



# EMA Certification Workshop

April 15, 2008

California Environmental Protection Agency



**Air Resources Board**

# Certification Workshop Topics

- Electronic Certification
- Confirmatory Testing
- Heavy Duty Hybrid Certification
- Stationary Engine Certification
- 2010 Heavy-duty On-highway Certification
- Tier IV Nonroad Certification
- 1068 Changes and Customs Forms

# Electronic Certification

# Electronic Certification

- What is the latest schedule for implementing electronic certification by category (on-highway, nonroad, marine, locomotive, LSI, SSI, etc.)?
  - For verify, there is no schedule currently for most of the industries listed. The locomotive certification is in verify, the locomotive equipment mfrs for new rule will be expected to submit an MS excel template through the verify documents module.
- When will the XML file schema be provided for on-highway, nonroad, and marine submittals?
  - Not scheduled yet.

# Electronic Certification

## (Continued)

- Can both agencies avoid the last two quarters of any given calendar year, so as not to disrupt the annual re-certification process?
  - This can be discussed but EPA takes peak certification period in consideration for their scheduling of verify.
- Can EPA share feedback from light-duty manufacturers beta testing the VERIFY 4B release and identify changes that may be incorporated in future releases?
  - Yes, however, EPA has not deployed fully release 4b, but we have feedback from release 4a (also light-duty) and testing from release 4b IUVP module.

# Electronic Certification (Continued)

- Will manufacturers be able to view batch-load files in the same way that the cert rep. Will see it, before it's permanently loaded into EPA's and ARB's database?
  - No, EPA's assumption is if manufacturers choose the option to submit batch and do not use the web form or template provided then they will know how to view their data prior to submission.
- Will VERIFY allow alias file names as is allowed in ARB's DMS system?
  - Yes, you will be able to use the CARB naming scheme, verify renames files properly for our use according to the metadata (selected options on the verify document module).

# Electronic Certification (Continued)

- **Will manufacturers be allowed to submit a single common document to EPA that spans several families (AECD's, warranty document, etc.)?**
  - Currently, no, however we do have a change request for that pending.
- **Have the agencies considered automatic metadata assignment for each document, based on attributes already inherent to their profiles, directories, and file names to avoid a redundant and cumbersome work.**
  - EPA has considered that function, there is a pending change request that will allow you to save the metadata xml data file on your desktop and load again as needed, you will be given the opportunity to make the changes.
  - Secondly, you can create your own batch file for submission of documents using the EPA provided XML schema. These changes are also pending.

# Electronic Certification (Continued)

- **What carryover features will be included to minimize data entry for carryover families?**
  - Each industry has unique data migration, this will be decided on an industry by industry basis.
- **How have the agencies allocated resources for supporting manufacturer's transition to electronic submissions?**
  - Additional clarification is needed, however general support and Qs and as can be addressed.
  - EPA does not plan to provide extensive support of all of a given manufacturer's transition issues.
- **What is Cromerr?**
  - This is a new requirement for how the agency collects information.
  - New guidance will soon be available, however the locomotive and HD in-use that already use verify, have growing familiarity with the process.
  - It will require high level corporate sign-offs to help ensure information security.



# Using EPA's Verify Information System

EPA Office of Transportation and Air Quality

EMA Certification Workshop  
April 15, 2008



# Presentation Overview

- Steps for Doing Business with EPA's Office of Transportation and Air Quality
- Request a Manufacturer Code
- Information Systems for Certifying Engines, Vehicles, and Equipment
- Using the Verify Information System

# Steps for Doing Business with OTAQ

1. Request and obtain a manufacturer code
2. Determine which compliance information system your industry currently uses
  - Verify
  - Engine Information Management System (IMS)
3. If Verify, register users / obtain user accounts
4. Submit information
  - Nonroad compression-ignition and small spark-ignition confirmatory test data submission is the focus of the presentation



# Request a Manufacturer Code

- What is an EPA manufacturer code?
  - It's a three character sequence that's used in each certified engine family name
  - All companies that plan to certify vehicles or engines with EPA must have one
  - Only one manufacturer code is assigned to each company, even if that company plans to certify products within multiple industries
- How to get one:
  - One person from your company must register and create a temporary user account with the Agency's Central Data Exchange (CDX)
  - This account is only used for obtaining a manufacturer code

# Request a Manufacturer Code: CDX User Registration Screens

Registration

[Recent Announcements](#) | [Contact Us](#)

[CDX Home](#) > Registration

**CDX Registration: User Information**

Use the TAB key to move from field to field. \* = REQUIRED FIELD

First Name:  \*  
Last Name:  \* Suffix:

Please choose a user name and password—the password must be at least 8 characters long and contain at least one number. Both passwords and user names are restricted to alpha-numeric characters and may not begin with a number or contain spaces or symbols, e.g. \$ # . " or @. Your user name should not be a part of your password. If you enter a user name which is in use, you will be asked to select a new user name.

User Name:  \*  
(More than 7 characters; Don't use \$ # . " or @)

Password:  \*  
Re-enter Password:  \*  
(More than 7 characters w/1 number; Don't use \$ # . " or @)

The Help Desk will use the Secret Question and Answer to authenticate you if you forget your password. Please enter a secret question which has relevance to you and has an answer which is not easily guessed by others.

Secret Question:  \*  
Secret Answer:  \*

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You are in an encrypted secure session.

Help Desk: (888) 890-1995  
[EPA Home](#) | [Privacy and Security Notice](#) | [Contact Us](#)

Last updated on October 27, 2006.  
URL: <http://www.epa.gov/epahome/usenotice.htm>

# Request a Manufacturer Code: CDX User Registration Screens

At the “CDX Registration: Add Program screen”, select “**Request Manufacturer Code for OTAQ Compliance (VERIFY MFR REG)**”

The screenshot shows the EPA's CDX Registration: Add Program screen. The page title is "CDX Registration: Add Program". The left sidebar contains the EPA logo and navigation links: "About CDX", "Account Login", "Registration", "Frequently Asked Questions", "Help & Support", "CDX Home", and "Terms & Conditions". The main content area lists various programs with radio buttons:

- Assessment Cleanup and Redevelopment Exchange System (ACRES):
- Environmental Appeals Board (EAB):
- Electronic Inventory Update Reporting (EIUR):
- Facility Registry System - Update Service (FRS-US):
- Lead-Based Paint Activities (LEAD):
- LT2: LT2, Stage 2, and IDSE Plan/Report Entry (LT2):
- Ozone Depleting Substances (ODS):
- Radionuclide NESHAPs (RAD):
- Stormwater Notice of Intent (eNOI) (SWENOI):
- Toxic Release Inventory Made Easy Web (Approved Pilot Submitters ONLY) (TRIMEweb):
- Toxic Substance Control Act - HaSD Form (TSCA-HASD):
- Compliance Information Systems (VERIFY):
- Request Manufacturer Code for OTAQ Compliance (VERIFY MFR REG):**
- Water Contaminant Information Tool (WCIT):

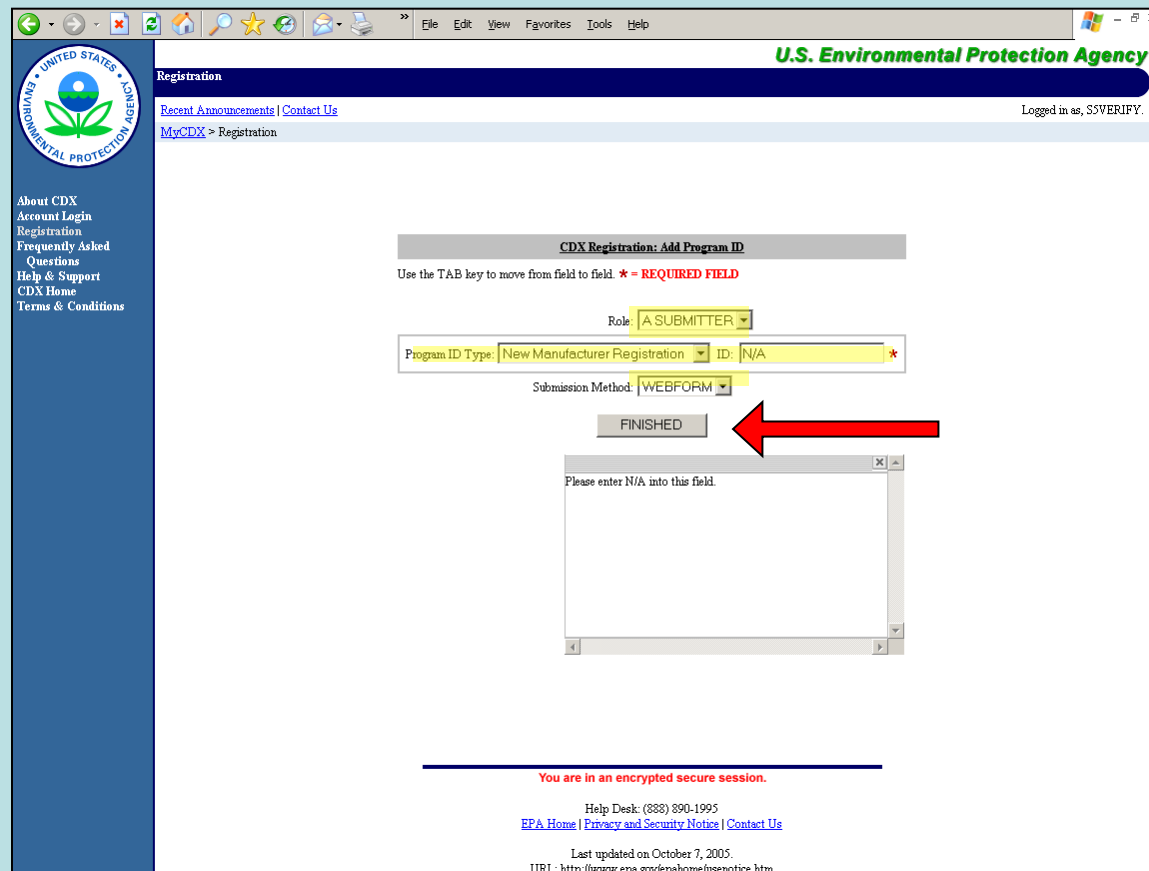
At the bottom right, there is a "Next>>" button. A red arrow points to the "Request Manufacturer Code for OTAQ Compliance (VERIFY MFR REG)" option, and another red arrow points to the "Next>>" button.

At the bottom of the page, there is a security notice: "You are in an encrypted secure session." followed by contact information: "Help Desk: (888) 890-1995", "EPA Home | Privacy and Security Notice | Contact Us", and "Last updated on March 9, 2001. URL: http://www.epa.gov/enahome/bsenotice.htm".

# Request a Manufacturer Code: CDX User Registration Screens

At the “CDX Registration: Add Program ID screen”, enter the value specified below.

- Role = **“A SUBMITTER”**
- Program ID Type = **“New Manufacturer Registration”**
- ID = **“N/A”**
- Submission Method = **“WEBFORM”**



# Request a Manufacturer Code: MyCDX

From your MyCDX home page, click on the “**VERIFY MFR REG: Request Manufacturer Code for OTAQ Compliance**”

The screenshot shows the MyCDX web application interface. The browser window title is "U.S. Environmental Protection Agency". The page header includes "MyCDX" and "Recent Announcements | Contact Us". The user is logged in as "S5VERIFY".

The main content area is titled "Central Data Exchange - MyCDX". It displays a welcome message for "Mr. S Somoza" and shows account details: "Last Login: November 20, 2006", "Registered Since: November 20, 2006", and "Recertification Date: November 20, 2006". The "CDX Registration Status" is "Active".

Below the account details, there is a notification: "You have 1 new message in your [Inbox](#)".

There are four links in a row: [Change System Password](#), [Edit Personal Information](#), [Edit Current Account Profiles](#), and [Add New Employer Profile](#).

The "Available Account Profiles:" section contains a single link: [VERIFY MFR REG: Request Manufacturer Code for OTAQ Compliance](#). A red arrow points to this link.

At the bottom of the page, there is a security notice: "You are in an encrypted secure session." followed by contact information: "Help Desk: (888) 890-1995", "EPA Home | [Privacy and Security Notice](#) | [Contact Us](#)", and "Last updated on April 27, 2006." The URL is "http://www.epa.gov/epahome/usernotice.htm".



# Request a Manufacturer Code: Manufacturer Information Screen

On the Manufacturer Information screen, fill in all applicable fields about your company.

The screenshot shows the 'Request for EPA Manufacturer Code' form for 'Manufacturers'. The form is titled 'Request for EPA Manufacturer Code' and is for 'Manufacturers'. It includes a navigation menu on the left with links like 'About CDA', 'EPCRA', 'Phase 1/2/3', 'Request for EPA Manufacturer Code', 'Help & Support', 'FAQ', 'Home', and 'Terms & Conditions'. The main form area is titled 'Manufacturer Information' and contains the following sections:

- Manufacturer Information:** Fields for 'Manufacturer Short Company Name' and 'Manufacturer Full Company Legal Name'. A 'Help' button is located to the right.
- Industries:** A grid of checkboxes for various vehicle and equipment categories, including Aircraft, Complete Heavy-Duty Highway Vehicle, Heavy-Duty Highway Spark Ignited, Heavy-Duty Highway Compression Ignited, ICI, Large Nonroad Spark Ignited, Marine Spark Ignited, Off-Highway Motorcycle, Small Nonroad Spark Ignited, All Terrain Vehicle, Light-Duty Vehicle & Truck, Heavy-Duty Highway Gas Engine, Highway Motorcycle, Independent Test Lab, Locomotive, Marine D/O, Nonroad Compression Ignited, and Recreational Vehicle - Snowmobile.
- Domestic/Export:** A dropdown menu labeled 'Select'.
- Company Address:** Fields for 'Address, First Line', 'Address, Second Line', 'Address, Third Line', 'Address, Fourth Line', 'City', 'Address Type' (with radio buttons for 'United States' and 'Other'), 'State' (dropdown), 'Zip Code', 'State', 'Country', and 'Postal Code'.
- Country:** A dropdown menu labeled 'Select'.
- Category Type:** A dropdown menu labeled 'Select'.
- Industries:** A dropdown menu labeled 'Select'.
- Prefix:** A dropdown menu labeled 'Select'.
- First Name:** Text field.
- Middle Initial:** Text field.
- Last Name:** Text field.
- Suffix:** A dropdown menu labeled 'Select'.
- Title:** Text field.
- Primary Email Address:** Text field.
- Secondary Email Address:** Text field.
- Phone Number #1 (Clear):** Text field.
- Phone Type:** A dropdown menu labeled 'Select'.
- Add Phone Number:** Button.
- Division Short Name:** Text field.
- Division Full Name:** Text field.
- Add Additional Division:** Button.
- Comments:** A text area with a note: 'If the company being registered already has a manufacturer code, please include it here and ask that the same code be assigned. E.g. "Our manufacturer code is XYZ. Please assign this company this manufacturer code."'.

At the bottom right of the form, there is a 'Review & Submit' button, which is highlighted by a red arrow.

# Request a Manufacturer Code: Confirmation of Your Request

The confirmation page will summarize your request that was submitted to EPA for processing. You can print this page for your records.

You will receive a notification in your MyCDX Inbox stating that your submission was sent to EPA for processing.

The screenshot shows a web browser window displaying the EPA MyCDX 'Review' page. The page title is 'U.S. Environmental Protection Agency' and the breadcrumb trail is 'MyCDX > Request for EPA Manufacturer Code > Review > Success'. The user is logged in as 'S5VERIFY' with manufacturer 'Me - N/A'. The main content area contains the following text:

EPA makes every effort to process a Request for EPA Manufacturer code in a maximum of two business days. Please log back in to CDX and check your Inbox (link at left of screen) for status updates concerning your request. If you do not receive an answer within two business days, please call the CDX Help Desk at 1-888-890-1995 or epacdx@esc.com.

Your New EPA Manufacturer code Request has been submitted to the EPA.

If you have any questions, you can contact the EPA at:  
Environmental Protection Agency  
Office of Transportation and Air Quality  
US EPA  
2000 Traverwood Drive  
Ann Arbor, MI 48105

Below the text is a table with the following details:

Details
Date: 11/20/2006
Industry: Light-Duty Vehicle & Truck
Compliance Module: Manufacturer Information

At the bottom of the table are links for [Verify Home \(CDX\)](#) and [Print](#).

At the bottom of the page, there is a red message: 'You are in an encrypted secure session.' Below this are links for 'Help Desk: (888) 890-1995', 'EPA Home | Privacy and Security Notice | Contact Us', and the URL: 'http://www.epa.gov/epahome/usenotice.htm'.



# OTAQ Compliance Information Systems for Engines, Vehicles, and Equipment

- Verify information system
  - Covers the following industries and processes:
    - Motorcycle/ATV certification
    - Locomotive certification
    - Heavy-duty highway engines in-use
    - Light-duty (certification, confirmatory test, in-use, and fuel economy all under development)
  - Information collected via web forms, batch file upload, or machine-to-machine
- Engine Information Management System (IMS)
  - Covers all other industries not in Verify
  - Information collected via FileMaker Pro templates
- Both systems handle small spark-ignition and nonroad compression-ignition industries
  - Verify for confirmatory testing
  - IMS for certification

# Using the Verify Information System

- Once your company has requested and received its EPA manufacturer code, it must then register individual users to submit information to the Agency
- Note that new requirements for all Verify users will soon apply
  - Requirements are part of the Agency's Cross Media Electronic Reporting Rule (CROMERR) (70 FR 59848, October 13, 2005)
  - Implementation by October for those industries already using Verify for certification and in-use
  - Later as industries transition to the Verify system
  - More information will soon be available via guidance and our web site

# Using Verify: Creating Verify User Accounts via CDX

- An approving official from your company must
  - Send a Sponsor letter to EPA that identifies all users who are authorized to submit information to the Verify system for your company. For security reasons, this letter must
    - Be on company letterhead;
    - State the 3-character manufacturer code that EPA assigned to your company;
    - Be signed by a manager or other company-authorized representative that can be authenticated
    - Be saved in PDF format (.pdf).
    - List industries you are requesting;
  - Send a Completed Pre-Registration User Information Form
  - The sponsor letter and Pre-Registration form must be e-mailed to [verify@epa.gov](mailto:verify@epa.gov)
- Each user that will submit compliance information to Verify for your company must have his/her own (CDX) Verify user account.
- Each (CDX) Verify user account will only be allowed to submit information for one manufacturer code.
- EPA will review the Sponsor letter and list of users and will forward the information for all approved users to the CDX helpdesk.
- Each approved user will receive an email from CDX that will instruct the user to call the CDX Help Desk at the phone number provided in the email (i.e., (888) 890-1995).
- The CDX helpdesk will provide each user with a customer retrieval key (CRK) needed in order to finish the user account registration process.

# Using Verify: Pre-Registration User Information Form

Microsoft Excel - user\_registration\_form\_cdx.xls

Pre-Registration Form for Users of EPA Verify Data Submission System

Please email the following two documents to EPA at: [verify@epa.gov](mailto:verify@epa.gov)

(1) A PDF copy of your company's Sponsor Letter on company letterhead that is signed by the compliance manager. This letter must include the applicable 3-character manufacturer code assigned to your company by EPA and must list all users that are authorized to submit data for this manufacturer code; and

(2) this pre-registration form with information about each user that is to have a Verify user account. If additional registrants are needed, copy and paste the tables as needed.

Notes:

1 A: Under "Applications requested for this user", please write "Yes" next to all those industries your company participates in, and ONLY those industries. This list

2 **EPA Manufacturer Code (3-character mfr code used in engine family & test group names):**

Registrant 1		Registrant 1 Applications requested for this user		
Prefix (Dr./Mr./Mrs./Ms)		Compliance Module		
6	First name	Edit Manufacturer Information	Yes	No
7	Last Name	View Manufacturer Information	Yes	
8	Suffix (Jr/Sr/III/IV)	Heavy-Duty In-Use Testing		
9	Organization Name	Light-Duty Compliance		
10	Mailing Address 1	Locomotive Certification		
11	Mailing Address 2	MC/ATV Certification		
13	City	Upload Compliance Documents	Yes	
14	State			
15	Zip/Postal Code			
16	Country			
17	E-mail			
18	Phone Number			
19				
Registrant 2		Registrant 2 Applications requested for this user		
21	Prefix (Dr./Mr./Mrs./Ms)	Compliance Module		
22	First name	Edit Manufacturer Information	Yes	No
23	Last Name	View Manufacturer Information	Yes	
24	Suffix (Jr/Sr/III/IV)	Heavy-Duty In-Use Testing		
25	Organization Name	Light-Duty Compliance		
26	Mailing Address 1	Locomotive Certification		
27	Mailing Address 2			

Ready NUM

# Using Verify: CDX Login

- To submit your documents go to <http://cdx.epa.gov>
- Use the userid and password provided by the CDX helpdesk to log in.

The screenshot shows a Microsoft Internet Explorer browser window with the address bar set to <http://cdx.epa.gov/warning.asp>. The page title is "Warning Notice" and it features the EPA logo on the left. The main content area is titled "Environmental Protection Agency Central Data Exchange" and contains a "Warning Notice" section. The notice states that the EPA's Central Data Exchange Registration procedure is for authorized use only and that unauthorized access may result in criminal, civil, and/or administrative action. It also includes a "Privacy Statement" section, which explains that EPA will use personal identifying information for registration and database updates, and that it will not transfer this information to third parties. At the bottom of the page, there is a "Click here to continue" link and contact information for the EPA Help Desk.

Environmental Protection Agency  
Central Data Exchange

**Warning Notice**

EPA's Central Data Exchange Registration procedure is part of a United States Environmental Protection Agency (EPA) computer system, which is for authorized use only. Unauthorized access or use of this computer system may subject violators to criminal, civil, and/or administrative action. All information on this computer system may be monitored, recorded, read, copied, and disclosed by and to authorized personnel for official purposes, including law enforcement. Access or use of this computer system by any person, whether authorized or unauthorized, constitutes consent to these terms.

**Privacy Statement**

EPA will use the personal identifying information which you provide for the expressed purpose of registration to the Central Data Exchange site and for updating and correcting information in internal EPA databases as necessary. The Agency will not make this information available for other purposes unless required by law. EPA does not sell or otherwise transfer personal information to an outside third party. [[Federal Register: March 18, 2002 \(Volume 67, Number 52\)\] \[Page 12010-12013\]](#)

- [Click here to continue](#) -

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Help Desk: (888) 890-1995  
[EPA Home](#) | [Privacy and Security Notice](#) | [Contact Us](#)

Last updated on January 30, 2008.  
URL: <http://www.epa.gov/epahome/usenotice.htm>

# Using Verify: MyCDX

- To submit your documents click on **Verify: Upload Supporting Documents**
- To retrieve transaction information or test results click on **Inbox**

The screenshot displays the MyCDX interface for a user named Ms. Virlesa Reed. The page header includes the EPA logo and the text "U.S. Environmental Protection Agency". The main content area is titled "Central Data Exchange - MyCDX" and shows the user's last login, registration date, and recertification date. A notification bar indicates "You have 1 new message in your [Inbox](#)". Below this, there are four buttons: "Change System Password", "Edit Personal Information", "Edit Current Account Profiles", and "Add New Employer Profile". A section titled "Available Account Profiles:" lists three options: "VERIFY: Upload Supporting Documents", "VERIFY: Light-Duty", and "VERIFY: Maintain Manufacturer Information". A red arrow points to the "Inbox" link, and another red arrow points to the "VERIFY: Upload Supporting Documents" link. The footer contains a security notice, help desk contact information, and links to the EPA Home, Privacy and Security Notice, and Contact Us.

**U.S. Environmental Protection Agency**

**MyCDX**

[Recent Announcements](#) | [Contact Us](#)

Logged in as, LIGHTER7.

**Central Data Exchange - MyCDX**

Welcome, Ms. Virlesa Reed

Last Login: November 29, 2006  
Registered Since: November 2, 2006  
Recertification Date: November 2, 2006

CDX Registration Status: Active

You have 1 new message in your [Inbox](#)

[Change System Password](#) | [Edit Personal Information](#) | [Edit Current Account Profiles](#) | [Add New Employer Profile](#)

**Available Account Profiles:**


- [VERIFY: Upload Supporting Documents](#)
- [VERIFY: Light-Duty](#)
- [VERIFY: Maintain Manufacturer Information](#)

You are in an encrypted secure session.

Help Desk: (800) 890-1995  
[EPA Home](#) | [Privacy and Security Notice](#) | [Contact Us](#)



# Using Verify: Document Submission

**U.S. Environmental Protection Agency**

**Upload EPA Compliance Documents From Manufacturer Workstation**

MyCDX > Upload EPA Compliance Documents Logged in as, JOHNHENDON, Manufacturer: Environme... - EPA (Logout)

Note:  
1. Required fields are marked with \* and cannot be left blank.

[Help](#)

<b>EPA Manufacturer Code *</b>	EPA
<b>Document Path and File Name *</b>	<input type="text"/> <a href="#">Browse...</a>
<b>Path and File Name of Same Document in Alternate Format</b>	<input type="text"/> <a href="#">Browse...</a>
<b>Industry *</b> (CTRL + Click to select multiple values)	Marine Spark Ignited Motorcycles Nonroad Compression Ignition Nonroad Motorcycles and/or ATVs Small Nonroad Spark Ignited
<b>Compliance Document Type *</b>	Nonroad Small SI Confirmatory Testing Set-up Document
Compliance Document Type, if "Other"	<input type="text"/>
General Document Type	Select
General Document Type, if "Other"	<input type="text"/>
Compliance Document Topic	<input type="text"/>
Compliance Document Topic, if "Other"	<input type="text"/>
<b>Confidentiality Status *</b>	<input type="radio"/> CBI <input type="radio"/> FOIA
<b>Document Applicability *</b>	Select
<b>Does this document apply to one/multiple specific model year(s)? *</b>	<input type="radio"/> Yes <input type="radio"/> No
Model Year (CTRL + Click to select multiple values)	2002 2003 2004
<b>Document Date *</b>	<input type="text"/> <a href="#">select</a>
<b>Title *</b>	<input type="text"/>
<b>Abstract *</b>	<input type="text"/>
<b>Keyword(s) *</b> (CTRL + Click to select multiple values)	Absorber Air cooled Alternative Fuel Alternative Fuel Converter CARB
<b>Are you the document owner? *</b>	<input type="radio"/> Yes <input type="radio"/> No
<b>Document Owner Name *</b>	<input type="text"/>
<b>Document Owner Phone *</b>	<input type="text"/>
<b>Document Owner E-Mail *</b>	<input type="text"/>
<b>Comments</b>	<input type="text"/>

[Refresh](#) [Review & Finalize](#)

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You are in an encrypted secure session.

19:12

Help Desk: (888) 890-1995  
[EPA Home](#) | [Privacy and Security Notice](#) | [Contact Us](#)

URL: <http://www.epa.gov/epahome/usenotice.htm>

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# Support

- Telephone - (888) 890-1995
  - Option 4 for technical questions regarding data or uploading your documents
  - Option 5 for help with your CDX registration (user ID/password) questions
- E-mail
  - [verifyhelp@csc.com](mailto:verifyhelp@csc.com) for technical questions regarding data or uploading your documents
  - [epacdx@csc.com](mailto:epacdx@csc.com) for help with your CDX registration (user ID/password) questions
- Questions regarding the Small SI or CI Confirmatory Test Engine Information set-up documents
  - contact your Certification Representative

# Websites

- Nonroad Confirmatory Testing
  - <http://epa.gov/otaq/cert/eng-cert/confirmatory/>
- Verify
  - <http://epa.gov/otaq/verify/>
- CDX
  - <http://cdx.epa.gov>

# ARB's Electronic Certification System

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2008 EMA Certification Workshop  
April 15, 2008



California Environmental Protection Agency

 **Air Resources Board**

# ARB's Document Management System (DMS)

## AGENDA

- What has changed?
- What is next?
  - Manufacturers
  - ARB

# DMS - What has changed?

- Faster DMS access

- |             | 2007  | 2008   |
|-------------|-------|--------|
| DMS Users   | 749   | 1,100  |
| Directories | 534   | 615    |
| Documents   | 7,199 | 21,296 |

# DMS

## Rename workflow

The screenshot displays the OpenEDMS 3.8 web application interface. At the top, there is a search bar with 'Documents' selected and 'by All'. Below the search bar are navigation tabs for 'Documents', 'Workflows', 'Mail Box', 'News Board', and 'Calendar'. Underneath, there are sub-tabs for 'Pending Process', 'Finished Process', and 'Submit New Documents'. A date filter section includes 'Start Date: From' and 'End Date: From' fields, each with a calendar icon and a 'Reset' button. The 'Process' dropdown is set to 'SIME'. A table lists three workflow entries:

Process	Workflow	User Name	Login ID	Start Date	
2008_SIME_MXXX_LAB	SIME--Approval of Certification Support Documents (ver 43.0)	Mfr XXX	mfrxxx	Apr 3, 2008	
SIME DFP Test - ig	Test SIME--Approval of Certification Support Docs (ver 2.0)	Mfr XXX	mfrxxx	May 8, 2007	
SIME_2007_XXX_LAB	Test SIME--Approval of Certification Support Docs (ver 1.0)	Mfr XXX	mfrxxx	Sep 18, 2006	

At the bottom of the main interface, the user is identified as 'Mfr XXX @ ARB\_OFF\_ROAD' and the page size is set to 30. An inset window titled 'Rename Workflow Process' is overlaid on the right side. It shows the 'Rename - 2008\_SIME\_MXXX\_LAB' dialog with the 'Name' field containing '2008\_SIME\_MXXX\_WVAR' and buttons for 'Update', 'Reset', and 'Close'. The browser's address bar shows 'https://secure.arb.ca.gov - OpenEDMS - Ren...'. The Windows taskbar at the bottom indicates the system is on 'Internet'.



# DMS

## Document Status

- Reduced status values
- System enforce final status change
- Perform timely status change





# DMS

## Metadata Entry

1. Set default document type in the folder properties and provide metadata
2. Modify document metadata where needed

# DMS

## Metadata entry

- Metadata is not required for new document versions that use the same name
- Metadata cannot be obtained from directory structure or file name



# DMS – What is next?

## Manufacturers

- Upload documents in correct folder
- Follow naming convention
- Select correct document type
- Provide Metadata & use ARB mfr. code
- Submit documents to work-flow



# DMS -- What is next?

## ARB Staff

- Maintain document status current
- Testing new version
- Preparing DMS guideline
- DMS Training
- Carry-Over

# DMS -- What is next?

## Expedited Processing of Carry-Over EFs

- Requirements to Qualify as Carry-Over
- Carry-Over Applications
- Submit Carry-Over Application Ahead of Peak Season
- Follow DMS File and Process Name Identification Format

# E-Cert

## On-Road and Off-Road Diesels

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### Electronic Certification

- DMS = Documents only (e.g., word, graphics)
- E-Cert = Database (in lieu of FileMaker Pro)
- DMS + E-Cert = complete application

# E-Cert

## What is E-Cert?

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- Electronic database
- Engine family data
- Similar to current FileMaker Pro
- MFR to submit data electronically via XML schema.
- Currently in development - On-Road HDDE and Off-Road CI

# E-Cert

## Tentative Schedule

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- Workshop in January 2009
- Voluntary E-Cert test :May 2009
- Database ready October 2009??
- MY2010=E-Cert optional
- MY2011=E-Cert required



# E-Cert

## Support for Manufacturers' Transition to Electronic Submission

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- Coordinate schedule
- XML File Schema
- Parallel systems during phase-in
- Microsoft InfoPath form for data entry
- Staff available for training and questions

# Thank you



OpenEDMS 3.8  
Enterprise Document and Workflow Management Solution

Change Language: English

OpenEDMS System Highlights:

- Entirely Web Based
- No Training Required
- Simple Implementation
- Enterprise Security

OpenEDMS - User Login

User Name :

Password :

Domain : ARB\_OFF\_ROAD

[Forgot Password](#)

ARB Document Management System  
Tuesday, April 8, 2008

# Confirmatory Testing

# Confirmatory Testing

- 11 Nonroad Diesel Engines Testing in 2006 and 2007
- 1 family had an FEL Change
- New Changes to the Process including:
  - Smart Spreadsheets
  - CDX On-Line Process
- Small SI Testing started in March 2008

# Certification Statistics

# Certificates Issued in 2007

- Heavy Duty Gasoline Engines – 38
- Heavy Duty Diesel Engines – 58
  - Heavy Duty Diesel Engines California Only – 1
  - Heavy Duty Gasoline Engines California Only – 1
- Nonroad Compression Ignition including stationary 675
  - Stationary Only -5,
  - Combined nonroad and stationary 4

# Certificates Issued in 2007 (continued)

- Nonroad Compression Ignition California Only – 1
- Marine Spark Ignition – 112
- Small Spark Ignition – 1,084
- Evaporative Emissions – 19
- Marine Compression Ignition and IMO – 148
  - 3 IMO
- Snowmobile – 37
- Large Spark Ignition – 34
- Locomotive - 60

# Certification Statistics

Q/A and Update

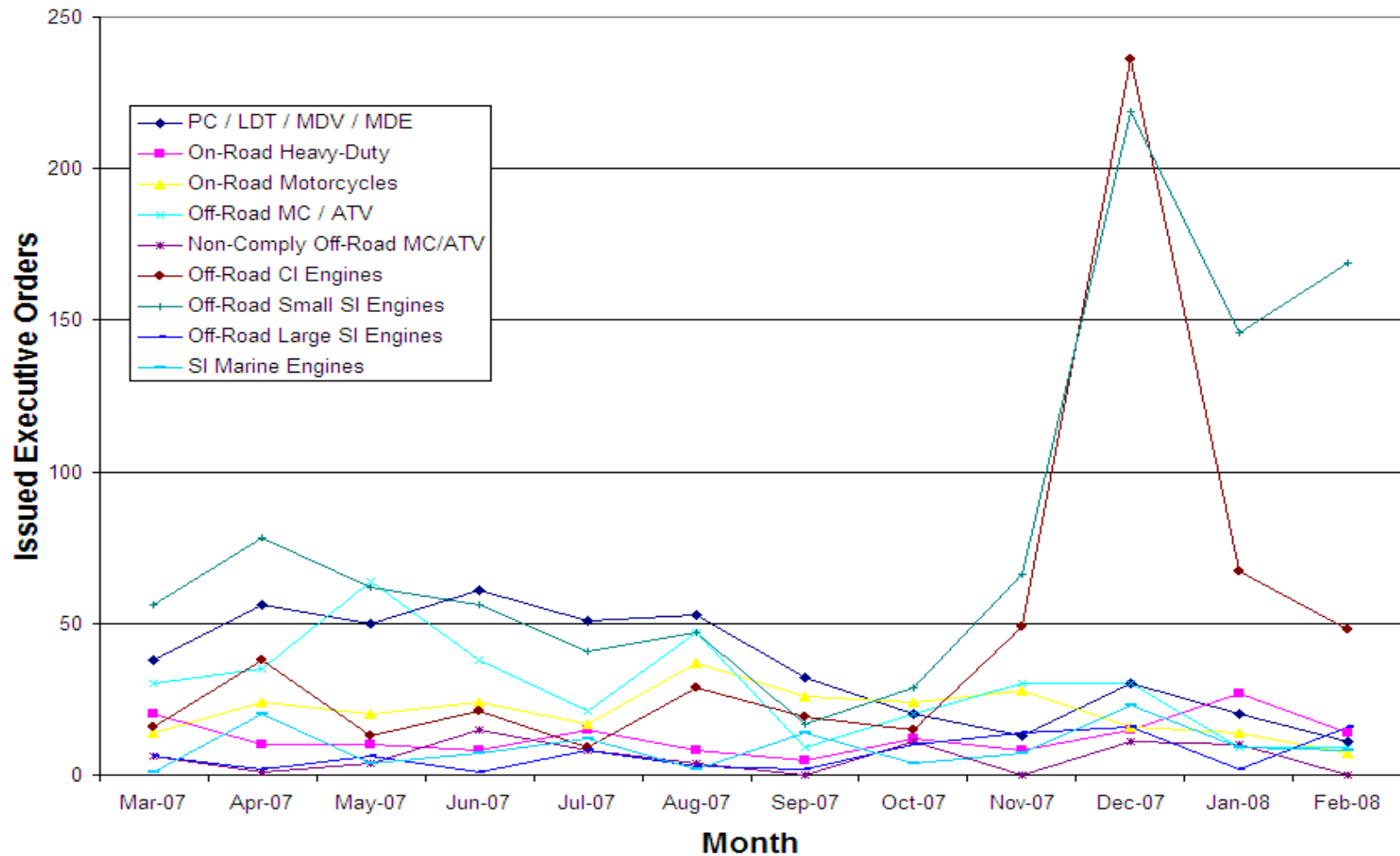
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2008 EMA Certification Workshop

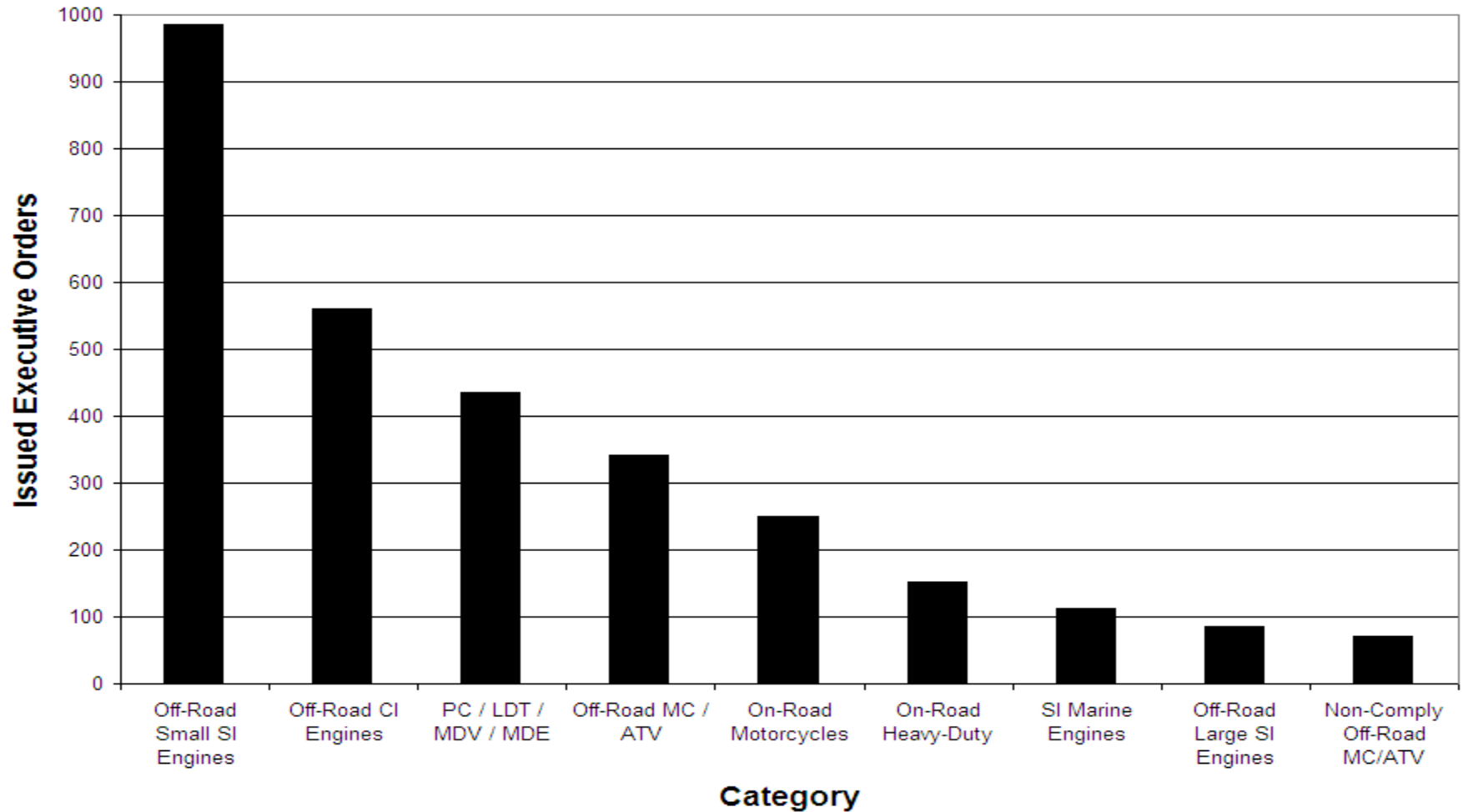
April 15, 2008



# Certification Application Statistics



# ARB's 2007 Cert Volume



# On-Road Heavy-Duty

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2008 EMA Certification Workshop

April 15, 2008

# On-Road Heavy-Duty

## Topics

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- What's New For MY2009-2010
- SCR Certification
- Durability Testing - DF Determination for MY2010
- Hybrid Vehicle Certification
- Idle Emission Reduction
- New Engine Family Naming
- Service Information

# On-Road Heavy-Duty

## What's New For MY2009-2010

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### Certification:

- 0.20 g/bhp-hr NO<sub>x</sub> STD for MY2010 HDDE – expect SCR usage with concomitant issues of durability testing, DF determination, and AECD evaluation

# On-Road Heavy-Duty

## What's New For MY2010+

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Certification: (continued)

- OBD – MY2010-2012, one engine family with OBD per non SVM (except alternative fueled engines)
  - Parent rating (highest sales) – full OBD
  - Child ratings (others) – extrapolated OBD (malfunction criteria per engineering evaluation approved by ARB)

# On-Road Heavy-Duty

## SCR Driver Inducement

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Concerns for continued proper SCR operation:

- Empty tank
- Improper refill (different or dilute reagent)
- No injection / no reagent usage

# On-Road Heavy-Duty

## SCR Driver Inducement

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### Empty Reagent Tank

- Initial early warning for low level (1/2 Full)
- Second warning of near empty tank (1/4 Full)
- Third warning at empty tank
- Driver inducement = no start; can be preceded by progressive derating



# On-Road Heavy-Duty

## SCR Driver Inducement

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### Improper Refill

(e.g., different or dilute reagent)

- Must detect improper refill
- Immediate alert to driver
- Driver inducement = no start; can be preceded by progressive derating

# On-Road Heavy-Duty

## SCR Driver Inducement

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### No Reagent Usage

(e.g., disabled injector, blocked feed line)

- Must detect no reagent usage
- Immediate alert to driver
- Driver inducement = no start ???

# On-Road Heavy-Duty

## MY2010 Durability

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- Bench aging of after-treatment devices (e.g., DOC, SCR, DPF) may be considered with prior approval

Base engine must have stable engine-out emissions

# On-Road Heavy-Duty

## MY2010 Durability

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- Must account for in-use regeneration effects (e.g., increased frequency and/or duration)
- Minimum service accumulation:
  - whole engine durability -  $\frac{1}{2}$  useful life
  - bench aging - full useful life

# On-Road Heavy-Duty

## Hybrid Certification

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Under current procedures, two cert options

- Option 1: Using Certified Engines
- Option 2: Chassis Certification (engine + hybrid system + vehicle)
- No changes planned



# On-Road Heavy-Duty Hybrid Certification

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Contact ARB for hybrid certification plans

- Durability and DF plan
- Emission Factor determination plan
- Warranty and Maintenance
- Other related discussions:
  - Special test conditions/procedures
  - Test vehicle configuration

# On-Road Heavy-Duty

## Hybrid Certification

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### Hybrid Electric Buses (HEBs)

- CA transit agencies (TAs) seeking HEBs to meet fleet rules
- TAs hoping to use MHDD engines in hybrids:
  - needs to work with engine MFRs to certify MHDDE to 220K-mi alternative UL
  - only 1 engine change-out during 435K-mi urban bus UL

# On-Road Heavy-Duty

## Idle Emission Reduction

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### MY2008+ HDDEs

- Requirements:
  - Five-minute engine shutdown (ESS), or
  - 30 g/hr NO<sub>x</sub> (clean idle), or
  - Approved alternatives (APS or Heaters).
- Part of AECD review process
- <http://www.arb.ca.gov/regact/idling/idling.htm>



# On-Road Heavy-Duty

## Idle Emission Reduction

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### Engine Shutdown System (ESS) - MAC 07-03

- ESS required for all CA-only and all 50-state-labeled engines not in exempt vehicles
- ESS disablement for exempt vehicles must be under strict manufacturer control
- ESS disablement using a software toggle is allowed for MY2008-2009. A complete reflash is required for MY2010+

# On-Road Heavy-Duty

## Idle Emission Reduction

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30 g/hr NOx Clean Idle

- ARB approval of “Certified Clean Idle” vehicle label is integral to clean idle certification
- Engine MFR to provide a label to all CA-only-labeled and all 50-state-labeled engines not in exempt vehicles

# On-Road Heavy-Duty

## Idle Emission Reduction

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Engines with ESS recertified to 30 g/hr NO<sub>x</sub> Clean Idle

- allowed for MY2007 and 2008 engines
- approved via running changes (MY2008 still in production ) and field fixes (MY2007-2008 already produced)
- within an engine family, ESS-equipped engines and clean idle engines must be in separate model or engine code designations

# On-Road Heavy-Duty

## Idle Emission Reduction

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MFR-Sanctioned Ducting of Certified APU Engine to Main Engine Exhaust System Upstream of DPF

- ARB approval of “Verified Clean APS” vehicle label is integral to this certification
- Engine MFR to provide a label to all CA-only-labeled and all 50-state-labeled engines not in exempt vehicles
- Regen. of main engine DPF with APU added is part of main engine AECD review

# On-Road Heavy-Duty

## Idle Emission Reduction

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ARB staff considerations for approving “Certified Clean Idle” and “Verified Clean APS” vehicle label

- color, contrast, and holographic effects of CA state outline and background “Clean Skies” lettering
- self destructiveness of label upon removing, e.g., deformation of the removed label and leaving a “VOID”, blank, or some other pattern on the vehicle that bear no resemblance to a valid label from a distance

# On-Road Heavy-Duty

## Idle Emission Reduction

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### MY2008 Idle Emission Compliance Status

- 27 families with ESS
- 14 families with clean idle
- 3 families with clean idle *plus* APU exhausting into main engine exhaust system upstream of DPF

# On-Road Heavy-Duty

## MY2009+ Engine Family Names

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- Use EPA CISC-07-03 for naming EFs.
- Unique ARB requirements indicated at the 10th position by special codes.
- ARB has not specified any such special codes.
- When special codes are needed, guidance letter will be issued in advance.



# Heavy-Duty Service Information

## Annual Website Reports

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- **ALL** heavy-duty engine manufacturers must submit annual reports pursuant to 13 CCR 1969(f)(6) that:
  - Show compliance with minimum website content and criteria in (f)(2)
  - Indicate the website's performance and effectiveness using Internet metrics
- Reports must be submitted no later than 30 days after the end of each calendar year



# On-Road Heavy-Duty

## Contact Information

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### Certification

Tom Chang, [ychang@arb.ca.gov](mailto:ychang@arb.ca.gov)

Duc Nguyen, Manager, [dnguyen@arb.ca.gov](mailto:dnguyen@arb.ca.gov)

### Service Information

Dean Hermano, [ehermano@arb.ca.gov](mailto:ehermano@arb.ca.gov)

### OBD

Mike McCarthy, [mmcarthy@arb.ca.gov](mailto:mmcarthy@arb.ca.gov)

# Heavy Duty Hybrid Certification

# HD Hybrid Certification

- Does 86.131-90 apply to diesel vehicles?
  - No, this is a light duty procedure
- Can a truck mfr use modeling simulation in lieu of testing?
  - Topic is still under discussion
- Can mfrs apply recognized chassis dyno drive cycles to vehicle applications not defined by Smartway?
  - Drive cycles in Smartway protocol will be used for the HD hybrid certification procedures. A mfr offering their own unique fleet cycle will probably not be accepted. A cycle in the particular vocation (e.g., EPA accepted utility cycle , transit bus cycle, etc.) will be used.

# HD Hybrid Certification (continued)

- **Do manufacturers have the option of creating their own application specific drive cycles?**
  - The reason for this is so that every utility truck will be evaluated based on the same utility drive cycle. Each application based on a single, application specific drive cycle.
  
- **Does EPA have a procedure for comparing a hybrid vehicle to a non-hybrid vehicle, similar to CARB?**
  - Eventually, when the HD hybrid certification procedure is written, a single vehicle test will be required.
  - The percent improvement over a conventional vehicle will be available, but the purpose of the procedure is to require the certifier to test a single vehicle.
  
- **Has EPA developed a Smartway protocol for charge depleting plug in hybrids?**
  - No we have not.

# 1068 Changes and Customs Forms

# 1068 Changes

- **What is the current timeline for publication of these part 1068 changes?**
  - Targeting signature in June 2008; Publication in July 2008.
- **What would be the effect date of these changes?**
  - Sixty days after publication, ~September 2008. We intend to add a provision like §1065.10(c)(6) to allow a 12-month grace period for reg changes.
- **How does CISD intend to implement changes that are required due to some of these definition changes? Will additional rulemakings be required or guidance documents?**
  - Not anticipating the need for further rulemaking or guidance. CISD will monitor compliance and respond as appropriate.

# 1068 Changes (Continued)

- **What will be the final draft language for labeling and controlling the sale of short blocks as service replacement? What considerations has EPA made regarding labeling size and content?**
  - Updated draft text being provided by EPA on an on-going basis from ASD.
- **How will EPA address the language in 1068.230(b) that voids a manufacturer export exemption in the case of a third party offering an export engine for sale in the US?**
  - Waiting for EMA feedback on changes to export exemption.

# 1068 Changes (Continued)

- **Has EPA determined their authority to require permanent labeling of engines required by the destination country in cases where the destination country has standards identical to the US?**
  - See CAA 203(b)(3).



# Customs Forms

- **What is the process for implementing changes resulting from part 1068 SSI rule changes?**
  - We plan to release an updated 3520-21 form in conjunction with the Nonroad SI rulemaking.
  - There will be opportunity for EMA review of the revised form.

# Off-Road Compression-Ignition Engines

Q/A and Update

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2008 EMA Certification Workshop

April 15, 2008

# OFCI - DETERIORATION FACTORS

- Submit the durability plan to ARB prior to conducting any durability tests
- Durability testing is required to calculate the deterioration factor (DF) for each engine family
- Within each engine family, manufacturers may choose the worst case model for durability test to minimize their testing burden

# OFCI - DETERIORATION FACTORS

- Worst case model is defined as the model with the highest emissions deterioration
  - Factors to consider include highest fueling rate, aftertreatment technology etc.
  - “Sales-weighted” model is not the worst case model
- DFs can be additive or multiplicative
  - Aftertreatment device – multiplicative
  - No Aftertreatment device – additive

# OFCI - DETERIORATION FACTORS

- For established emission control technology
  - Use minimum 1,000 hours of durability testing and extrapolate to useful life
- For new emission control technologies, such as DPFs and catalysts
  - Age the engine to at least half of the useful life and extrapolate the results to useful life
- Manufacturers may carry-across DFs to other engine families subject to ARB approval
- DF carry-over to subsequent model years is allowed, if no change