

Agenda

- 1. ARB IT Certification Initiative
- 2. Electronic Data Submission (E-Cert)
- 3. Document Management System (DMS)
 - a. Implementation Schedule
 - b. Document Preparation Guidelines
 - c. DMS Live Demo

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ARB IT Certification Initiative Goals

- Harmonize electronic certification system for all categories
- Reduce paperwork
- Improve certification process
- Faster certification processing

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It is the ARB's goal to migrate to a harmonized electronic certification system for all certification categories. This will take the place of the current paper-based system.

It is our hope that eliminating some of the paper will help us to better process certification applications and more quickly address certification issues.

It is our intention to harmonize data requirements with EPA so as to ease the burden on manufacturers of having to submit different formats to each agency.

We understand that this ambitious goal will take several years to accomplish but we have made great progress so far.

ARB IT Certification Initiative Overview

- ARB is working with EPA to harmonize engine family specific data
- ARB is reviewing its needs for certification documents and data
- ARB sees benefit in paperless system

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ARB is currently working with EPA to harmonize engine family specific data for all certification categories.

This harmonization effort has also sparked an evaluation and reinvention of how ARB handles certification documentation and engine family specific certification data.

It has been determined that it would benefit both the ARB and the manufacturers to move away from a paper-based system to an electronic system.

ARB IT Certification Initiative Overview

An electronic certification system would:

- Enable ARB staff to more easily access and review an application
- Enable a manufacturer to get a confirmation when a Certificate Summary Information (CSI) package has been submitted
- Assist in tracking application progress

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These standardized processes include a:

- •Standardized electronic submission process
- Standardized file naming
- Standardized Certificate summary information in XML

The necessary document preparation requirements will be address later in this presentation.

ARB IT Certification Initiative Status

The electronic certification system consists of:

- Engine Family Specific Information (CSI)
- Supporting Certification Documentation

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After much discussion internally and with EPA it was determined that the Certification application, for IT purposes, is best divided into two parts (It is necessary to submit both parts in order to receive an Executive Order):

Engine Family Specific Information (otherwise known as CSI)

Repetitive

Easily stored in a database

Supporting Application Documentation

Free-form format (enabling diversity from document to document, manufacturer to manufacturer, such as images)

Best stored in a directory structure

ARB IT Certification Initiative Status

- E-Cert is a new Oracle database for storing CSI information and generating Executive Orders
- DMS is a new Document Management
 System for storing the supporting
 certification documentation

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8

ARB has designed a new Oracle database for storing CSI information and generating Executive Orders. This system is called E-Cert.

ARB has installed a new Document Management System called DMS for storing the supporting certification documentation.

E-Cert

- E-Cert will take data forwarded from the manufacturer in the appropriate XML format and will automatically load the data into Oracle
- A notification will be sent to the manufacturer upon a successful load or a failed load
- A notification will be sent to the ARB staff to begin a review

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E-Cert Overview

- The system will facilitate review by ARB staff via web screens
- System will generate Executive
 Order for ARB staff
- All data are secure upon transfer using a Secure Socket Layer

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E-Cert Status

- Motorcycle is the first module for E-Cert
- The E-Cert motorcycle module is scheduled to begin in February 2006
- Other categories will be phased in over the next two years
- ARB has signed an Interagency Security Agreement with EPA in order to accept its electronic Motorcycle data

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DMS Overview Customized off-the-shelf product for document management called OpenEDMS made by Altimate Systems Inc Access via the internet Documents organized into folders A manufacturer can only see its own folders California Environmental Protection Agency Air Resources Board

ARB is using a customized off-the-shelf product for document management called OpenEDMS made by a company called Altimate Systems Inc.

A manufacturer will be able to log directly into the DMS via the internet and deposit its documents into its individual DMS data folders.

The folders will be organized by category, model year, FOIA and CBI.

A manufacturer can only see its own folders.

DMS Overview

- Upon deposit of documents into a workflow queue
 - tracking mechanism triggered
 - certification engineer notified
- Different versions of documents may be compared to determine changes
- Additional features will be highlighted in the live demonstration

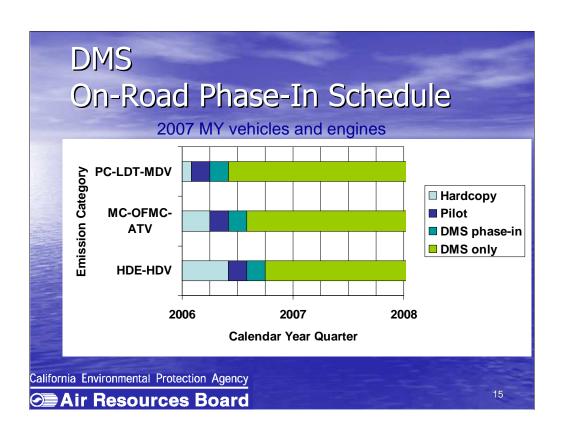
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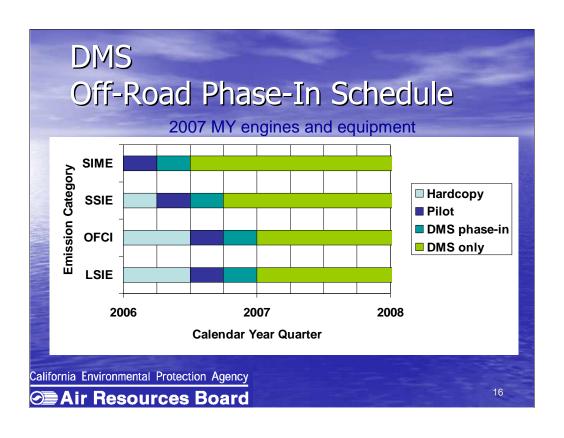
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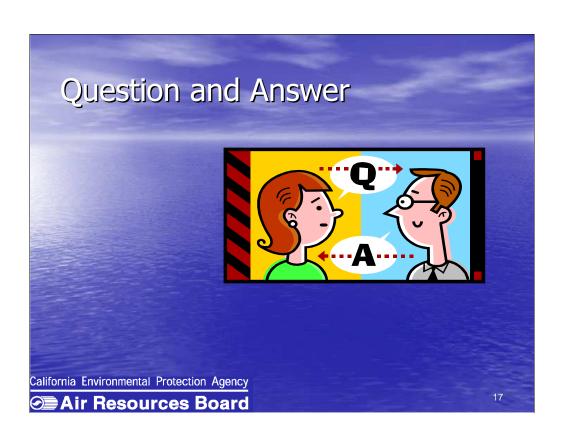
DMS Implementation Schedule • Phase-in by vehicle/engine category • All manufacturers will be required to submit supporting certification documentation electronically California Environmental Protection Agency ■ Air Resources Board

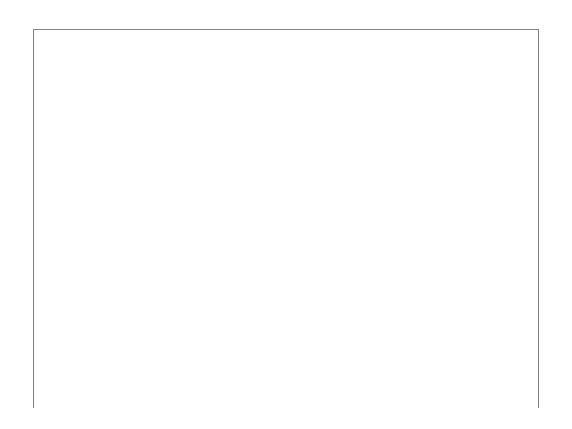
The DMS will be implemented by category, in phases.

It will be mandatory that all manufacturers, based on the following phase-in schedules, begin to submit supporting certification documentation electronically.









DMS Document Preparation Name Document The appropriate naming convention must be used. This naming is necessary for the version control to function properly Example: CBI_6ABCX_COMMON_APP_INI The naming convention is harmonized with EPA for motorcycle category, except NO version number in the name Applicable to all categories for ARB California Environmental Protection Agency Air Resources Board

Please see handout for a detailed description of the file naming convention.

DMS Document Preparation

Choose Document Type

- A manufacturer must choose a document type when submitting a document
- The document type reflects common business practice making it easy to identify

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DMS Document Preparation • Examples • On Road • Certification Application - Common Section FOIA • Reports, Publications, etc. • Off Road • Compliance Emission Durability Test Plan • Letter of Intent, Alternate Test Procedure, etc. California Environmental Protection Agency Air Resources Board

DMS

Document Preparation

- Place in Directory Tree
 - Documents must be placed in the applicable folder in the tree
 - Document types are assigned to particular folders to define and specify their intended content
 - Common documents and Engine Family specific documents have their own directories as will FOIA and CBI documents

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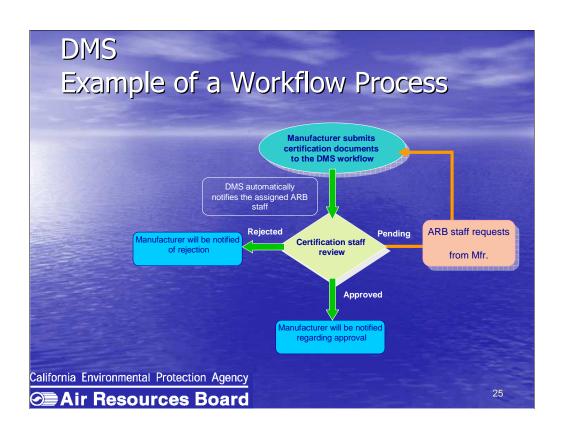
DMS Document Preparation Provide Metadata Metadata is an essential component of DMS Metadata must be completed based on the document type chosen California Environmental Protection Agency Air Resources Board

Metadata is an essential component of document management, which not only provides the basis for a document index, but serves as useful search criteria to greatly reduce the margin of unrelated search results.

Metadata must be completed based on the document type chosen.

DMS Document Preparation Initiate Workflow A workflow is an automated process that helps to route and track documents and notify ARB A workflow process will start as soon as a manufacturer submits the document to the appropriate workflow The document will be sent to the corresponding ARB staff queue Staff will automatically receive a notification of the new submission California Environmental Protection Agency Air Resources Board

The hand-out identifies the appropriate workflow name for each document type.





Ivonne Guzman-Cicero is the project manager for the DMS project and will now be showing you a live demonstration of the DMS.

A user guide will be available to use as a future reference.

DMS

 ARB DMS is located at: https://secure.arb.ca.gov/certdms

Security:

- The system provides secure document transmission SSL support. Document access is controlled at the folder level using **Access Control List** (ACL). It also provides multiple-domain support, and monitoring
- Registered users with valid login ID and secure password can access the DMS through the internet from the supported web browsers: Internet Explorer 6.0+, Netscape Navigator 7.0+

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DMS Manufacturers Can:

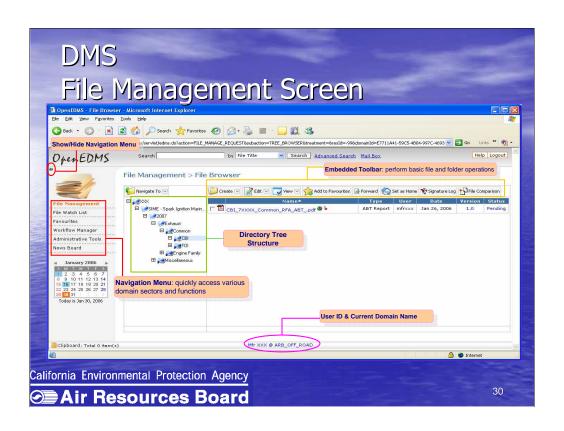
- Upload new documents
- Update existing documents
- Search for their own documents
- Check status of documents submitted to workflow
- Change their own password

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DMS Manufacturers Cannot:

- Delete folders or documents
- Delete an existing workflow process
- View other manufacturers' documents

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DMS Live Demo • Off-road Example • On-road Example • Additional Features California Environmental Protection Agency Air Resources Board

DMS Live Demo Off-Road Example

- 1. Manufacturer will upload a Warranty Statement for approval
- 2. Manufacturer will submit document to the workflow
- 3. ARB staff will approve without changes
- 4. Manufacturer will check the document status
- 5. Manufacturer will receive notification of approval

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33

SWITCH TO DMS

DMS Off-Road Summary

We learned how to:

- 1. Upload document for approval
- 2. Submit document to the workflow
- 3. Check document status
- 4. Check workflow status
- 5. Check for notification of approval
- 6. Change their password

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DMS Live Demo On-Road Example

- 1. Manufacturer will upload an Emissions
 Durability Plan for approval
- 2. Manufacturer will submit uploaded document to the workflow
- 3. ARB staff will review submission
- 4. Manufacturer will receive a notification requesting changes from the ARB staff

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DMS Live Demo On-Road Example

- 5. Manufacturer will revise the document retaining original name and resubmit to existing workflow process
- 6. ARB staff will review submission and approve Emissions Durability Plan
- 7. Manufacturer will receive notification of approval

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36

SWITCH TO DMS

DMS ON-Road Summary

We learned how to:

- 1. Upload a document for approval
- 2. Submit uploaded document to the workflow
- 3. Identify and check a notification requesting changes from ARB staff
- 4. Submit additional documents or a new version to an existing workflow

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3/

DMS ON-Road Summary

We learned how to:

- 5. Check document and workflow status
- 6. Check for notification of approval
- 7. Access different versions and add comments
- 8. Compare documents

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DMS Additional Features Summary

- Automatic Version Control: ensures document integrity
- Check-in/Check-out Mechanism: prevents simultaneous content changes and inadvertent overwrites
- Version Comparison: facilitates identification of differences
- Powerful Search: supports advanced search for file content and metadata/document index

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DMS Problems/Troubleshooting

- Contact your ARB certification representative to help delete documents, when
 - a document is uploaded into the wrong folder
 - a document is submitted to the wrong workflow processes
- Contact Ivonne Guzman-Cicero, Kim Pryor (On Road), or Jeff Doll (Off Road), when
 - experiencing Technical problems
 - changing manufacturer representatives

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E-Cert Contact Information

Regarding the project with EPA or E-Cert please contact:

Robin Lang, (626) 575-6827, rlang@arb.ca.gov or Robert Gammariello, (626) 450-6138, rgammari@arb.ca.gov

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DMS Contact Information

Regarding the Document Management System please contact:

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Or
Kim Pryor (On Road),(626) 575-6640, kpryor@arb.ca.gov
Or
Jeff Doll (Off Road), (626) 575-6661, jdoll@arb.ca.gov

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