

Spark-Ignition Engine, Equipment and Vehicle Compliance

This United States Environmental Protection Agency (or EPA) tutorial provides a general overview of certification and compliance topics applicable to the industry sectors of the Gasoline Engine Compliance Center of the Compliance Division in the Office of Transportation and Air Quality. It is our intent to provide helpful information and not set new policy in this tutorial. This tutorial applies to manufacturers of nonroad spark-ignition (or SI) engines, equipment, vehicles and evaporative components and on-highway SI motorcycles and heavy-duty engines.

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Topics

- This tutorial presents an overview of the Gasoline Engine Compliance Center (or GECC) industry sectors, background information, regulations, and manufacturer requirements for certification.
- We will review the certification process and the Engines and Vehicles Compliance Information System (or EV-CIS) in which we describe certification and compliance information submitted in EV-CIS.
- A summary of key points and a helpful resources section are provided at the end of this tutorial.

The Gasoline Engine Compliance Center (or GECC) Industry Sectors

The GECC covers the certification and compliance activities for the following Industry Sectors:

- All-Terrain Vehicles (or ATVs or Recreational Vehicles);
- Heavy-Duty On-Highway Evaporative Systems (or HD EVAP);
- Heavy-Duty Spark-Ignition On-Highway Engines (or HD SI);
- Large Nonroad Spark-Ignition Engines (or Large SI);

- Marine Spark-Ignition Engines (or Marine SI);
- Nonroad Evaporative Components (including fuel lines, tanks and caps);
- Nonroad Evaporative Equipment & Vessels;
- Nonroad Evaporative Portable Fuel Containers (or PFCs);
- Off-Highway Motorcycles (Recreational Vehicles);
- On-Highway Motorcycles;
- Small Nonroad Spark-Ignition Engines & Equipment (or Small SI);
- Snowmobiles (Recreational Vehicles); and
- Utility Vehicles.

Background Information

Manufacturers are required to demonstrate compliance with EPA emissions standards and must complete the certification process and obtain a certificate of conformity in order to sell engines, vehicles, equipment, and evaporative components in the United States as authorized by the Clean Air Act and the Clean Air Act Amendments.

EPA has the authority under the Clean Air Act to confirm emissions standards submitted by manufacturers.

EPA may perform testing on engines, vehicles, equipment, and evaporative components at EPA's National Vehicle and Fuel Emissions Laboratory (or NVFEL) or at an EPA-designated contract test facility.

EPA may also test at the manufacturers' facility and audit their production.

GECC Industry Sector Regulations

The regulations for GECC Industry Sectors are under Title 40 – Protection of Environment in the Code of Federal Regulations (or CFR). These are the main regulations that apply to each industry sector; however, the regulations listed here may reference other regulations.

- The regulations for All-Terrain Vehicles (or Recreational Vehicles) are located in Part 1051;
- The regulations for Heavy-Duty On-Highway Spark-Ignition Evaporative Systems are found in Part 86 and Part 1037;
- The regulations for Heavy-Duty Spark-Ignition On-Highway Engines are located in Part 86 and Part 1036;
- Large Nonroad Spark-Ignition Engines regulations are found in Part 1048;
- Marine Spark-Ignition Engines regulations are located in Part 1045;
- The regulations for Nonroad Evaporative Components and Equipment & Vessels are under Part 1060;
- The regulations for Nonroad Evaporative Portable Fuel Containers are located in Part 59.600 Subpart F;
- Off-Highway Motorcycles regulations are found in Part 1051;
- On-Highway Motorcycles regulations are found in Part 86, Subpart E

- The regulations for Small Nonroad Spark-Ignition Engines and Equipment are located in Part 1054; and
- Snowmobiles regulations can be found in Part 1051.

What Are the Manufacturer Requirements for Certification?

To certify, manufacturers are required to:

- Request a Manufacturer Code from EPA;
- Set up account(s) with EV-CIS and complete the Cross-Media Electronic Reporting Rule (or CROMERR) process;
- Use EPA Standardized Naming Conventions to create engine or evaporative family names (see Guidance Letter CD-17-10);
- Pay certification fees; and
- Use EV-CIS to submit certification and compliance information.

The links for registration information and the Document Index System – the repository for Guidance letters – are available through the Helpful Resources found at the end of this tutorial.

For assistance, contact the EV-CIS Help Desk at 202-747-5320 or send an email to evcishelpdesk@epacdx.net.

For user account help, see the Helpful Resources section at the end of this tutorial for additional information.

Certification Fee Payment

Manufacturers must pay fees in advance of receiving certification.

- First, go to www.pay.gov.
- Then, search for the “EPA MVECP Fee Filing Form”.
- Make the fee payment for each certification family.
- Review the annual Guidance Letter on fees in the Document Index System. A link to the Document Index System is available in the Helpful Resources section at the end of this tutorial.

What Is the Certification Process?

The certification process requires manufacturers to:

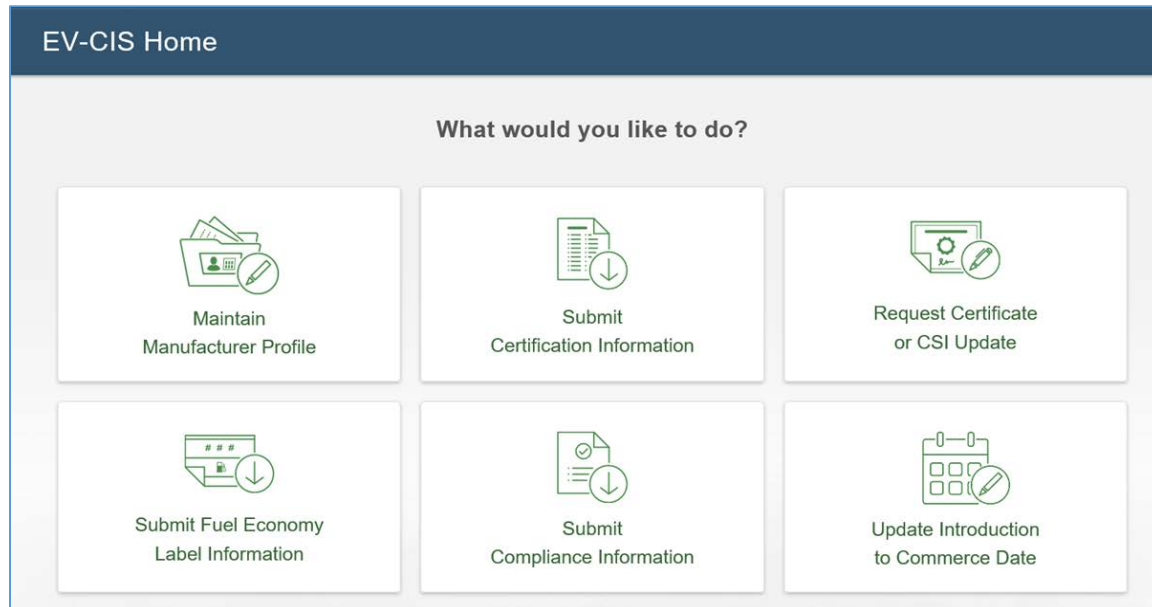
- Log into your EV-CIS/CDX Account to access your Central Data Exchange (or CDX) Inbox;
- Update your Maintain Manufacturer Information;
- Enter your Engine Family or Evaporative Family dataset;
- Submit your application by completing the dataset fields;
- Upload your documents;
- Submit your Request for Certificate; and
- Update or correct your datasets.

Submitting Information in EV-CIS

Manufacturers will need to access the following modules in EV-CIS:

- Maintain Manufacturer Profile;
- Submit Certification Information;
- Request a Certificate or CSI Update; and
- Submit Compliance Information.

Note the other two options on this screen are not discussed in this tutorial.



Maintain Manufacturer Information in EV-CIS

- Manufacturers are required to maintain your manufacturer information in EV-CIS.
 - You can update Manufacturer Addresses, Contacts, Test Labs, and other information in the EV-CIS Maintain Manufacturer Profile module.
 - You can also add any new or missing manufacturer information; and
 - Inactivate any obsolete information.
- Not updating manufacturer Information could delay EPA certification review.

Submitting Certification and Compliance Documents in EV-CIS

Certification Documents:

- Certification documents are required by EPA prior to manufacturers receiving a certificate and are specific to industry sector.
- Certification documents include:
 - Sample Label Language, Test Data Worksheets, Bond Worksheets, Equipment Worksheets, Deterioration Factor (or DF) Reports, and the Warranty Statement.

Compliance Reports:

- Compliance reports (or documents) are required after vehicle and engine manufacturers receive a certificate.
- Compliance reports are required after the start of production and are also specific to industry sector.
- Compliance reports include:
 - The Annual Production Volume Report; Averaging, Banking and Trading (or ABT) reports; Production Line Testing (or PLT) reports; and Defect Reporting
- The Annual Production Volume Report should include the total U.S. production for ALL 50 states.

How Do I Submit a Certification Application in EV-CIS?

Manufacturers must complete the EV-CIS application dataset for each engine or evaporative family they plan to certify. Enter the required certification information. Select the “Submit Certification Information” icon located on the EV-CIS home page. Correct all errors before submitting a request for certificate.

U.S. Environmental Protection Agency
EV-CIS: Engines and Vehicles - Compliance Information System

EV-CIS Home > Fuel Line > New Submission
Logged in as, TVALLION. Manufacturer: EPA - EPA (Logout)

Evaporative Component Submission Form - Fuel Line

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

? Help

Evaporative Family | Test Information

General Information

Manufacturer Code : EPA
Manufacturer Name * : Environmental Protection Agency
Model Year * : Select ▼
Process Code : Select ▼
Evaporative Family * :

Evaporative Family Information

Update/Correction Type : Select ▼
Applicable CFR Part * : Select ▼
Carryover Original Certification Model Year : Select ▼
Carryover Indicator * : Select ▼
Carryover Original Evaporative Family :

Alternative Trade Name(s)	
	+ Add
	Delete

Cold Weather Fuel Line Indicator : Select ▼
Note: If Cold Weather Fuel Line Indicator is 'Yes', then the minimum model year
Low-Emission Fuel Line Indicator : Select ▼

Uploading Certification Documents in EV-CIS: Document Types

Certification documents are required to be submitted in EV-CIS with a dataset application. Select the Document Type from the menu when uploading documents in EV-CIS.

Example certification document types include:

- Sample Label Language;
- Test Data Worksheets;
- Bond Worksheets; and
- DF Reports.

Engine Family/Test Group :

Evaporative/Permeation/Refueling Family :

Model Year * :

Due to memory and file size constraints, documents exceeding 100MB will not be accepted.

Document #1

Delete

Document Type * :

Confidentiality Status * :

Local File * :

Add

Select

- Altitude Kit Worksheet
- Auxiliary Emissions Control Device (AECD) Reporting Template
- Averaging, Banking, and Trading (ABT) Credit Projection Report
- Bond Worksheet
- CARB Approval of Adjustable Parameter
- CARB Executive Order
- Delegated Assembly Worksheet
- Diagnostic Trouble Codes (DTC) Worksheet
- Durability/Deterioration Factor (DF) Report
- Emission Control Information
- Engine Map Data
- Equipment Vessel Worksheet
- Field Fix Letter
- Field Testing Results
- Installation Instructions
- LSI Evaporative Design Plan (LSI Only)
- Maintenance Instructions
- Noncommercial Fuel Adjustment Instructions (LSI Only)
- Not to Exceed (NTE) Documentation
- Partially Completed Engines Worksheet
- Production Line Testing (PLT) Plan
- Running Change Letter
- Sample Label Language
- Special / Alternate Test Procedure
- Tamper Proof Mechanism Description for Adjustable Parameters
- Test Data Worksheet
- Test Fuel Specification Report
- Test Results Report
- Torque Broadcasting Document

Review & Submit

Request for Certificate

Upon completion of a dataset application, select the Request Certificate or CSI Update icon and select a Process Code. Follow the certification steps.

← Request for Certificate

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General Information

Process Code *

Industry *

Model Year (YYYY) *

Select Process Code

- Request for New Certificate
- Request for Revised Certificate
- Request for CSI Update
- Delete Request for Certificate

Next →

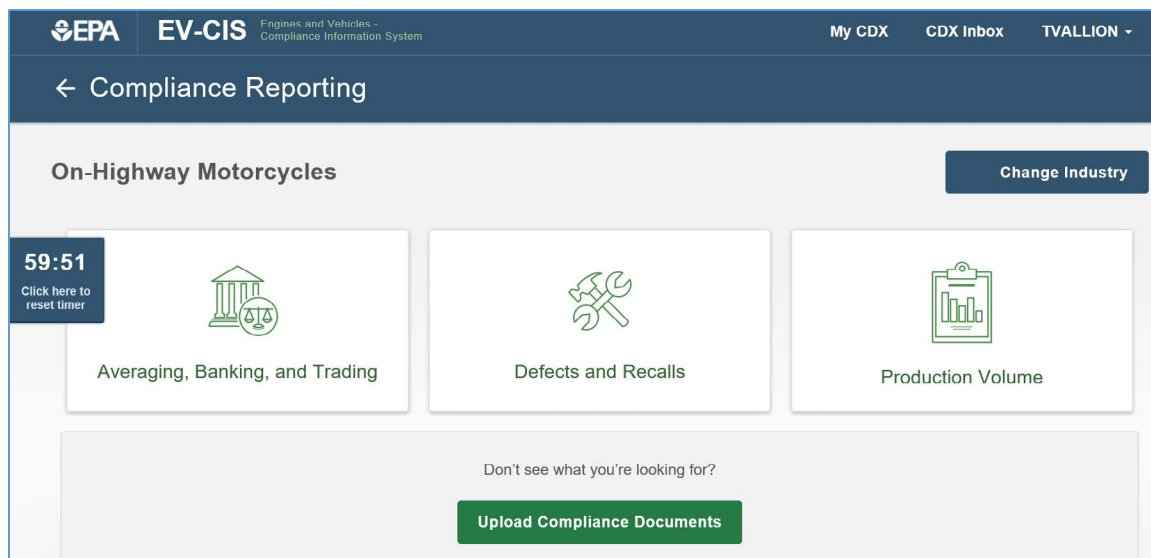
Certificate Process Codes in EV-CIS

- Select “Request for New Certificate” if you want a certificate for a Family that has not been previously certified.
- Select “Request for Revised Certificate” if any fields displayed on the certificate have changed for a certified Family.

- Select “Request for CSI Update” to update the Certificate Summary Information (or CSI) if updates are made either to:
 - the dataset application; or
 - the certification documents for a certified Family, but no changes were made to any fields displayed on the certificate.
- Select “Delete Request for Certificate” if you want to delete a certificate request. (Use this option only for a Family that has not been acted upon by EPA.)

Submitting Compliance Information in EV-CIS

On the EV-CIS home page, select the Submit Compliance Information icon and select the Compliance Reporting required for your industry sector.



Uploading Compliance Documents in EV-CIS: Document Types

Compliance reports (or documents) are required to be submitted in EV-CIS.

Select the Document Type from the menu when uploading documents in EV-CIS. Example compliance document types include:

- The Annual Production Volume Report;
- ABT reports; and
- PLT reports.

Terms & Conditions
Logout

Industry* : On-Highway Motorcycles
Compliance Program : Production Volume
Document Applicability* : Select
Engine Family/Test Group :
Evaporative/Permeation/Refueling Family :
Model Year* : 2024
2023
2022

Due to memory and file size constraints the total size of all the files to be uploaded should not exceed 100MB.

Document #1
Delete
Document Type* : Select
Production Volume Report
Confidentiality Status* : Select
Local File* : Browse...
Add

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Review & Confirm

Compliance Reporting in EV-CIS: Defects and Recalls Reporting

Defects and Recalls reporting is required for all industry sectors:

- Regulations for Defects and Recalls reporting are in 40 CFR Part 1068.501.
- Defects and Recalls reporting applies to emission-related components and systems.
- The threshold varies by production level (generally it is 2%).
- Manufacturers should report within 21 days of determining the threshold was met.

Defects and Recalls reporting is submitted via the EV-CIS Defects and Recalls Reporting Module

After a manufacturer submits a Defects and Recalls report, you can attach the applicable defect documentation to your submission.

- Include a copy of how the company will address dealer notification, technical bulletin, and other information.
 - A link to webinars on the EV-CIS Defects and Recalls module can be found on the Helpful Resources slide at the end of this tutorial.
 - Guidance Letter CD-18-01 explains module update for reporting Defects and Recalls. Guidance Letters can be found in the Document Index System.
- Manufacturers should inform the EPA certification representative when a Defects and Recalls report has been submitted.
- Select the Submit Compliance Information module on the EV-CIS home page and select the appropriate industry sector.
- Select the Defects and Recalls icon and enter the required information.

EV-CIS
Engines and Vehicles
Compliance Information System

[My CDX](#)
[CDX Inbox](#)
[TVALLION](#)

[← Compliance Reporting](#)

Small Nonroad Spark-Ignition Engines

[Change Industry](#)

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Averaging, Banking, and Trading

Defects and Recalls

Production Line Testing

Production Volume

Selective Enforcement Audit

Don't see what you're looking for?

[Upload Compliance Documents](#)

Defects and Recalls Reporting Module

The defects report is created in EV-CIS and the required defect information must be entered. Click the Create Report button to enter data in the Report Set-Up, Report Description, Report Details, and Family Model Details sections of the Defects and Recalls Reporting Module. Additional Defects and Recalls documentation may be required from your EPA certification representative.

EV-CIS
Engines and Vehicles
Compliance Information System

[My CDX](#)
[CDX Inbox](#)
[TVALLION](#)

Defects and Recalls Reporting

Home

[+ Create Report](#)

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	Report Name	Report ID	Industry	Status	Last Modified Date	Last Modified By	Creation Date	Creator
	a	EPA-DR-2019-0000182	Heavy-Duty Highway Evaporative Systems	In Progress	07/23/2019 8:32:56 AM	Amy Houlihan	07/19/2019 9:36:08 AM	Amy Houlihan
	a	EPA-DR-2019-0000183	Heavy-Duty Highway Evaporative Systems	In Progress	07/22/2019 2:26:29 PM	Amy Houlihan	07/19/2019 9:36:26 AM	Amy Houlihan
	My PFC Defect	EPA-DR-2019-0000181	Nonroad Evaporative Portable Fuel Containers	In Progress	06/26/2019 11:05:30 AM	Darryl Moses	06/26/2019 11:05:11 AM	Darryl Moses
	ABC	EPA-DR-2019-0000180	Heavy-Duty Highway Diesel Engines	In Progress	06/24/2019 2:14:38 PM	Darryl Moses	06/24/2019 2:14:38 PM	Darryl Moses

Summary of Key Points

Manufacturers are required to:

- Demonstrate your compliance with emissions standards;

- Obtain a Certificate of Conformity to sell your engines, vehicles, equipment, and evaporative components in the United States;
- Maintain your manufacturer profile information in EV-CIS; and
- Submit your required certification and compliance information in EV-CIS.

Helpful Resources

- The Electronic Code of Federal Regulations can be found at: www.ecfr.gov
- The Manufacturer Guidance Letters and the Document Index System are located at: www.epa.gov/dis
- For Certification information, Nonroad compliance reporting information and templates, On-Highway/Onroad compliance reporting information and templates, and account setup, go to: www.epa.gov/ve-certification
- For Certification fee payment go to: www.pay.gov
- EV-CIS Defects and Recalls webinars can be found at <https://www.epa.gov/ve-certification/webinars-mycdx-changes-and-new-defects-and-recalls-reporting-module>
- The EV-CIS help desk can be reached at 202-747-5320 or send an email to: evcishelpdesk@epacdx.net
- The CDX help desk can be reached at 888-890-1995 or send an email to: helpdesk@epacdx.net

This is the end of this tutorial. Thank you.