Air Resources Board Certification Update

Certification, DMS, and E-Cert

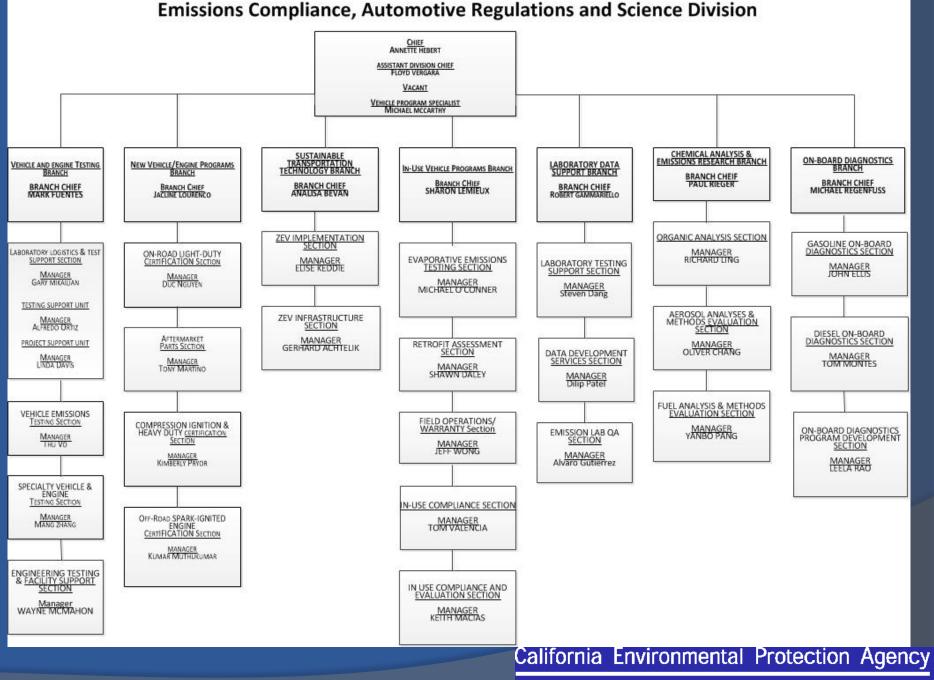
2014 EMA Certification Workshop
May 13, 2014

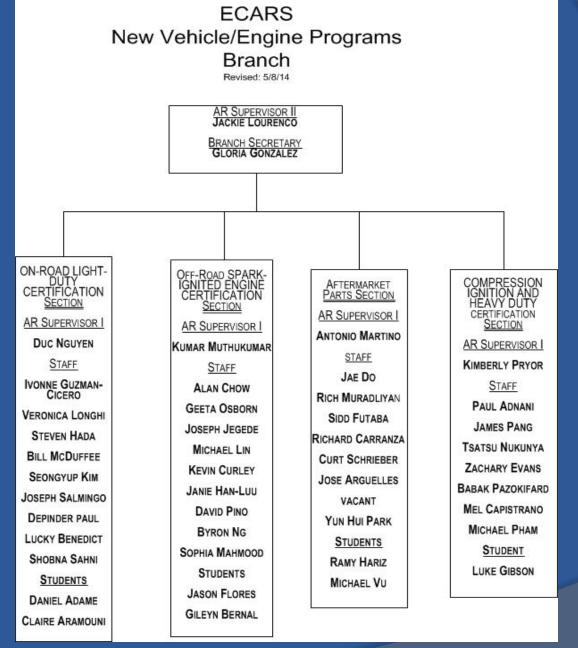


Outline

- Organization
- Certification Statistics
- DMS Update
 - DMS Statistics
 - Reminders
- Certification Streamlining
- E-Cert Update
- General Certification Topics

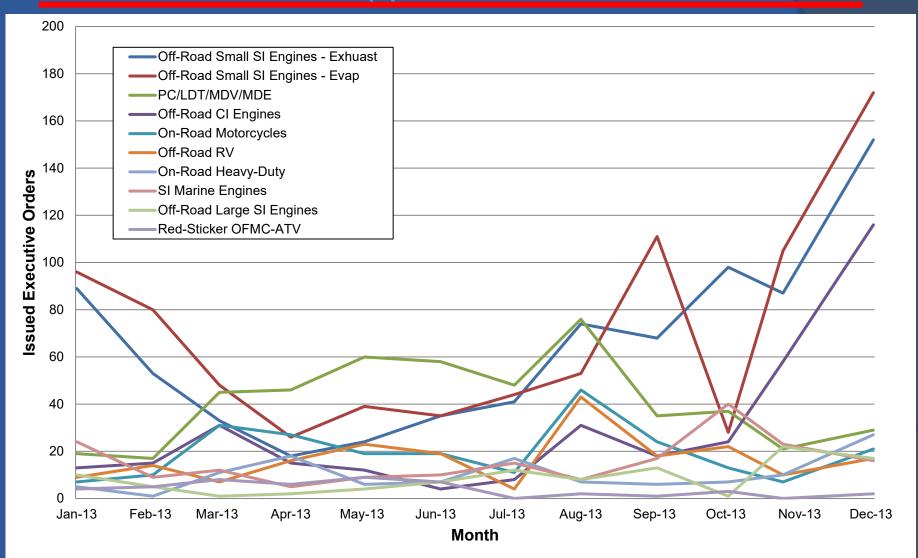






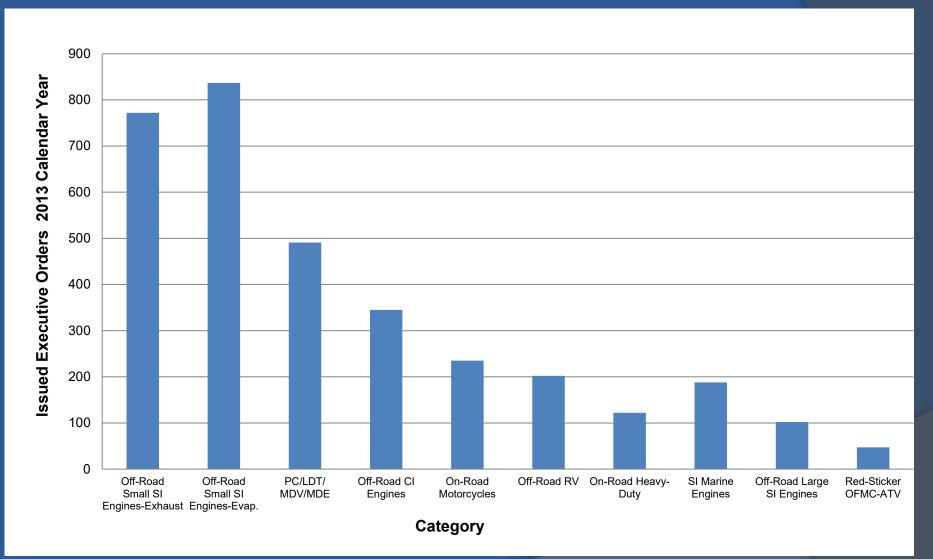


Certification Application Statistics 2013





Volume of EOs issued in 2013



DMS and E-Cert Update

- DMS Reminders
- Certification Streamlining Update
- E-Cert Status



Update Excel Contact Sheet & Electronic Signature Page

- Review and update
- Include only active contacts and identify inactive contacts quickly
- Wet signature by manufacturer's authorized company representative (not third party consultants)
- Mail-out coming soon requesting Electronic Signatures and contact sheet to be updated



Other DMS Reminders

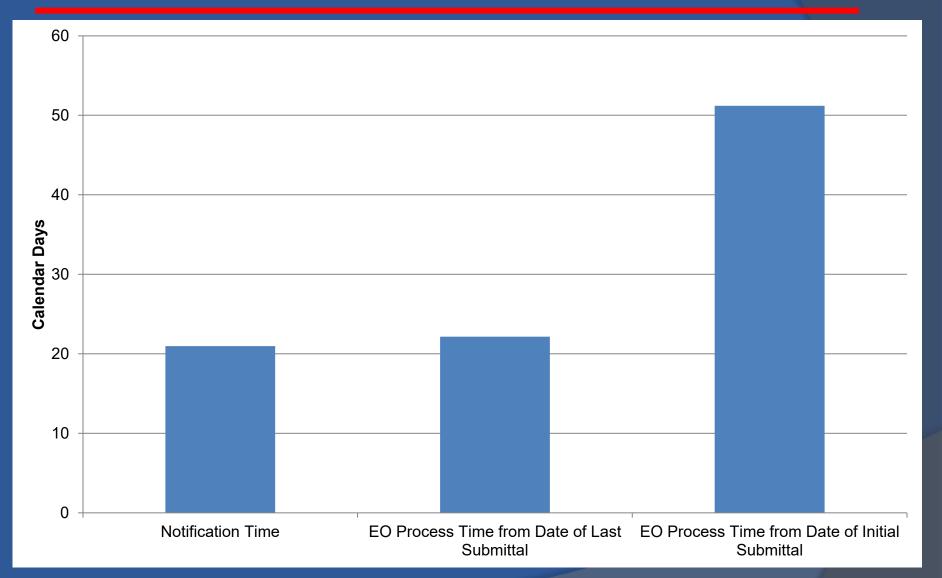
- Company name change
 - Official letter from manufacturer's authorized representative on company letterhead
 - Specify start date of new name
- DMS web based training for manufacturers' representatives offered each month



Certification Streamlining - Update

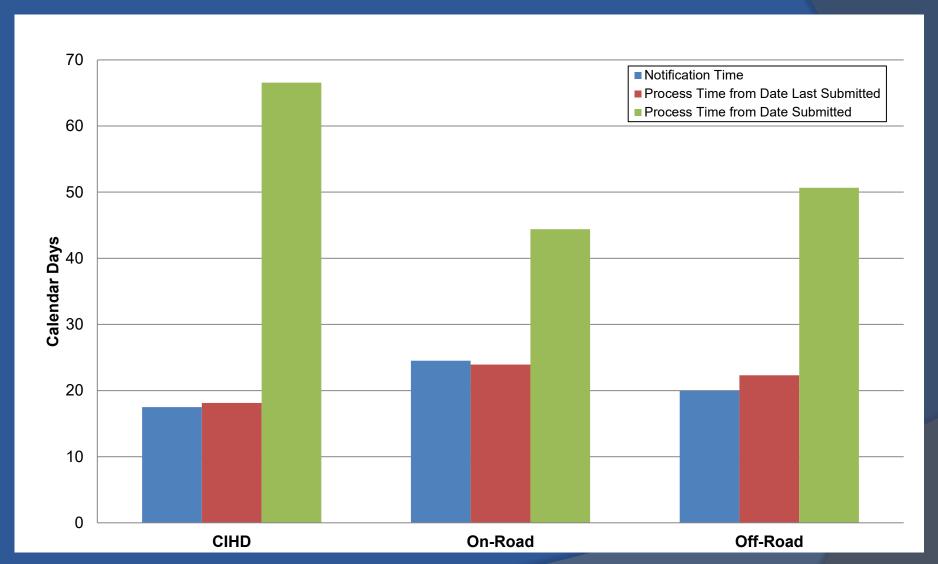
- Increase efficiency
- Provide structure and formality
- Provide feedback to manufacturers in a timely manner
- Use consistent communication protocol with manufacturers across all categories
- Draft to EMA

2013 Calendar Year Average Application Processing Time





2013 Calendar Year Average Application Processing Time





Diesel Engine E-Cert Status

- Staff finalizing Data Requirements by adding mode specific data requirements
- Workshop in the Fall
 - Present Data Requirements
 - Present XML schema and MS InfoPath form at workshop

General Certification Topics

- Compliance Reports
- Warranty Language
- Certification Application (FileMaker Pro)





Compliance Reports

On-Road

- End-of-Year ABT (90 days)
- •Final ABT (270 days)
- Certification Fee (Mailout)

Off-Road

Engine Mfr.

- •End-of-Year Sales Report (Feb. 15)
- End-of-Year ABT (90 days)
- Final ABT (270 days)
- Replacement Engine(conclusion of model year)

Equipment Mfr.

•Flex Sales Report (Mar. 31)





Warranty Statement Updates

- Major review in 2013
- Identify "engine" manufacturer name
- Specify contact phone number
- Provide complete list of emissions related parts
- Identify the applicable warranty period



Warranty Statement Updates

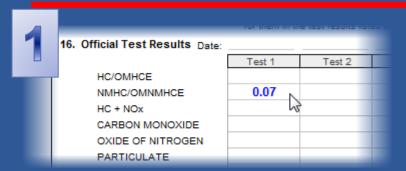
- Emergency repair provisions identified in 13 CCR §2036(d)(4)
 - Seek nearby service
 - Reimbursable

FileMaker Pro: Common Issues

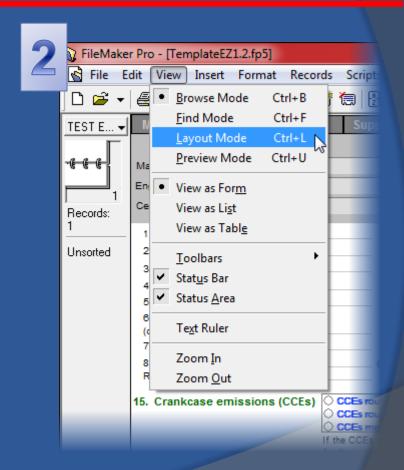
- Family Information Form
 - Manufacturer Name not included (top)
 - Intended Service Class (#16) incorrect
 - Engine Family Name (#4) incorrect / inconsistent
- Test Information Form
 - Emission Values (#16-18) printed with incorrect significant figures
 - Cert Levels (#18) incorrectly calculated
- **Engine Model Summary**
 - ECS acronyms (#9): Oxidation catalyst (DOC or OC) is different than AMOX catalyst
 California Environmental Protection Agency



FileMaker Pro: Significant Figures

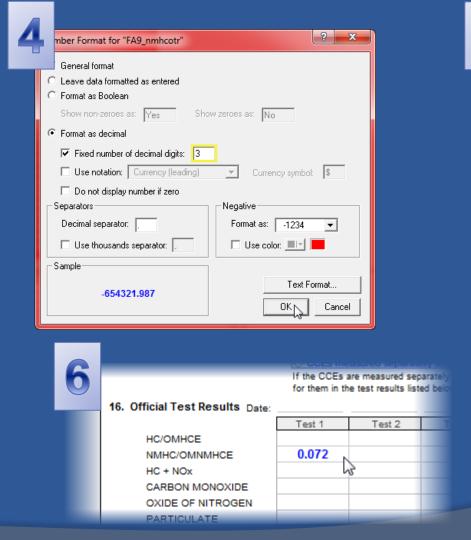


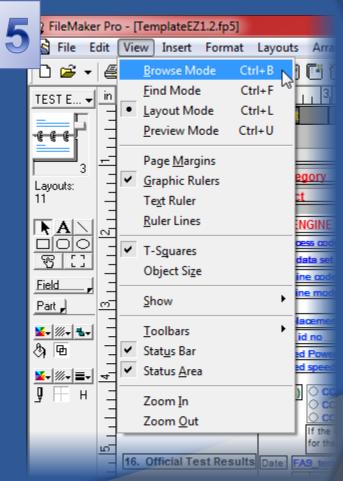
HC OMHCE 9 HC HC/OMHCE NMHC/OMNMHCE 9 nm FA9 nmh 从 Cut HCNO HC + NOx FA9 CO (Copy A9 CC CARBON MONOXID FA9 NOx 🖦 Paste A9 NO OXIDE OF NITROGEN A9 Part A9 Par PARTICULATE formaldet Text Format... ormald FORMALDEHYDE ACCELERATION A9 accel 19 acc Number Format... 9 luagino 9 luaai LUGGING (Gen) (% A9 pea Field Format... PEAK (%opacity A9 peak IDLE CO % 49 idle CO 9 idle Field Borders... CO2 FA9 co Specify Button... Specify Field..





FileMaker Pro: Significant Figures





Certification

On-Road Topics

- Labels
- OBD
- Alternative Fuel Retrofit Systems
- Service Information Rule
- Greenhouse Gas Regulations



Engine Labels

- Several issues with engine labels:
 - Incorrect or missing list of Emissions Control System (ECS) components
 - Incorrect or missing FEL value
 - Missing storage tank capacity (Evaporative)

On-Board Diagnostics

- •MY2014: All engine families need to be equipped with OBD, except alternative fueled engines (EMD+)
- Hybrid Engine OBD System
- Upload OBD approval letter to DMS

Alternative Fuel Retrofit System

- ARB approved amendments to the existing procedures in September 2013
- Usable now
- Applicable to 2004 and later used vehicles and engines only
 - Manufacturers may request certification based on data from previously certified new vehicles and engines – 2004 and later only
 - New vehicles and engines certification requirements are not changed



Alternative Fuel Retrofit System

- Pre-certification requirements:
 - OBD, durability demonstration, emission testing, labeling, warranty, installation and maintenance procedures, etc.
- Post-certification requirements:
 - Record-keeping, annual sales reporting,
 BAR inspection, in-use enforcement testing

Alternative Fuel Retrofit System

- For more detailed information please refer to the Workshop held on November 12, 2013 at El Monte, CA.
 - http://www.arb.ca.gov/msprog/onroad/altfuel conv/altfuelconv.htm



Service Information Rule

- 13 CCR §1969
- Manufacturers are required to submit annual reports for Service Information website availability
- Some manufacturers have not provided the information to ARB yet



ARB Harmonized With EPA Phase I HD GHG

- ARB adopted Phase I HD GHG Standards in December 2013.
- Requirement for manufacturers of HD vehicles and engines to meet GHG emission limits
- ARB goal is to minimize submissions from manufacturers



ARB Harmonized With EPA Phase I HD GHG

- Key program websites:
- http://www.arb.ca.gov/msprog/onroad/phaselghg/phase lghg.htm
- http://www.arb.ca.gov/regact/2013/hdghg2013/hdghg20 13.htm



OFCI

Certification Topics

- Compliance with FEL limits
- Labels
- Deterioration Factors
- Production Reports
- TPEM Engines





ALT 20% (NOX, PM, NOX + NMHC) FEL Limits

- Submit AB&T plan (beginning and end of model year)
- Provide calculations detailing that engines certified to the ALT 20 % FEL CAP standard do not exceed 20% of U.S. production volume in any single model year in each power category
- Submit to DMS



Engine Labels

- Information required to be on the label:
 - List of Emissions Control System (ECS) components
 - FEL value (if above standard)
 - Applicable Power Category
 - Ultra Low Sulfur Fuel only
 - Correct statement of compliance

Deterioration Factors

- Carryacross of on-road DFs to off-road engines,
 where applicable
- DF carryacross requires completion of the engine and aftertreatment parameters table
- Two DFs needed for Tier-4 → NRTC and SS

Production Reports

- Final production numbers (flex engines and regularly certified engines) are due within 45 days from the end of model year
- Report 50-State production volume (include California sales if available)
- AB&T numbers must be submitted within 90 days from the end of the model year. Final report is due within 270 days from the end of model year
- Submit reports using ARB specified format to DMS



TPEM Engines

- ARB responding to EMA questions
- TPEM Engine MAC will be released after discussion with EMA
- Additional guidance for equipment manufacturers forthcoming
 - Submittals
 - DO NOT e-mail Annette, new e-mail address: TPEM@arb.ca.gov
 - Reports
 - Hardship requests: ARB & EPA



Upcoming Regulations

- Greenhouse Gas Regulations
- Optional NOx Standards





Questions





