

Heavy-Duty and Nonroad Engine Group

EMA Certification Workshop

May 5, 2010



Topics

- ❑ Certification Team and Statistics
- ❑ Nonroad SCR Certification
- ❑ Confirmatory Testing
- ❑ Defect Reports
- ❑ Verify
- ❑ In Use Testing and Reporting
- ❑ Compliance Reports



Certification

- Certification Team
 - New staff joining the cert team
 - Manufacturer representatives will be reassigned
- Average processing time for Large CI
 - 2009MY - 41.14 days
 - 2008MY - 48.2 days
 - 2007MY - 53.0 days



Heavy-Duty and Nonroad Engine Group

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CI Team (DC)

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– Team Leader

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*Nick Flores

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U.S. Environmental Protection Agency

Office of Air and Radiation

Office of Transportation and Air Quality

Compliance and Innovative Strategies Division
Heavy-Duty and Non-Road Engine Group

Certification Summary

Date of Report: 4/28/10

Parameters of Report: 2009 Model Year

On-Hwy

Diesel Certificates:	88
Gas Certificates:	23
Diesel FEL Changes:	10
Gas FEL Changes:	5
On-hwy Running Ch.:	
On-hwy Corrections:	10

Non-Road CI

Diesel Certificates (all):	616
Stationary-nonroad:	128
Stationary only:	5
FEL Changes (all):	6
Running Changes (all):	
Corrections (all):	87

Marine CI/IMO

Certificates (all):	193
Marine CI Certificates:	150
IMO Certificates:	43
FEL Changes (all):	2
Running Changes (all):	12
Corrections (all):	27



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NRSI <25hp

Certificates (all):	1160
IA:	39
IB:	58
I:	247
II:	358
III:	2
IV:	307
V:	148
FEL Changes (all):	66
Running Changes (all):	366
Corrections (all):	44

Marine SI

Certificates:	124
FEL Changes:	1
Running Changes:	17
Corrections:	1

Snow/Evap

Snow

Certificates:	37
FEL Changes:	5
Running Changes:	6
Corrections:	3

Evap On-hwy

Certificates:	19
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Evap On-hwy

Certificates:	161
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Large SI

Certificates:	89
FEL Changes:	0
Running Changes:	25
Corrections:	4

Certificates total **2,510** Fel changes total **95** Running changes total **545** Corrections total **176**
(New submissions)

Total Submissions 3,487

Certification

- 2010 Lessons Learned
 - Late cert season
 - Still reviewing 2010 applications
 - Early communication with cert staff extremely beneficial
 - Automatic approval – only when specified in regulations



Nonroad SCR Certification

- Short guidance outlining applicable regulations planned
- Scheduled Maintenance (1039.125)
 - Need petition if DEF refill less than every 4,500 hours
 - Maintenance must be reasonably likely to occur in use
 - Driver warning/inducement strategies
- Adjustable Parameters (1039.115(e) and 1039.801)
 - Identification of incorrect reducing agent
 - Tamper resistant design
 - DEF availability (infrastructure development)





Nonroad SCR Certification

- AECDs (1039.115(g) and 1039.801)
 - Freeze Protection
- Unregulated Pollutants (Section 202(a)(4) of CAA)
 - Ammonia – need to show durability over entire useful life
 - Vanadium – sublimation and particulate emissions
 - Dioxins – ongoing EPA test program
- Talk to your certification representative



Confirmatory Testing (2009 and 2010)

- Nonroad CI - at NVFEL and contract labs
- Small SI – at NVFEL
- HD Diesel – at manufacturer lab
- Testing at contract labs to be expanded in 2010
- Insert CI and SI tables



New DR/VERR System Development

- PDF form based system being developed in house for defect and voluntary emissions recall reports
- Templates to be submitted via CDX
- Current Status
 - Completed EPA internal system testing
 - Minor revisions based on feedback and review of revised forms
 - Example: removed question regarding submittal of report within regulatory required 15 day period
 - Beginning EPA internal acceptance testing



Next Steps

- Set up manufacturer user accounts for testing
- Manufacturer System Testing Phase
 - Enter data into forms
 - Submit data to test environment via the Verify Document Module





Timing/Schedule Targets

- Manufacturer Testing Phase: May 10-21, 2010
- Review issues from manufacturer testing phase and revise, as necessary: May 24-28, 2010
- System Deployment: May 28 - June 4, 2010
 - DR/VERR software components installed in Verify production environment
- Issue a manufacturer guidance letter: June 4, 2010
 - Discuss system details and announce official use of new DR/VERR system in 15 working days
- System Implementation: June 28, 2010



Questions regarding the DR/VERR
System should be directed to:

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Verify

- Development of Nonroad CI and Nonroad SI certification modules on schedule
- Next meeting – Web Conference on 5/19/10
- For more information -
<http://www.epa.gov/otaq/verify/index.htm>
 - Schedule
 - Documents and presentations
- IMS cut off date – 7/16/10
- Verify start date – 8/16/10



In Use Testing and Reporting

- Heavy-Duty In Use
 - Reports from 2nd year of enforceable gaseous program (selected in 2008) were due 3/2010
 - Reports from 1st year of PM pilot (selected in 2007) due 5/2010
 - Selections for 2010 will be issued in June
- Nonroad In Use
 - Proposed rule in draft stage



Compliance Reports

- Renewed focus on compliance reports (ABT, PLT, Production, In Use)
- Most templates complete
- Templates to be loaded into a compliance database for EPA auditing and review
- Guidance document to be issued
 - Templates posted
 - Requesting missing reports
 - Outlining consequences for non compliance

