Fleet Rule for Transit Agencies

Implementation Update

November 2005
Kathleen Mead, Manager
Retrofit Implementation Section

California Environmental Protection Agency
Air Resources Board

Today’s Presentation

• 2005 Changes to the Regulation
• Reports Required January 31, 2006
• Actions for 2006
2005 Changes

• Transit Fleet Vehicle Requirements
  – adopted February 24, 2005
• Urban Bus Requirements
  – amended September 15, October 21, and 27, 2005

Transit Fleet Vehicle Requirements

“Transit Fleet Vehicle” means a vehicle greater than 8,500 (lbs) GVWR, powered by heavy-duty engine fueled by diesel or alternative fuel, owned or operated by a transit agency, and which is not an urban bus.
“Commuter Service Bus”

Defined as Transit Fleet Vehicle if:

• Powered by a heavy HD diesel engine or of a type normally powered by a heavy HD diesel engine
• Operates on a fixed route primarily during peak commute hours
• No passenger-initiated stops
• No more than 10 stops per day, excluding Park-and-Ride lots.

Truck Engine Certification

• Service Class
  – Heavy-duty (HD) Engine Is Used in a Heavy-duty Vehicle
    • Light HD <19,500 lbs. GVWR
    • Medium HD 19,500-33,000 lbs. GVWR
    • Heavy HD >33,000 lbs. GVWR

• Emission Stds: title 13, CCR, §1956.8
### TFV Compliance Deadlines

<table>
<thead>
<tr>
<th>Date</th>
<th>% PM reduction from baseline</th>
<th>Fleet NOx Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 1, 2005</td>
<td>0%</td>
<td>na</td>
</tr>
<tr>
<td>December 31, 2007</td>
<td>40%</td>
<td>3.2 or retire 1997 and earlier MY</td>
</tr>
<tr>
<td>December 31, 2010</td>
<td>80%</td>
<td>2.4 or retire 2001 and earlier MY</td>
</tr>
</tbody>
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### Extensions

- **Financial Hardship**
  - Section 2023(e)
  - <30 in transit fleet (both UB and TFV)
- **Unavailability of Technology for PM**
  - Section 2023(f)
- **Delay of Implementation for PM**
  - Section 2023(g)
  - <20 in transit fleet in 1 hour Ozone attainment
Transit Fleet Vehicles Only

- **Extension**
  - Service Contracts: Apply to Executive Officer for Up to 1 year delay for the termination of equipment or equipment and service contracts defined by FTA: vehicle lease, maintenance/lease, turnkey

- **Exemption**
  - Low Usage Vehicle: non-revenue with <1000 miles per year usage

Urban Bus 2005 Amendments

SCAQMD Alt Path Req.
Urban Bus Engine Stds.
September 15, 2005 Amendment

- Alternative Fuel Path is Mandatory in South Coast
- Beginning 1/1/2006 Through 2015
- Follow Alternative Fuel Path PM and ZEB Deadlines
- SCAQMD is Enforcing Rule 1192

SC Transit Agencies Affected

**Alternative Fuel Path**
- Commerce
- Culver City
- Foothill
- Glendale
- L.A. MTA
- L.A. DOT
- Omnitrans
- Orange County
- Riverside
- Santa Monica
- Sun Line

**Diesel Path**
- Gardena
- Long Beach
- Montebello
- Norwalk
- Santa Clarita
- Torrance
Board Action
October 20th and 27th Hearings

• Align with 2007 Truck HHD Std
  – Section 1956.8
• Diesel path agencies >30 Urban Buses
  – One NOx retrofit for each new purchase
    • 40%+ NOx reduction if available; otherwise 25%
    • Limited to available vehicles within transit agency
    • EO hardship appeal process
• Additional Process: 15 Day Changes

Reports Due in 2006
For 2005
Annual Reporting

• Annual Report Due 1/31/06:
  – Number, Engine Mfr & Make, Engine Model Year For All Engines in Buses, and Fuel Used as of 1/1
  – Alt.-Fuel Path List Bus Purchases & Leases, and Percentage of Alt. Fuel Buses Purchased or Leased

Reporting Requirements (continued)

• Alternative NOx Strategy Exemption, 7 TAs only
  – Shall Demonstrate Achievement of NOx Emission Benefits
  – Provide Update of Compliance Plan
  – Annual Reports Due Through 2016
Annual Reporting (continued)

- Transit Fleet Vehicles:
  - Number, Engine Mfr & Make, Engine Model Year For All Engines in Buses, and Fuel Used
  - January 1, 2005 Diesel PM Baseline
  - Actions to meet December 31, 2007 NOx Requirement

New Reporting Process

- Simplify Process
  - starting January 31, 2006 report
  - web based; register on line
  - text fields and drop down boxes
- Existing Report Information
- First Time Reporting
- PM and NOx Average Calculated
Actions Required in 2006
By Transit Agencies

Diesel PM Reductions

• Next requirement deadline is in 2007
  – January 1 for Urban Buses
    • 85% for Diesel Path
    • 60% for Alternate Path
    • January 1, 2002 PM Baseline
  – December 31 for Transit Fleet Vehicles
    • 40% Reduction of January 1, 2005 PM Baseline

(ARB will be following up on '04 and '05 Non-Compliance)
NOx Fleet Average

• Maintain Urban NOx Fleet Average
  – Applies to all transit agencies
  – 4.8 g/bhp-hr NOx as of October 1, 2002

• Plan for TFV NOx Fleet Requirement
  – 3.2 g/bhp-hr as of December 31, 2007

Contact Information

ARB Website:
www.arb.ca.gov/msprog/bus/bus.htm

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