a copy of the data that has been entered in the certification dataset.
- A saved dataset can be opened using the Upload Existing Dataset function.
- Save Form button is found in the lower left corner of the webpage.

A screenshot of a web form interface. The form has a table with two columns: "U.S. Port of Import - Name*" and "City*". Below the table is a "Select" dropdown menu. In the bottom left corner, a blue button labeled "Save Form" is circled in red. A timer in the bottom left corner shows "59:42" and a link to "Click here to reset timer". In the bottom right corner, there is a red banner that says "You are in an encrypted" and a footer with contact information: "Help Desk: (888) 890-1995 Email: EPA Home | Privacy and Secur".

U.S. Port of Import - Name*	City*	
		Select

59:42
Click here
to reset timer

Save Form

You are in an encrypted

Help Desk: (888) 890-1995 Email: EPA Home | Privacy and Secur

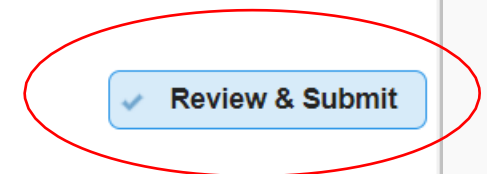


Starting a New Data Set

Certification Information Submission

•Review and Submit

- Used to submit a completed certification dataset.
- A complete dataset must be successfully submitted before requesting a certificate of conformity.
- Review and Submit button is found in the lower right corner of the webpage.

A screenshot of a web form. It features a table with a header row containing a blue box labeled "State*" and a light blue button with a plus sign and the text "Add". Below the header is a dropdown menu with the text "Select" and a downward arrow. To the right of the dropdown is a light blue button with a trash can icon and the text "Delete".

You are in an encrypted secure session.

elp Desk: (888) 890-1995 Email: evcishelndesk@enacdx.net



Starting a New Data Set

Certification Information Submission

- Review and Submit Continued

- If your dataset is incomplete, you will receive an error message, in red text near the top of the page, when you attempt to submit your dataset.
- Click on the error message and you will be taken to the location of the error. Once the errors are corrected you can submit the dataset once again.

EV-CIS Home > Heavy-Duty Highway Tractor and Vocational Vehicle > Certification Information Submission

Certification Information Submission

* or * = required field
+ = CTRL-click to select and deselect multiple values

General Information | Emission Control System | Special Technologies | Modeling Data | A/C System

- [Are you certifying to a higher vehicle service class per 1037.105\(g\) or 1037.106\(f\)? is a required field.](#)
- [Errors on Special Technologies Tab](#)

General Information

EPA Manufacturer Code: EPA

Process Code* : N = New Submission

Model Year* : 2021

Vehicle Family Name* : MEPA2VOCV309



General Information Tab (1/7)

- Process Code (Data Element #2) > N =New Submission
- Model Year (Data Element #3) > Enter anticipated year of selling
 - [Model Year Definition](#)
- Vehicle Family Name (Data Element #4) > 12-character unique name
 - [Naming convention](#)
- Indicate whether the certification application for this family is complete (Data Element #282)
 - If beginning a new dataset > No
 - Once the application is believed to have a complete dataset and include the required documents > Yes
- Do you meet small business criteria (Date Element #137)
 - Defined in 1037.150(c)
 - To qualify for the small manufacturer exclusion, you will need to disclose the company ownership and affiliations as pertain to how the Small Business Administration determines the number of employees.



General Information Tab (2/7)

- Select the applicable regulations for the vehicle family (Data Element #138)
 - The options include the corresponding regulations
- Vehicle Fuel (Data Element #8)
 - More than one option may be selected by holding Ctrl as you select
 - Engine Family information will be required, this includes the engine family name and model year
 - Include all engine families that will be installed in the vehicle
 - More than one engine family may be included by pressing "Add"
 - Include all engine family names for engines you will offer for this vehicle family
- Useful Life (Data Element #9)
 - The options are described in 1037.105
- Was powertrain testing used for certification of any vehicles within this family? (Data Element #228)
 - Specifications in 1037.550



General Information Tab (3/7)

- Are you using averaging, banking and trading provisions of Part 1037 Subpart H? (Data Element #130)
 - If you are not participating in the voluntary program > No
 - If you are participating in the voluntary program > Yes
 - You must submit a report of the projected credit balance and complete the following:
 - Projected End-of-Year CO2 Credit Balance for all Averaging Sets (Data Element #131)
 - » If projected total credit balance is zero or positive > NONEG
 - » If projected total credit balance is negative > NEGATIVE
 - Projected End-of-Year CO2 Credit Balance for Vehicle Family (Data Element #132)
 - » If projected vehicle credit balance is zero or positive > POSZERO
 - » If Projected vehicle credit balance is negative > NEGATIVE
 - If you using ABT for custom-chassis designs, refer to additional provisions in 1037.105(h)(2)



General Information Tab (4/7)

- Are any vehicles in this vehicle family equipped with an evaporative emissions control system? (Data Element #11)
 - Such as gasoline, CNG, or LPG
- CO2 Emission Standard (g/ton-mile) (Data Element #13)
 - Standards can be found in 1037.105
- Are you certifying to a higher vehicle service class per 1037.105(g) or 1037.106(f) (Data Element #14)
- Lowest Projected CO2 Family Emission Limit (g/ton-mile) (Data Element #15)
 - GEM produced value based on best case emission limit with the combination of tires, weight reduction, etc.
- Highest Projected CO2 Family Emission Limit (g/ton-mile) (Data Element #16)
 - GEM produced value based on worst case emission limit with the combination of tires, no weight reduction, etc.



General Information Tab (5/7)

- Highest Projected Sales Volume CO2 Family Emission Limit (g/ton-mile) (Data Element #17)
 - This value is based on your projected sales
- Estimated Total U.S. Production Volume (Data Element #18)
- Production Start Date (Data Element #19)
 - You cannot sell/distribute vehicle until approval of the Certification of Conformity
- Production End Date (Data Element #20)
 - The date cannot exceed December 31 of the Model Year
- Are you a secondary vehicle manufacturer as defined in 1037.801 (Data Element #21)
 - If you are not a secondary vehicle manufacturer > NO
 - If you are a secondary vehicle manufacturer > YES
 - Enter the original vehicle manufacturer name (Data Element #22)



General Information Tab (6/7)

- Include Trade Name(s) of Vehicles in Family (Data Element #23)
 - Click "Add" to include multiple trade names, each name must be unique
- Typical Application Description (Data Element #24)
 - Describe how the vehicle will be used (Ex. School bus, Delivery, Refuse Hauler, etc.)
- Are you using an EPA-assigned deterioration factor (DF) (Data Element #25)
 - If opting to use EPA-assigned DF values > YES
 - Additive Deterioration Factor Value (Data Element #26) and Multiplicative Deterioration Factor Value (Data Element #27) will automatically fill in
 - If applying your developed DF values > NO
 - Include DF value for either Additive Deterioration Factor Value (Data Element #26) and/or Multiplicative Deterioration Factor Value (Data Element #27)
 - A document will need to be included in the application describing how you developed the DF values with emission test data to support values



General Information Tab (7/7)

- Vehicle Family Comments (Data Element #28)
 - Gives the opportunity to provide other information or notes for your certification representative
- Vehicle Assembly Plant Name (Data Element #29)
 - You may select more than one plant by holding "Ctrl" as you select
- Agent for Service in U.S. Name (Data Element #33)
 - Company official in U.S. legally responsible for or legally represents the company
 - The Agent for Service in U.S. Name field is populated with names of the contacts for this industry on the Contact Information tab in the Maintain Manufacturer Profile module.
- Port-Import Information > If you are importing the vehicles into the U.S., the following Data Elements must be completed
 - U.S. Port of Import-Name (Data Element #30)
 - City (Data Element #31)
 - State (Data Element #32)



Emission Control System Tab

- Emission Control System (Data Element Number 34): Select all that apply while holding "Ctrl"
 - Typical applications include:
 - ATI = Automatic tire inflation system
 - WR = Vehicle weight reduction
 - Low Rolling Resistance Tires
 - You may select LRRR, LRRD, LRRS, but if you select LRR an error will occur
- Does this vehicle family have any adjustable parameters? (Data Element Number 35):
 - If yes, include Adjustable Parameter Name and a description of the range
- Does this vehicle family have any auxiliary emission control devices (AECD)? (Data Element Number 38)
 - If yes, include AECD ID and Name, AECD Sensed Parameters, AECD Controlled Parameters, AECD Function Description
- Are there any conditions under which the effectiveness of this AECD is reduced? (Data Element Number 44):
 - If yes, please provide a description of the AECD Reduced Effectiveness



Special Technologies Tab (1/2)

- Are any sub-families within this vehicle family being certified with advanced technologies as defined in 1037.615? (Data Element #46)
 - If yes, you will have to provide information regarding the advanced technologies.
- Battery Electric and Hydrogen Fuel Cell Vehicles
 - Must supply data on the Special Technologies tab.
 - Electric vehicles are deemed to have zero emissions. See 40 CFR [1037.150\(f\): https://www.ecfr.gov/cgi-bin/text-idx?SID=a2c8cac37ef7410dbd787c94a33f6871&mc=true&node=se40.36.1037_1150&rgn=div8](https://www.ecfr.gov/cgi-bin/text-idx?SID=a2c8cac37ef7410dbd787c94a33f6871&mc=true&node=se40.36.1037_1150&rgn=div8)
 - GEM input/out is not required but must upload a dummy document to meet system processing requirement.



Special Technologies Tab (2/2)

- Is this vehicle family using an EPA-approved off-cycle/innovative technology? (Data Element #67)
 - If yes, you will have to provide information regarding the off-cycle/innovative technology.



Modeling Data (1/2)

- Are any vehicles in the family equipped with intelligent controls (i.e., neutral coast for tractors and vocational vehicles or predictive cruise control for tractors only) for which you are claiming credits? (Data Element Number 259)
- Does any configuration in this vehicle family use a vehicle speed limiter (VSL) modeled under section 1037.520? (Data Element Number 77):
 - If yes, you will have to provide information regarding the specifics of the VSL
- Do any of the configurations within this vehicle family utilize idle reduction features as described in 1037.660? (Data Element Number 281)
 - If yes, you will have to provide information regarding the specifics of the Idle Reduction Technology



Modeling Data (2/2)

- Will wheel-related weight reduction be claimed per 1037.520(e)(1)? (Data Element Number 105)
 - If yes, you will have to provide information regarding the wheel weight reduction information
- Will non-wheel-related weight reduction be claimed per 1037.520(e)(2)? (Data Element Number 110)
 - If yes, you will have to provide information regarding the non-wheel weight reduction information
- Have any vehicles in this vehicle family received EPA pre-approval for off-cycle technology weight reduction? (Data Element Number 114)



A/C System Tab

- Are any vehicles in this vehicle family equipped with an A/C system? (Data Element Number 118)
 - A/C System Leakage regulations are found in 1037.115(e): [1037.115\(e\)](#)
 - If yes, you will have to provide information regarding the A/C system.
 - If R-134 is used, the global warming potential (GWP) will automatically be filled in
 - If another refrigerant is used, most include the GWP
 - For cabin cooling that is not a self-contained A/C unit, independent of the vehicle (e.g. Cool trailers, buses, transit buses)
 - Procedures can be found in 40 CFR [86.1867-12](#) and [1037.115\(e\)](#) and SAE J2064 and J2727



Submitting Tire Data



Tire Data

- CDX > Submitter > Submit Cert Info > Select Industry > Submit Tire Data



The screenshot shows the EV-CIS website interface. On the left is a navigation menu with the EPA logo and links for About CDX, MyCDX, Inbox, Change Password, Frequently Asked Questions, Help & Support, CDX Home, Terms & Conditions, and Logout. The main content area has a blue header for 'EV-CIS: Engines and Vehicles - Compliance Information System'. Below the header is a breadcrumb trail: 'EV-CIS Home > Heavy-Duty Highway Tractor and Vocational Vehicle'. The main title is 'Heavy Duty Highway Tractor and Vocational Vehicle GHG'. A 'Certification' section contains a list of links: 'Certification Information Submission' (with sub-links for Start New Dataset, Upload Existing Dataset, Submit Batch Dataset, Request Dataset Report, and Delete Dataset), 'Maintain CdA Aerodynamic Data (Phase II Only)', 'Submit Tire Data' (circled in red), 'Submit Axle Power Loss Map Data', 'Submit Transmission Data', 'Submit Powertrain Test Data', and 'Upload Certification Documents'. A 'Maintain Manufacturer Profile' link is also present at the bottom.

EV-CIS: Engines and Vehicles - Compliance Information System

[EV-CIS Home](#) > Heavy-Duty Highway Tractor and Vocational Vehicle

Heavy Duty Highway Tractor and Vocational Vehicle GHG

- **Certification**
 - Certification Information Submission
 - [Start New Dataset](#)
 - [Upload Existing Dataset](#)
 - [Submit Batch Dataset](#)
 - [Request Dataset Report](#)
 - [Delete Dataset](#)
 - [Maintain CdA Aerodynamic Data \(Phase II Only\)](#)
 - [Submit Tire Data](#)
 - [Submit Axle Power Loss Map Data](#)
 - [Submit Transmission Data](#)
 - [Submit Powertrain Test Data](#)
 - [Upload Certification Documents](#)
- [Maintain Manufacturer Profile](#)



Tire Data

- [EPA Template](#)
 - To save the template as a CSV – right-click on the page and “save as”
 - Any row that starts with a blank or # in the first column will be ignored.
 - If the row contains tire information, the first column must contain the word "TIRE".
 - Format must match exactly as specified in template (no extra digits, capitalization, etc.)
 - Examples:
 - TIRE,Goodyear,11.2,Test1,185R17,D,555
 - TIRE,BFGoodrich,12.3,BFG1,185R17,S,666
 - TIRE,Goodyear,1.5,Test2,185R17,DS,100
- Why is business rule "TIRE-BR001 - Field Edits/Changes/Corrections (TIRE-3) is required when editing a Tire submission. Otherwise, it is not allowed" returned for my "New" Tire Data submission when I do not have an entry in this field?
 - There is probably a space in the "Field Edits/Changes/Corrections" field that cannot be seen but needs to be deleted. Please go to this field, place the cursor to the top left of the field and hold the 'Delete' button down for 5-10 seconds so that any number of possible spaces are deleted.



Tire Data Example

17	# Examples						
18	TIRE	Goodyear	11.2	Test1	185R17	D	555
19	TIRE	BFGoodrich	12.3	BFG1	185R17	S	666
20	TIRE	Goodyear	1.5	Test2	185R17	DS	100



Adding Certification Documents



Certification Documents

- CDX > Submitter > Submit Cert Info > Select Industry > Upload Certification Documents



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- Certification
 - Certification Information Submission
 - [Start New Dataset](#)
 - [Upload Existing Dataset](#)
 - [Submit Batch Dataset](#)
 - [Request Dataset Report](#)
 - [Delete Dataset](#)
 - [Maintain CdA Aerodynamic Data \(Phase II Only\)](#)
 - [Submit Tire Data](#)
 - [Submit Axle Power Loss Map Data](#)
 - [Submit Transmission Data](#)
 - [Submit Powertrain Test Data](#)
 - [Upload Certification Documents](#)
- [Maintain Manufacturer Profile](#)



Certification Document Definitions (1/5)

- **Aerodynamics Report:** Required for Tractor families, describes coastdown process and Falt aero process and any other related info such as wind tunnel.
- **Auxiliary Emissions Control Device (AECD) Information:** any element of design that senses temperature, motive speed, engine rpm, transmission gear, or any other parameter for the purpose of activating, modulating, delaying, or deactivating the operation of any part of the emission control system.
- **Averaging, Banking, and Trading (ABT) Credit Projection (Subpart H):** Statement of good faith that includes an estimate of credits generated for model year based on projected production volume sales and GEM results.
 - For ABT details including calculation see 1037 Subpart H: [ABT Details](#)
 - Standard Payload values can be found in 1037.801: [Definitions](#)



Certification Document Definitions (2/5)

- Durability/Deterioration (DF) Report (40 CFR 86.1823-08): Predict an expected in-use emission deterioration rate and emission level that effectively represents a significant majority of the distribution of emission levels and deterioration in actual use over the full and intermediate useful life of candidate in-use vehicles of each vehicle design.
- Field Fix Letter: Statement regarding any changes to the original submission
 - Field Fix: Changes made to vehicles that have been manufactured
 - Such as: recalls, service campaigns, etc
- GEM Input/Output File: excel file generated for a configuration, minimum of 10 representative gem runs unless less than 10 total configurations. Must include the best performing, worst performing, and highest estimated sales volume configurations



Certification Document Definitions (3/5)

- GHG Off-Cycle Technology Documentation: Vehicle technologies resulting in CO2 emission reductions that are not reflected in GEM.
- High-Efficiency A/C Compressor Engineering Analysis (1037.205, 86.1868-12(h)(5)): Description of engineering analysis demonstrating that your air conditioning compressor qualifies as a high-efficiency model.
- Maintenance Instructions (1037.125): Written instructions for properly maintaining the vehicle with regards to the emission components that are part of the certified configuration
 - Such as: Tires, TPMS, ATIS, etc



Certification Document Definitions (4/5)

- Other Certification Document: Any document necessary for certification that has not been already specified.
- Running Change Letter: A letter describing the changes a manufacturer is making to a vehicle family within its model year
- Sample Vehicle Emission Control Label (1037.135): Sample of the vehicle's label including corporate name, trademark, VIN, etc.



Certification Document Definitions (5/5)

- Secondary Vehicle Manufacturer Information (1037.130): Instructions for completing vehicle assembly consistent with EPA's requirements.
- Tire Crr Statement (1037.550): A letter provided by the tire manufacturer that includes the tire coefficient of rolling resistance and an attestation that the tire Crr data meets the EPA regulatory testing requirements.
- Warranty Statement (1037.120): Warranty given out to ultimate purchaser and subsequent purchaser that meets EPA's conditions.
- Maintenance Statement (1037.125, 1037.220): Instructions for the purchaser to properly maintain the vehicle, emission control system and tires.



Common Certification Document Questions

- Why did I not receive a CDX inbox notification for my submodule submission (Tire Data, Axle Power Loss Map, Transmission data, or Engine Map data).
 - EV-CIS does not currently send a notification to the CDX inbox for submodule submissions. Manufacturers are advised to take a screenshot of the completed message displayed on the screen and to coordinate/track these submissions with their colleagues.
- How do I add new vehicle families to transmission and axle files that I've already submitted?
 - You will have to resubmit the file with a new file name and make sure that you duplicate the metadata verbatim and re-enter all of the associated families.



Warranty Statement Specifications

- It is important to note that the warranty period for vehicle and emissions-related components differ from the tire warranty period.
- The specific warranty periods are described in 1037.120(b) and (c).
 - Light HDV – 5 years or 50,000 miles
 - Medium and Heavy HDV – 5 years or 100,000 miles (except tires)
 - Tires – 2 years or 24,000 miles
 - Components included in application for certification
 - The emission-related warranty covers all components whose failure would increase a vehicle's emissions of air conditioning refrigerants (for vehicles subject to air conditioning leakage standards), and it covers all components whose failure would increase a vehicle's evaporative emissions (for vehicles subject to evaporative emission standards).



Warranty Statement Example (1/2)

- **VEHICLE EMISSIONS LIMITED EXPRESS WARRANTY ORIGINAL EQUIPMENT TIRES**
 - XXXXXXX Inc warrants the tires installed as original equipment on this vehicle only against defects in materials and workmanship which cause the vehicle to fail to comply with applicable U.S. and Canadian greenhouse gas emission limits (“Warrantable Emissions Failures”). This vehicle emissions limited express warranty relating to original equipment tires is valid for two (2) years or 24,000 miles, whichever occurs first.
- ***TIRES of XXXXX VOCATIONAL VEHICLES***
 - a. This tire warranty would not cover replacement tires or damage from road hazard, improper inflation and/or wear.
 - b. The warranty is applicable to a new vehicle which meet two conditions:
 - 1) It is designed, built, and equipped so it conforms at the time of sale to the ultimate purchaser with the requirements of GHG regulation.
 - 2)it is free from defects in materials and workmanship that cause the vehicle to fail to conform to the requirement of GHG regulation during the applicable warranty period. 24,000 miles or 2 years. No charge.



Warranty Example (2/2)

- **XXXXXX warrants** that its vehicles are (1) designed, built and equipped with tires that conform, at the time of sale, with requirements of vehicle manufacturers whose vehicles are designed to meet applicable 2014 and later, U.S. Environmental Protection Agency and National Highway Traffic and Safety Administration greenhouse gas and fuel efficiency standards, and (2) those tires are free from defects in material and workmanship which cause the vehicle to fail to conform with the vehicle manufacturer's requirements for a period of 2 years or 24,000 miles, whichever occurs first.



Tire Maintenance Instruction (1037.125)

Example (1/2)

- **Replacing a tire that is greenhouse gas certified**
 - The tires installed on this vehicle at the factory as original equipment are certified for Greenhouse Gas and Fuel Efficiency regulations. Replacement tires must be of equal or lower rolling resistance level (TRRL or Crr). Consult with your tire supplier(s) for appropriate replacement tires.
- **Maintaining a greenhouse gas certified tire**
 - In order to limit the rolling resistance of the tires and thereby optimize fuel economy, the maintenance procedures specified by the tire manufacture must be followed. As owner or operator, your vehicle and equipment should be properly maintained in good working order.
 - Repair and replacement of vehicle components should be done to original vehicle manufacturers' specifications to ensure proper function of the vehicle. Tire replacement should be to tires with performance as good, or better, than tires originally equipped on the vehicle. Consult with the tire manufacturer for tire specifications.



Maintenance Instruction (1037.125)

Example (2/2)

- ***IMPORTANT:***

- *The tires fitted to this vehicle are certified by US heavy-duty vehicle greenhouse gas (GHG) and fuel efficiency regulations for the CO2 emissions by the tire rolling resistance performance. Therefore, if the replacement of is necessary, replacement tires must meet or exceed the rolling resistance of the originally installed tires in order to maintain compliance with the regulatory CO2 emission standard. Contact your tire manufacturer/supplier to determine the rolling resistance of the originally installed tires.*



Confirming Dataset or Document Submission Has Been Accepted

- After you have submitted a dataset or document you should your CDX Inbox for a message providing the status of your submission

CDX Central Data Exchange

MyCDX **Inbox** My Profile Submission History Payment History E-Enterprise Portal

353 items found; displaying 21 to 40.

<input type="checkbox"/>	<u>From</u>	<u>Subject</u>
<input type="checkbox"/>	Verify Administrator	Submission rejected for your file upload Tire Letters.docx
<input type="checkbox"/>	Verify Administrator	Submission accepted for your file upload ABT Projection Doc.docx
<input type="checkbox"/>	Verify Administrator	Submission rejected for your file upload GEM Input-Output.xlsx
<input type="checkbox"/>	Verify Administrator	Submission Accepted. EPA HD Vehicle Certification Dataset MEPA2VOCVWW2
<input type="checkbox"/>	Verify Administrator	Submission Rejected. EPA HD Vehicle Certification Dataset MEPA2VOCVA12



CROMERR Signer



CROMERR Signer

- CROMERR Signer
 - Requests certification and takes legal responsibility for all the information used as the basis
- The CROMERR Signer will sign off on the dataset after it's been approved
- The CROMERR Signer does not necessarily have to be someone different from the Submitter



Requesting a Certificate

EPA **EV-CIS** Engines and Vehicles - Compliance Information System **My CDX** **CDX Inbox** **THINHNGUYEN**

EV-CIS Home

What would you like to do?

59:42
Click here to reset timer

- Maintain Manufacturer Profile
- Submit Certification Information
- Request Certificate or CSI Update**
- Submit Fuel Economy Label Information
- Submit Compliance Information
- Update Introduction to Commerce Date



General Information

- Enter the following:
 - Process code
 - New submission – Initial certificate request for a vehicle family
 - CSI Update – If making a correction or update to the dataset
 - Revised Certificate – If making an FEL change or any change that would revise data printed on the certificate of conformity
 - Industry
 - Model Year
 - Vehicle Family Name



Certification Documents

- Select all the documents associated with the vehicle family
 - Note: All documents that are created and approved are listed, be sure to select only the documents that apply to the specific vehicle family



Certification Statement

- Introduction commerce date
- Select "I agree to unconditional certify that all the vehicles in the vehicle family comply with the requirements of the CFR and the Clean Air Act"
- Review the data for correctness
- Sign and submit
 - Accept the unconditional statement
 - Reenter password and answer security questions



Completion of Request for Certification

- CDX will send a confirmation message to your CDX inbox
- EPA will then review the request for certificate
 - Further information/documentation may be requested before any decision
- If the request is denied, you will receive a notification in your CDX inbox
- If the request is approved, you will receive a signed copy of the Certification of Conformity



Key Notes Regarding Certificate Requests

- A new certificate request will have to be made each model year
- A running change does not necessarily mean a new certificate request
 - A new certificate request will have to be made if there are emissions or deterioration impact
 - If there are changes made on the certificate such as:
 - Best case or worse case FEL changes
 - If there are no emissions or deterioration impact, a CSI update would be best



Annual Compliance Reporting

- Production volume
 - Final number of sold vehicles
- ABT Final Report
 - Final credits generated with the final production volumes
- The templates for the reports can be found [here](#)









Compliance Reporting

- CDX > Submitter > Submit Compliance Info

What would you like to do?

59:56
Click here to reset timer

 Maintain Manufacturer Profile	 Submit Certification Information	 Request Certificate or CSI Update
 Submit Fuel Economy Label Information	 Submit Compliance Information	 Update Introduction to Commerce Date



Compliance Reporting

Heavy-Duty Highway Tractors and Vocational Vehicles

 [Change Industry](#)



Averaging, Banking, and Trading



Defects and Recalls



Exempted Off-Road Vehicles



In-Use Compliance Testing



Production Volume



Selective Enforcement Audit

52:21
Click here to
reset timer

Don't see what you're looking for?

[Upload Compliance Documents](#)

<https://testngn.epacdxnode.net/verify/E2DHandoff?URL=/evcrm-ui/index.html%3...>





Averaging, Banking, and Trading


- CDX > Submitter > Submit Compliance Info > Averaging, Banking, and Trading > Select Industry


Heavy-Duty Highway Tractors and Vocational Vehicles Change Industry


52:21
Click here to reset timer



Averaging, Banking, and Trading


Defects and Recalls


Exempted Off-Road Vehicles


In-Use Compliance Testing


Production Volume


Selective Enforcement Audit

Don't see what you're looking for?

[Upload Compliance Documents](#)

<https://testngn.epacdxnode.net/verify/E2DHandoff?URL=/evcrm-ui/index.html%3...>



Averaging, Banking, and Trading

- Click Import CSV to use the template file given earlier.
- Input Model Year, Report Name, Report Type, and select the file to import
 - Report Type: End of Year 90 day or End of Year 270 day

[EV-CIS Home](#) » [HDV ABT Reports](#) » Import HDV ABT Report

HDV – Averaging, Banking and Trading Report: Import

* = Required Field

Report Details

*Model Year	<input type="text" value="2020"/>
Manufacturer Code	<input type="text" value="EPA"/>
*Report Name	<input type="text"/>
*Report Type	<input type="text" value="End of Year 90 Day Report"/>
*Import File	<input type="button" value="Choose File"/> <input type="text" value="No file chosen"/>

|



Production Volume

- CDX > Submitter > Submit Compliance Info > Production Volume > Select Industry

Heavy-Duty Highway Tractors and Vocational Vehicles Change Industry

 Averaging, Banking, and Trading	 Defects and Recalls	 Exempted Off-Road Vehicles
 In-Use Compliance Testing	 Production Volume	 Selective Enforcement Audit

Don't see what you're looking for?

[Upload Compliance Documents](#)

<https://testngn.epacdxnode.net/verify/E2DHandoff?URL=/evcrm-ui/index.html%3...>

52:21
Click here to reset timer



Production Volume

- Click Import CSV to use the template given earlier.
- Only Model Year, Report Name, and the CSV file is needed.

EV-CIS Home » [HDV Production Volume Reports](#) » Import HDV Production Volume Report

HDV – Production Volume Reports: Import

* = Required Field

Report Details

*Model Year	<input type="text" value="2020"/>
Manufacturer Code	EPA
*Report Name	<input type="text"/>
*Import File	<input type="button" value="Choose File"/> No file chosen

|



CDX Help Desk

- If you have any further questions or concerns, please contact the CDX Help Desk or your Certification Representative.
- You can contact the CDX Help Desk through telephone, email, or chat.
 - 888-890-1995 for U.S. Domestic, 970-494-5500 for International.
 - Helpdesk@epacdx.net for help with account setup, passwords, etc.
 - Evcishelpdesk@epacdx.net for help with documents, business rules, or navigating the user interface
 - Chat can be found on the CDX website on their Contact Us page.