Step-By-Step EPA CDX Upload Instructions for Nonroad Engine Manufacturers

United States
Environmental Protection
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Compliance and Innovative Strategies Division
Office of Transportation and Air Quality
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Overview

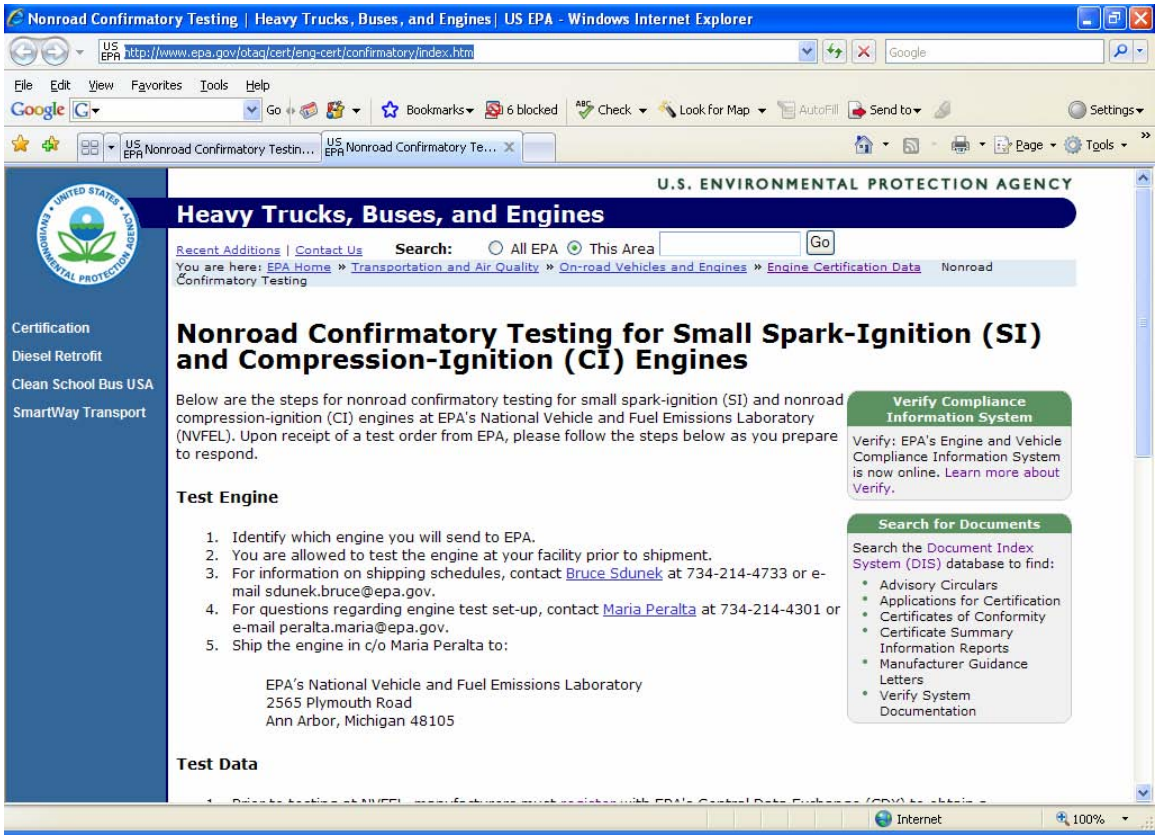
The Verify system provides a Web interface to the EPA and California Air Resources Board (CARB). Using this interface, authorized users are able to create, edit, save, load, and validate their data for submittal to EPA, once their CDX accounts have been established. Below is the CDX site link for Nonroad Confirmatory Testing for Small Spark-Ignition (SI) and Compression-Ignition (CI) Engines (http://www.epa.gov/otaq/cert/eng-cert/confirmatory/index.htm).

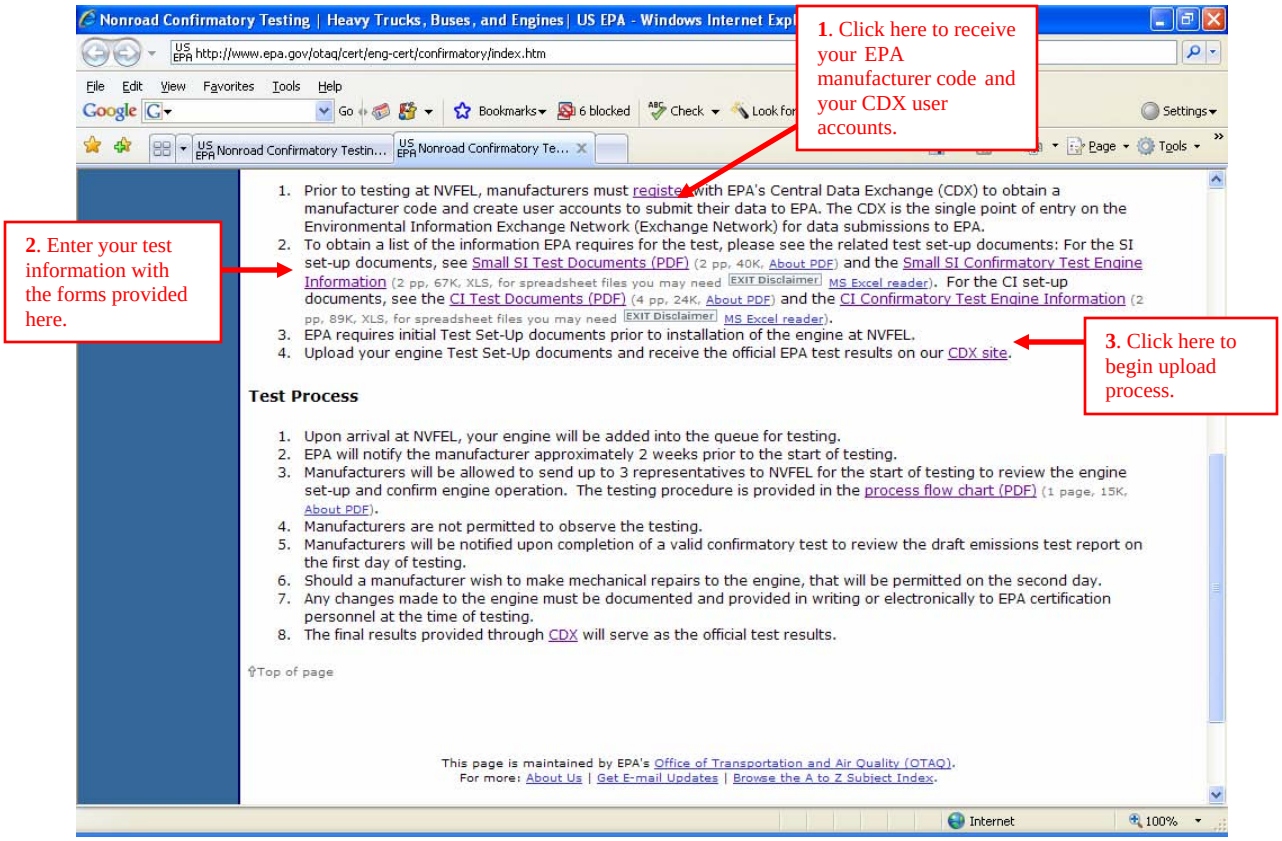
Step 1. Establish a Manufacturer Code and CDX User Account

This document provides step-by-step guidance to lead you through the necessary steps for using the Environmental Protection Agency (EPA) Verify compliance information system to submit your engine test data for the National Vehicle and Fuel Emissions Laboratory (NVFEL) engine testing program. To send documents to EPA you must first do the following:

1. Request an EPA Manufacturer Code.
2. Create CDX user accounts for everyone that will be submitting data to EPA.

Once you have your EPA manufacturer code and CDX user accounts you must complete the Small SI Confirmatory Test Engine Information for a Spark-Ignition engine or the CI Confirmatory Test Engine Information for a Compression-Ignition engine.





Step 2. Fill out Your Test Setup Data Form

Once you have established an EPA manufacturer code and a CDX user account you should begin to enter your test setup data in the provided Smart Spreadsheet (please see 2 above).

- If you are requesting testing for a Spark Ignition engine please click the link to “Small SI test Documents” and the link to Small SI Confirmatory Test Engine Information”. (See Smart Sheet page in Appendix 1)
- If you are requesting testing for a compression-ignition engine please click the link to “CI Test Documents” and “CI Confirmatory Test Engine Information”. (See Smart Sheet page in Appendix 1)

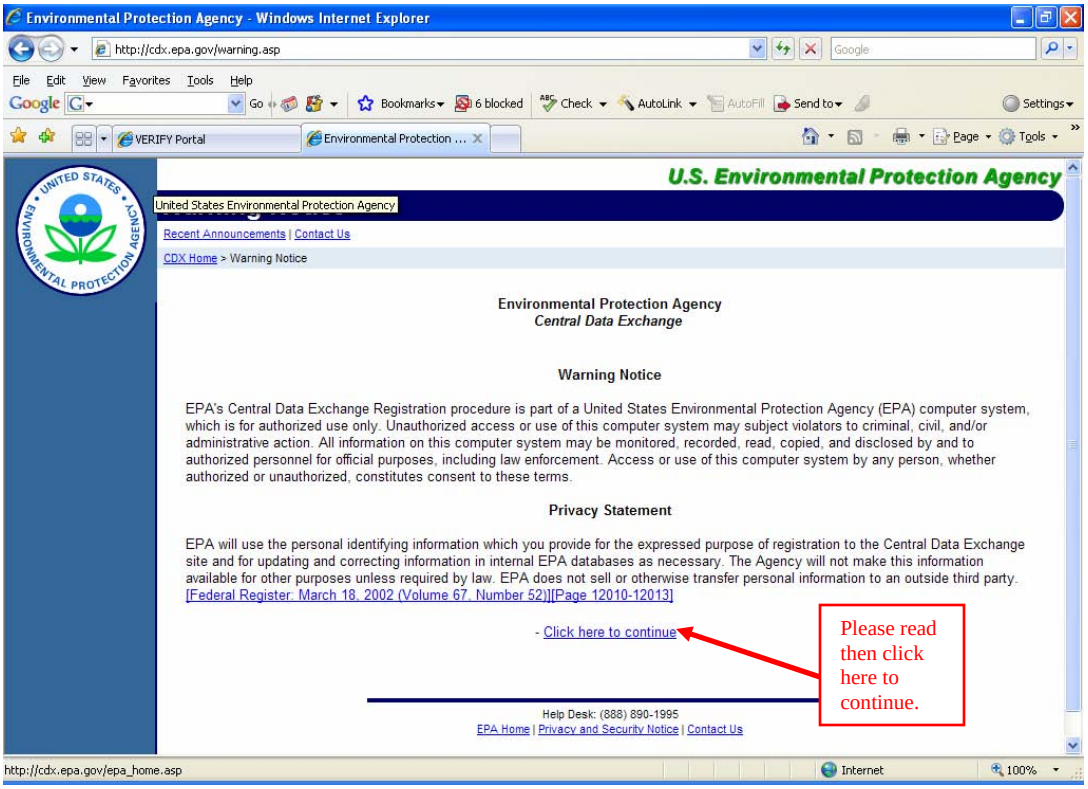
Please fill in the appropriate information in your spreadsheet.

Step 3. Log In to CDX to Upload Your Test Setup Data

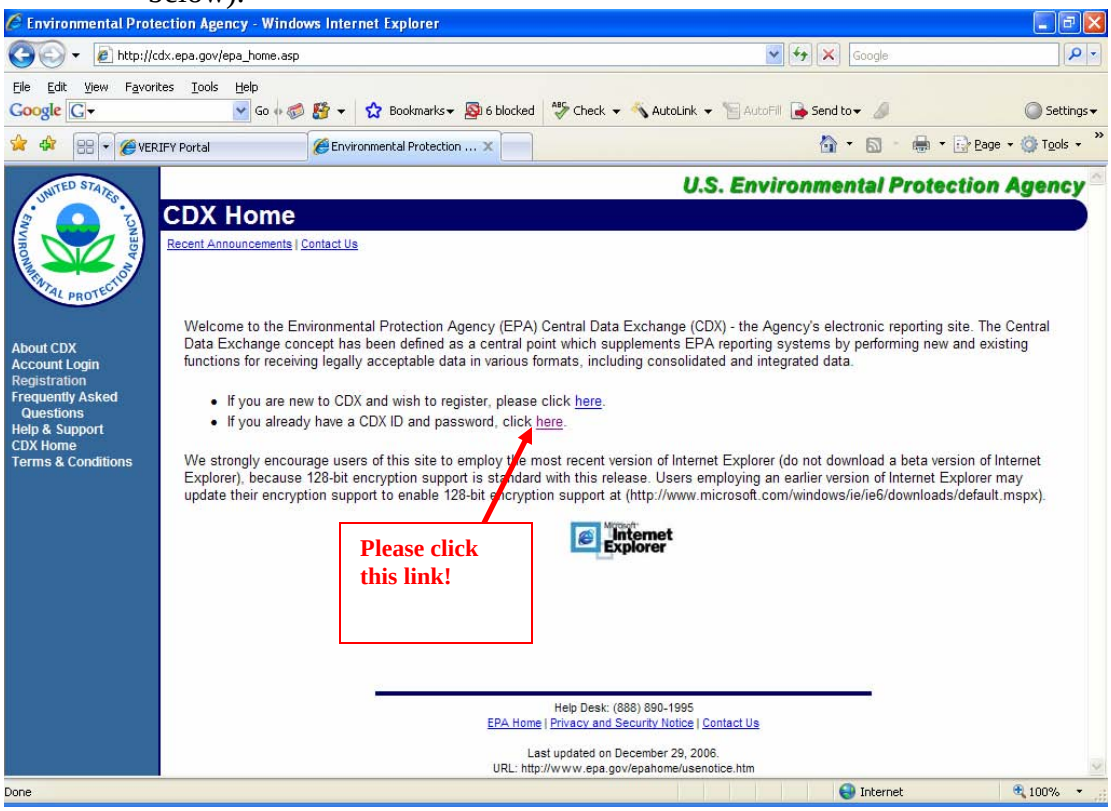
Now that the test information is complete you may send that test setup document to EPA by clicking on the “CDX site” link.

*(**Note:** You must have a manufacturer code to do business with EPA and a CDX user account to upload your information. If you do not have an EPA manufacturer code and/or a CDX user account please proceed back to step 1 above and complete your registration).*

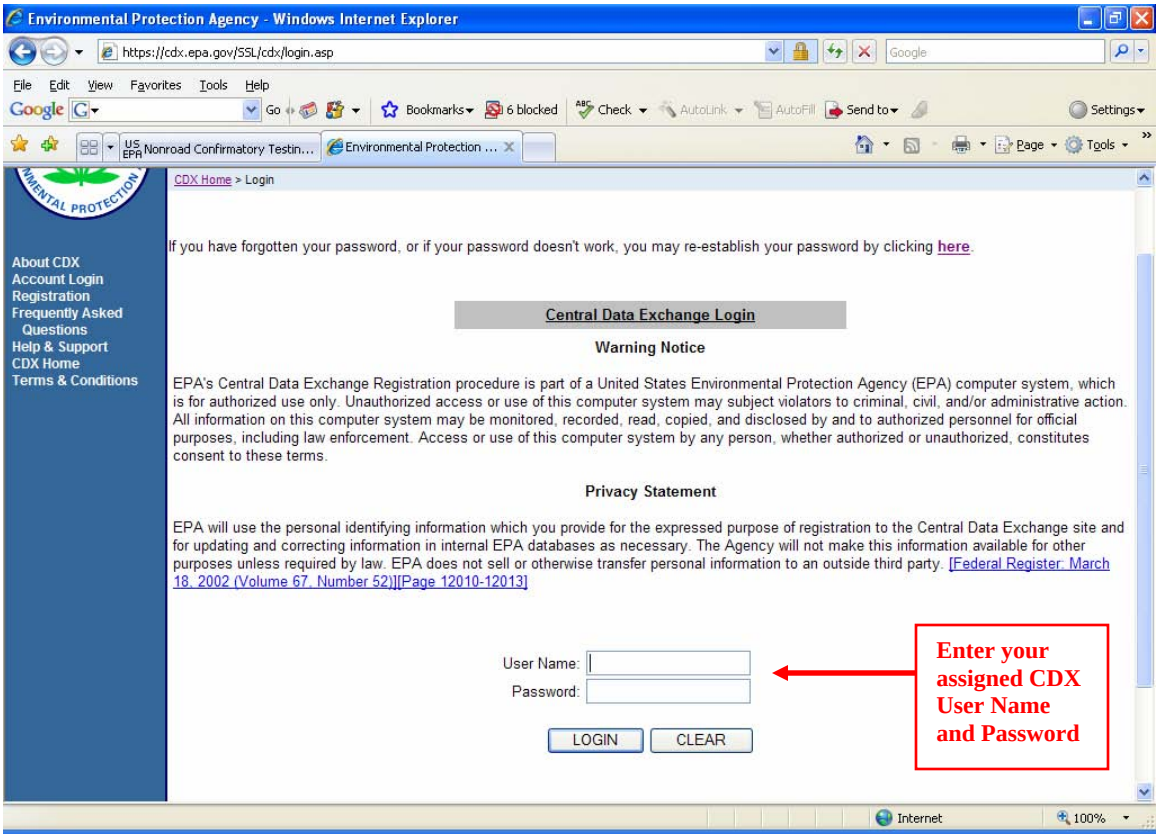
a) You will be directed to the page below. Please read the “warning” and “privacy” notices and click the “click here to continue” link. (See below).



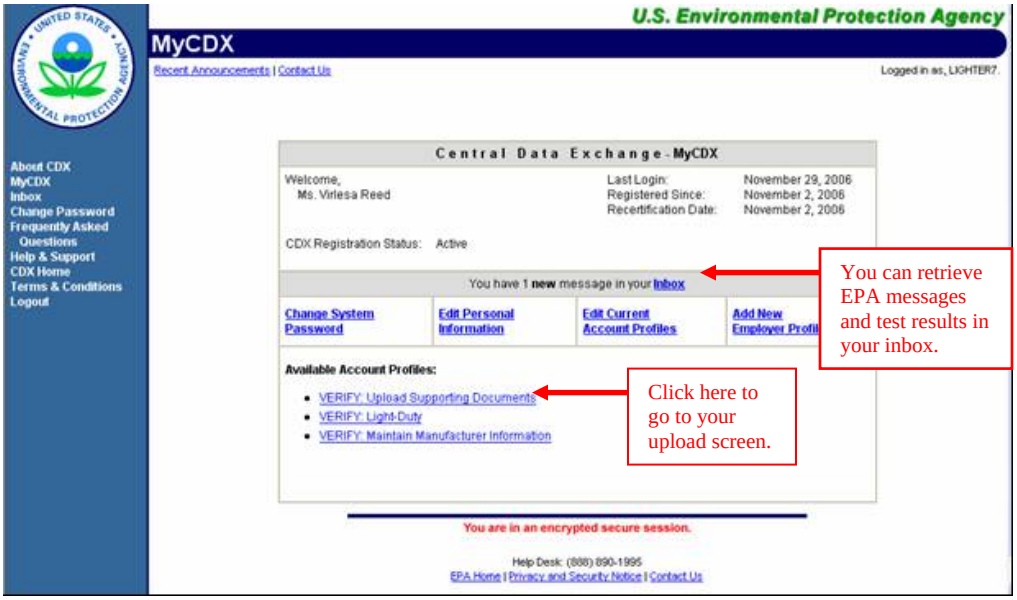
b) At this point manufacturers should have a CDX user account. You should select the link for those that already have a password and CDX user ID. (See below).

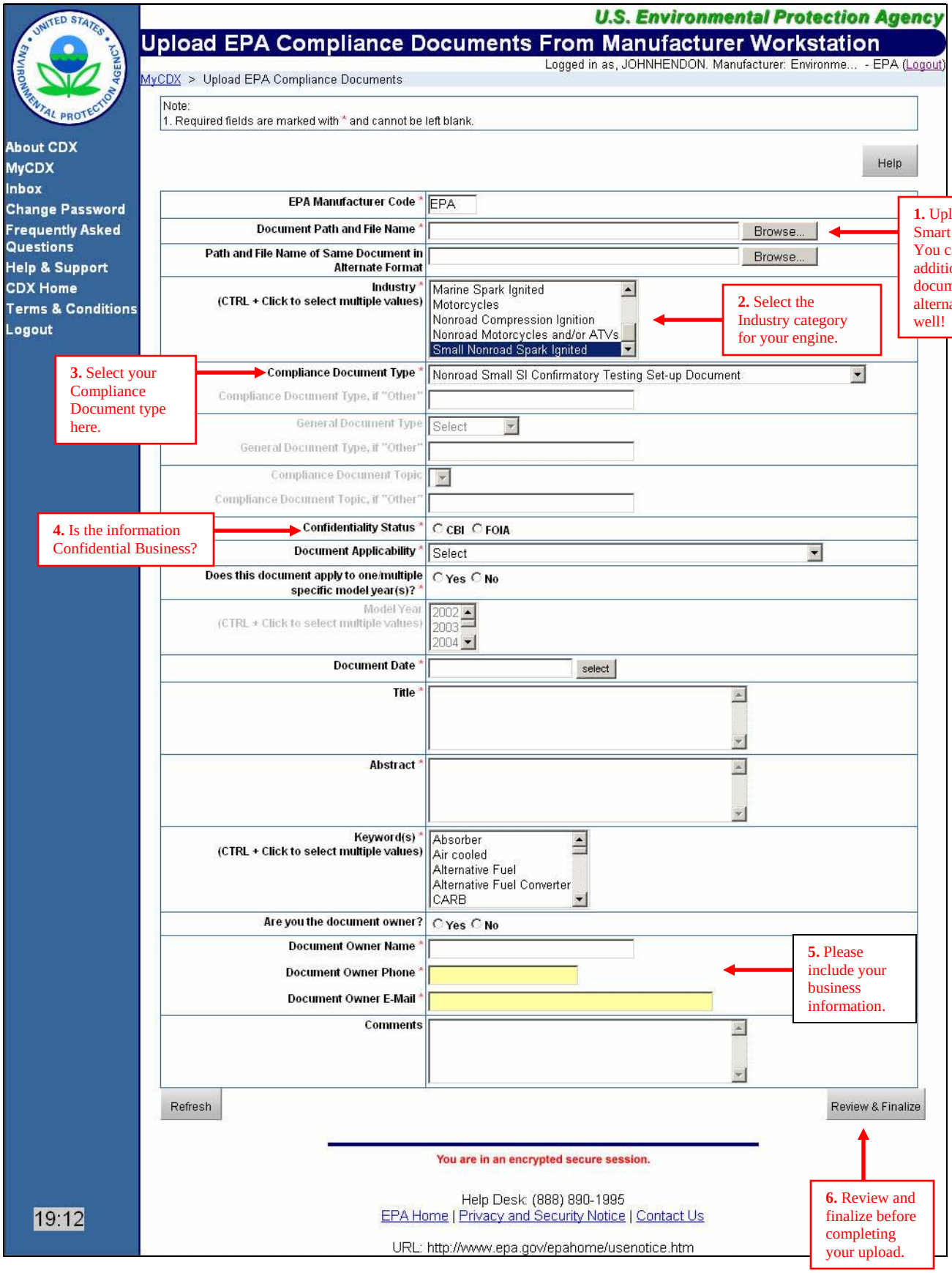


c) You will be directed to this page to enter your CDX User Name and Password. Please enter your User Name and Password to Log-in to your CDX user account.



d) You will now be directed to the entry page for My CDX. You can check your inbox for EPA messages and test results. Please select "Verify Upload Supporting Documents" to go to your upload page.




U.S. Environmental Protection Agency
Upload EPA Compliance Documents From Manufacturer Workstation
Logged in as, JOHNHENDON. Manufacturer: Environme... - EPA (Logout)
MyCDX > Upload EPA Compliance Documents
About CDX
MyCDX
Inbox
Change Password
Frequently Asked Questions
Help & Support
CDX Home
Terms & Conditions
Logout
Note:
1. Required fields are marked with * and cannot be left blank.
Help
EPA Manufacturer Code *
EPA
Document Path and File Name *
Browse...
Path and File Name of Same Document in Alternate Format
Browse...
Industry *
(CTRL + Click to select multiple values)
Marine Spark Ignited
Motorcycles
Nonroad Compression Ignition
Nonroad Motorcycles and/or ATVs
Small Nonroad Spark Ignited
Compliance Document Type *
Nonroad Small SI Confirmatory Testing Set-up Document
Compliance Document Type, if "Other"
General Document Type
Select
General Document Type, if "Other"
Compliance Document Topic
Compliance Document Topic, if "Other"
Confidentiality Status *
CBI
FOIA
Document Applicability *
Select
Does this document apply to one/multiple specific model year(s)? *
Yes
No
Model Year
(CTRL + Click to select multiple values)
2002
2003
2004
Document Date *
select
Title *
Abstract *
Keyword(s) *
(CTRL + Click to select multiple values)
Absorber
Air cooled
Alternative Fuel
Alternative Fuel Converter
CARB
Are you the document owner?
Yes
No
Document Owner Name *
Document Owner Phone *
Document Owner E-Mail *
Comments
Refresh
Review & Finalize
You are in an encrypted secure session.
Help Desk: (888) 890-1995
EPA Home | Privacy and Security Notice | Contact Us
URL: http://www.epa.gov/epahome/usenotice.htm
19:12
1. Upload your Smart Sheet here. You can upload additional documents in alternate formats as well!
2. Select the Industry category for your engine.
3. Select your Compliance Document type here.
4. Is the information Confidential Business?
5. Please include your business information.
6. Review and finalize before completing your upload.

Please follow the step-by-step walk through on the page above.

Support

There are three support options available for general and technical questions related to Verify:

1. Telephone - Call our toll-free line at (888) 890-1995 and select option 4 for technical questions regarding data or uploading your documents. Select option 5 for help with your CDX registration(i.e. userid/password) questions..

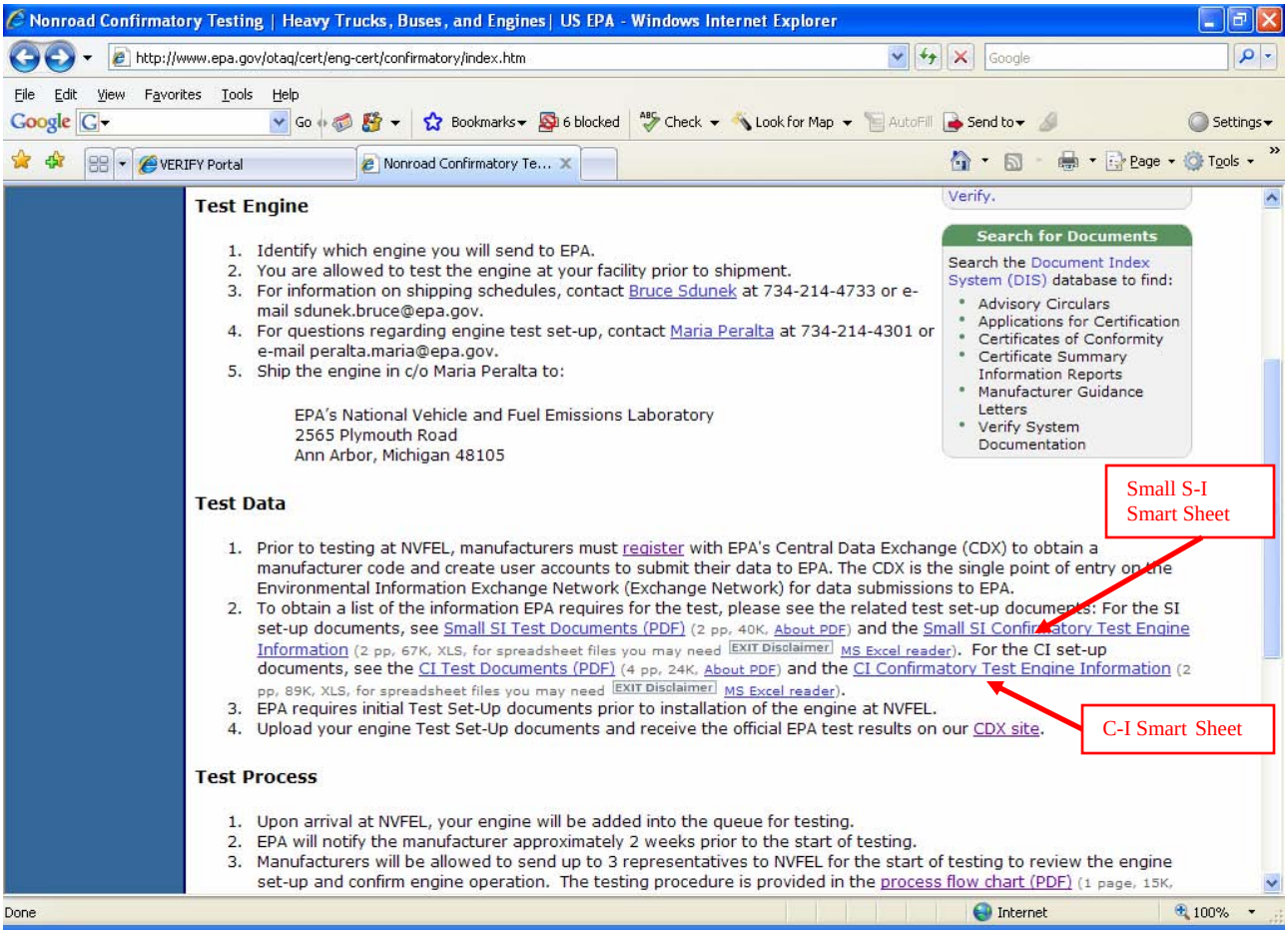
2. E-mail – Send e-mail to epacdx@csc.com for help with your CDX registration(i.e. userid/password) questions. Send an e-mail to verifyhelp@csc.com technical questions regarding data or uploading your documents.

3. Fax - Assistance with your CDX registration (i.e. userid/password) questions or requests are accepted 24 hours a day at (301) 429-3905. Support personnel will respond to faxed requests Monday - Friday from 8:00 a.m. - 6:00 p.m. (EST).

Appendix 1

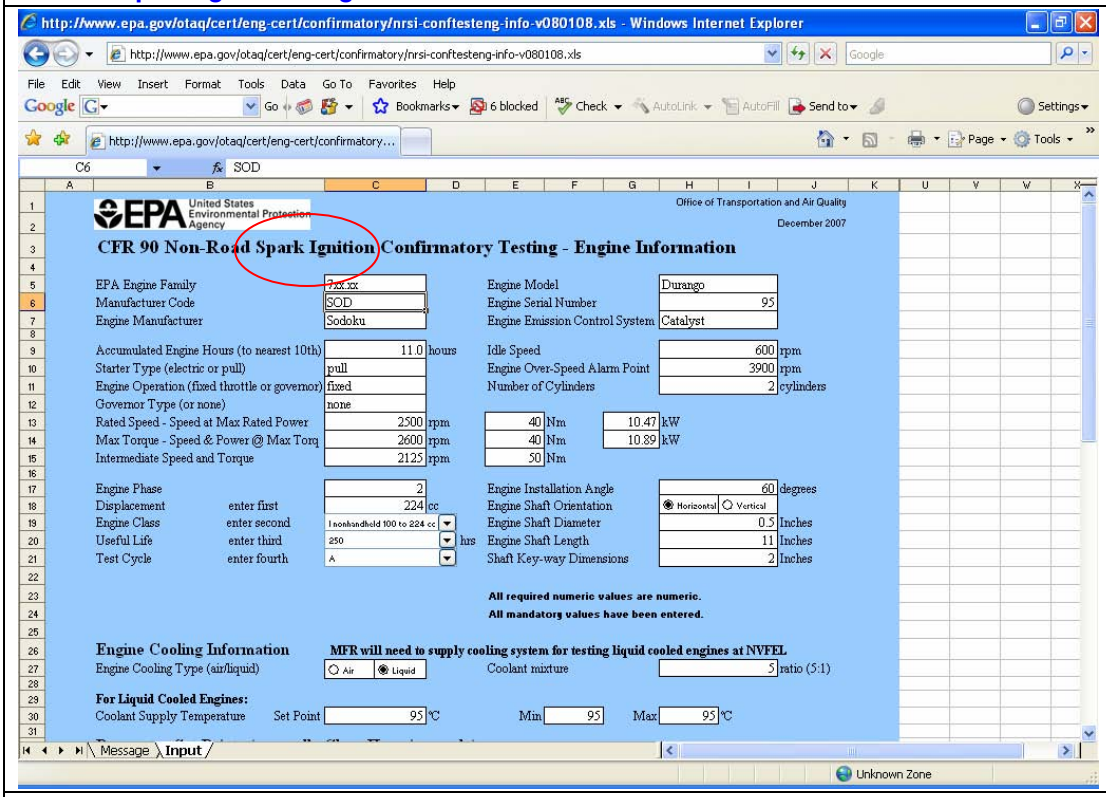
Accessing your test data Smart Spreadsheet

You may access your EPA test data Smart Sheet by clicking on the appropriate test engine link below. Manufacturers on this screen will choose either a Small Spark-Ignition engine manufacturer or a Compression-Ignition engine manufacturer for testing.



For specific examples see forms below.

1. For Spark-Ignition Engines



http://www.epa.gov/otaq/cert/eng-cert/confirmatory/nrsi-conftesteng-info-v080108.xls - Windows Internet Explorer

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CFR 90 Non-Road Spark Ignition Confirmatory Testing - Engine Information

EPA Engine Family	7xx.xx		Engine Model	Durango	
Manufacturer Code	SOD		Engine Serial Number	95	
Engine Manufacturer	Sodoku		Engine Emission Control System	Catalyst	
Accumulated Engine Hours (to nearest 10th)	11.0	hours	Idle Speed	600	rpm
Starter Type (electric or pull)	pull		Engine Over-Speed Alarm Point	3900	rpm
Engine Operation (fixed throttle or governor)	fixed		Number of Cylinders	2	cylinders
Governor Type (or none)	none				
Rated Speed - Speed at Max Rated Power	2500	rpm	40 Nm	10.47 kW	
Max Torque - Speed & Power @ Max Torq	2600	rpm	40 Nm	10.89 kW	
Intermediate Speed and Torque	2125	rpm	50 Nm		
Engine Phase	2		Engine Installation Angle	60	degrees
Displacement enter first	224	cc	Engine Shaft Orientation	Horizontal / Vertical	
Engine Class enter second	Nonhandheld 100 to 224 cc		Engine Shaft Diameter	0.5	Inches
Useful Life enter third	250	hrs	Engine Shaft Length	11	Inches
Test Cycle enter fourth	A		Shaft Key-way Dimensions	2	Inches

All required numeric values are numeric.

All mandatory values have been entered.

Engine Cooling Information

MFR will need to supply cooling system for testing liquid cooled engines at NVFEL

Engine Cooling Type (air/liquid): Air / Liquid — Coolant mixture: 5 ratio (5:1)

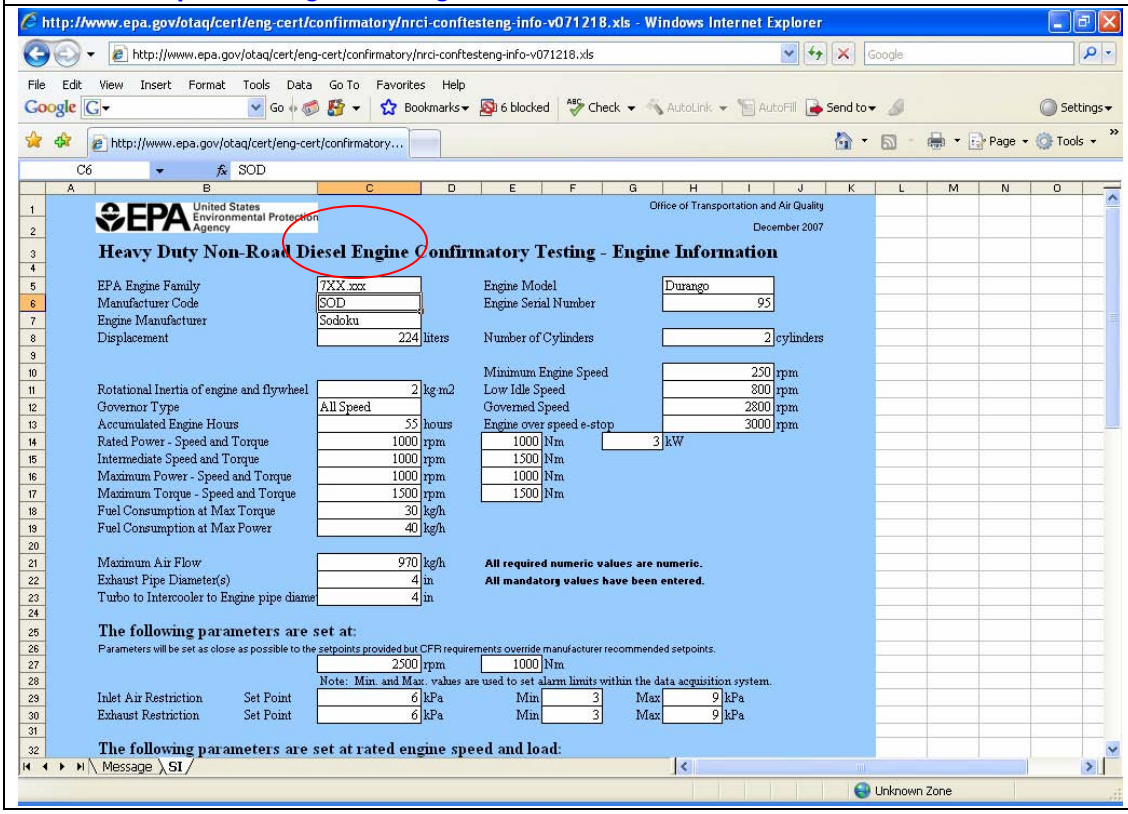
For Liquid Cooled Engines:

Coolant Supply Temperature — Set Point: 95 °C — Min: 95 — Max: 95 °C

Message | Input

Unknown Zone

2. For Compression-Ignition Engines



http://www.epa.gov/otaq/cert/eng-cert/confirmatory/nrci-conftesteng-info-v071218.xls - Windows Internet Explorer

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Heavy Duty Non-Road Diesel Engine Confirmatory Testing - Engine Information

EPA Engine Family	7XX.xxx		Engine Model	Durango	
Manufacturer Code	SOD		Engine Serial Number	95	
Engine Manufacturer	Sodoku				
Displacement	224	liters	Number of Cylinders	2	cylinders
			Minimum Engine Speed	250	rpm
Rotational Inertia of engine and flywheel	2	kg-m2	Low Idle Speed	800	rpm
Governor Type	All Speed		Governed Speed	2800	rpm
Accumulated Engine Hours	55	hours	Engine over speed e-stop	3000	rpm
Rated Power - Speed and Torque	1000	rpm	1000 Nm	3 kW	
Intermediate Speed and Torque	1000	rpm	1500 Nm		
Maximum Power - Speed and Torque	1000	rpm	1000 Nm		
Maximum Torque - Speed and Torque	1500	rpm	1500 Nm		
Fuel Consumption at Max Torque	30	kg/h			
Fuel Consumption at Max Power	40	kg/h			
Maximum Air Flow	970	kg/h	**All required numeric values are numeric.**		
Exhaust Pipe Diameter(s)	4	in	**All mandatory values have been entered.**		
Turbo to Intercooler to Engine pipe diame	4	in			

The following parameters are set at:

Parameters will be set as close as possible to the setpoints provided but CFR requirements override manufacturer recommended setpoints.

2500 rpm — 1000 Nm

Note: Min. and Max. values are used to set alarm limits within the data acquisition system.

Inlet Air Restriction	Set Point	6	kPa	Min	3	Max	9 kPa
Exhaust Restriction	Set Point	6	kPa	Min	3	Max	9 kPa

The following parameters are set at rated engine speed and load:

Message | SI

Unknown Zone