

# In-Use Off-Road Diesel Vehicle Regulation



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**Elizabeth Yura, Air Resources Engineer  
Off-road Implementation Section**

**California Environmental Protection Agency**

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**Air Resources Board**



# Outline

- Applicability of Regulation
- Regulation Requirements
- Compliance Exemptions/Extensions
- Early Credit
- Compliance Assistance and Outreach
- Contacts

# Applicability

Regulation applies to any person, business, or government agency who owns or operates any diesel-fueled or alternative diesel fueled off-road vehicle horsepower within California

- Applies to vehicles  $\geq 25$  horsepower
- Applies to the “drive” engine only
- Includes out-of-state vehicles brought into California
- Excludes vehicles primarily used ( $> 50\%$  time) for agricultural operations
- Excludes vehicles used for personal use

# Applicability Cont.

- What is considered an off-road vehicle?
  - Vehicles that were intended to be used off-road
  - Cannot be registered to drive safely on-road
- Excludes vehicles designed to operate on-road regardless of use
- All workover rigs are included
- Current proposal to add 2 engine cranes (both engines)



# Requirements Vary by Fleet Size

<b>Fleet Size Category</b>	<b>Description</b>
Small	Fleet with $\leq 2,500$ hp, or Municipal fleet in low population county
Medium	Fleet with 2,501 to 5,000 hp
Large	Fleet with more than 5,000 hp, or State or Federal Government fleet

# Current Requirements

- 5 Minute limit on idling
  - Exemptions listed in regulation
  - Can apply to ARB for idling exemption not listed
  - Written idling policy required for Medium and Large fleets by March 1, 2009
- Disclosure of regulation applicability:
  - Persons selling in California to California buyer
  - Must include disclosure on invoice or bill of sale
  - Disclosure records must be kept for 3 years

**“When operated in California, any off-road diesel vehicle may be subject to the California Air Resources Board In-Use Off-road Diesel Vehicle Regulation. It therefore could be subject to retrofit or accelerated turnover requirements to reduce emissions of air pollutants. For more information, please visit the California Air Resources Board website at <http://www.arb.ca.gov/msprog/ordiesel/ordiesel.htm>”**

# Initial Reporting

- Initial reporting varies by fleet size
  - Fleets must report their fleet information as it was on March 1, 2009
  - Fleets must report their information to ARB by their designated reporting date
  - Reporting is free, no cost to fleets to register vehicles with ARB

<b>Fleet Size Category</b>	<b>Initial Reporting Date</b>
Large	April 1, 2009
Medium	June 1, 2009
Small	August 1, 2009



# Vehicle Labeling

- All vehicles subject to the regulation must be labeled
  - ARB assigns Equipment Identification Number (EIN) after initial reporting period; label stays with vehicle for life
  - Fleets must label vehicles within 30 days of receiving EIN; labels not issued by ARB
  - Label dimensions/specifications found in section 2449(f)



**DB8B97**



# What is DOORS?

- Diesel Off-road On-line Reporting System
  - An on-line tool which allows you to compile and report your fleet information
  - Meets the reporting requirements
  - Retains your fleet data for future reporting
  - Includes additional features such as automated compliance planning

# Reporting Tool: DOORS

- Can report fleet information in three formats
  - Directly enter information online
  - Upload DOORS spreadsheets
  - Submit hardcopy forms
- Reporting early
  - Will issue EINs early to fleets who enter their fleet information into DOORS
  - ~ 4,000 vehicles already reported
  - Reporting assistance is available from ARB staff, contact Cory Parmer ([pparmer@arb.ca.gov](mailto:pparmer@arb.ca.gov)) for information

# Compliance Requirements

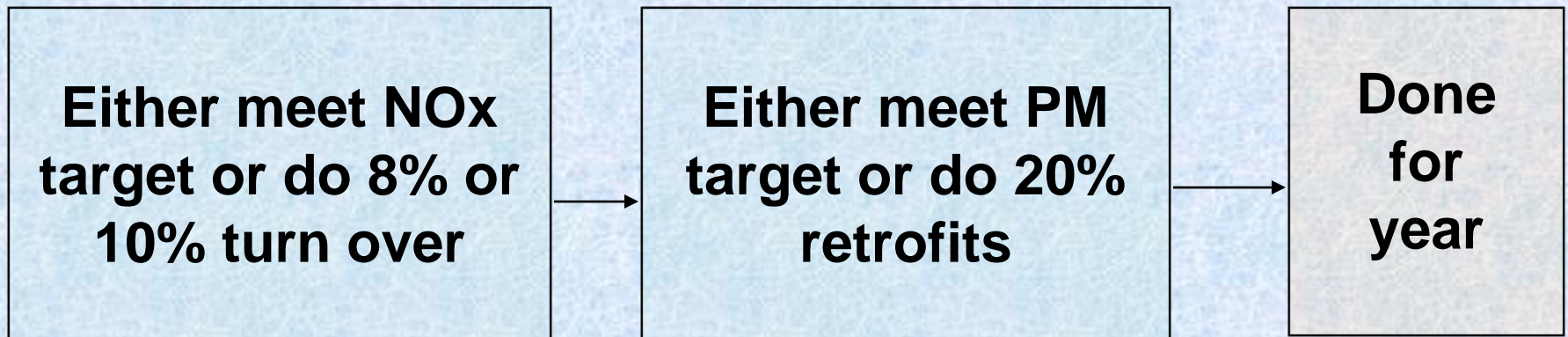
- Compliance requirements must be met by March 1 of each year

<b>Fleet Size Category</b>	<b>Dates and Requirements</b>
Large*	2010-2020 PM and NOx
Medium*	2013-2020 PM and NOx
Small	2015-2025 PM only

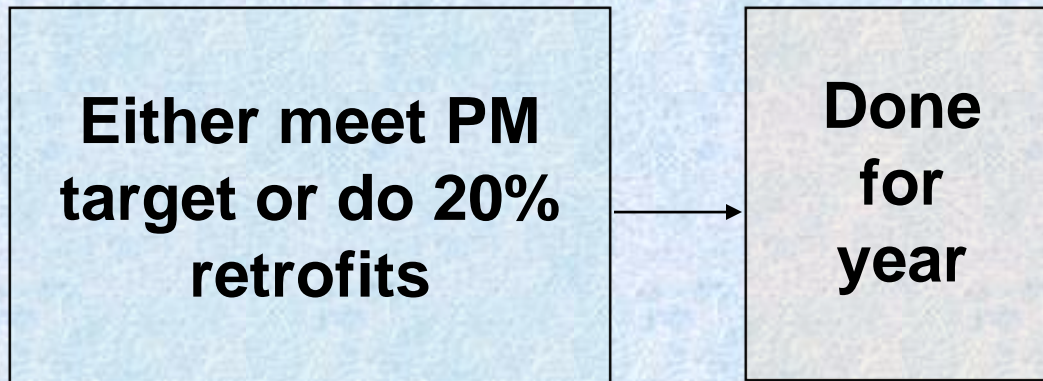
\* Same requirements for large and medium fleets, only initial compliance date varies.

# Annual Compliance Process

Large and Medium Fleets: NOx\* and PM Requirements



Small Fleets: PM Requirements ONLY



\*Captive attainment area fleets must only meet the PM requirements



# Other Requirements

- Restrictions on adding vehicles
  - Cannot add Tier 0 vehicles to fleet after March 1, 2009
  - Requirements to add cleaner vehicles depending upon fleet's compliance path
- Annual Reporting
  - Report changes made to fleet each year
  - Annual reporting date depends on fleet size
- Annual Recordkeeping
  - Fleet must keep additional records of Executive Officer exemptions granted, changes made to fleet between reporting periods, etc.

# Exemptions from Engine Turnover Requirements

- Small fleets
- Captive area attainment fleets
- Vehicles less than 10 years old
- Specialty vehicles if certain criteria are met
- Vehicles retrofit in past 6 years
- Tier 4 or Tier 4 Interim vehicles

# Exemptions from Retrofit Requirements

- Engines in vehicles less than 5 years old
- Engines for which there is no retrofit available or for which one cannot be safely installed
- New engines that come with an OEM diesel particulate filter
- Engines already retrofit with the highest level VDECS at time of installation

# Other Exemptions and Compliance Extensions

- Exempt from all but recordkeeping/reporting
  - Low-use vehicles
    - Operated less than 100 hours/year
  - Emergency vehicles
  - Dedicated snow removal vehicles
- Compliance extensions
  - Manufacturer delays for retrofits or new engines
  - Delay of Tier 4 interim or final vehicles



# Early Credit

- Early credit for actions taken before March 1, 2009
  - Double credit for PM retrofits
  - Single credit for repowers
  - Credit for replacement of Tier 0s in excess of an average 8%/year turnover rate between March 1, 2006 and March 1, 2009
  - Double credit in fleet averages for electric vehicles until 2016
- To assure early credit, purchases must be made by November 1st of this year

# Compliance Assistance and Outreach

- Staff will be available to work with individual fleets on their compliance plans
- Fleet average calculator available to fleets for compliance planning purposes
- Off-road Implementation Seminars
  - Over a dozen seminars throughout California from late July – August, 2008
  - ~1,300 attendees
  - Additional seminars planned starting late 2008
- Staff available to give off-road presentations at the request of fleet owners, industry groups, equipment dealers and manufacturers

# Off-Road Implementation Advisory Group (ORIAG)

- Informal committee of affected fleets, air districts, and industry representatives
- Goal is to help ARB to fine tune outreach, training, and implementation materials
- Members of the public welcome to attend
- First ORIAG meeting held May 12, 2008 in Sacramento
  - Two additional meetings held June and September
  - Fourth ORIAG meeting tentatively scheduled for November
- Contact Beth White ([eiwhite@arb.ca.gov](mailto:eiwhite@arb.ca.gov)) or visit <http://www.arb.ca.gov/msprog/ordiesel/oriag/oriag.htm> for more details



# Off-Road Contacts

## General Off-Road Regulation Questions:

**Kim Heroy-Rogalski, Manager  
Off-road Implementation Section**

[kheroyro@arb.ca.gov](mailto:kheroyro@arb.ca.gov)

(916) 327-2200

**Elizabeth Yura, Staff**

[eyura@arb.ca.gov](mailto:eyura@arb.ca.gov)

(916) 323-2397

Diesel vehicle information hot line:

(866) 6-DIESEL

(866) 634-3735

## ORIAG:

**Beth White, Staff**

[eiwhite@arb.ca.gov](mailto:eiwhite@arb.ca.gov)

(916) 324-1704

## DOORS:

**Cory Parmer, Staff**

[pparmer@arb.ca.gov](mailto:pparmer@arb.ca.gov)

(916) 323-1180

**Carl Moyer Program:**

**Dinh Quach**

[dquach@arb.ca.gov](mailto:dquach@arb.ca.gov)

(626) 350-6485

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Off-Road Regulation - [www.arb.ca.gov/msprog/ordiesel/ordiesel.htm](http://www.arb.ca.gov/msprog/ordiesel/ordiesel.htm)

Verified Devices - [www.arb.ca.gov/diesel/verdev/verdev.htm](http://www.arb.ca.gov/diesel/verdev/verdev.htm)

Carl Moyer Program - [www.arb.ca.gov/msprog/moyer/moyer.htm](http://www.arb.ca.gov/msprog/moyer/moyer.htm)