Meeting Agenda

- Implementation Update
  - Reporting
  - Outreach
  - Safety
  - New DECS Verifications
- Legislative Amendments
  - BACT Changes
  - New Provisions for Early Credit
- Subcommittee Meeting Summaries
  - Fleets, DOORS, DECS

Reporting Timeline

- Currently in the middle of the reporting cycle
- Large fleets deadline – April 1, 2009
  - Large fleets continue to report
- Upcoming Deadlines
  - Medium fleets – June 1
  - Small fleets – August 1
Reporting Data so Far

- As of May 1, 2009, reporting data has accepted for
  - 81,000 Vehicles
  - 1,350 Fleets

- Additional information in the system
  - 12,000 Vehicles
  - 1,400 Fleets

Submittals and Data Review

- Approximately 2750 fleets using DOORS
- Roughly 90 requests for hardcopy forms

- Fleets reviewed for:
  - Completeness (serial numbers, model years)
  - Understanding the fields (engine family)
  - FAQs, guides, suggestions sent out in response

Vehicles Reported
January 1, 2009 to April 15, 2009

Certificate of Reported Compliance
Reporting Statistics

• ARB is reviewing the reporting data
• What types of summaries, analyses would be most useful?

Outreach

• Statewide training sessions
• Speaking to interested groups
• Mailings

Outreach

Training Seminars

• 2,090 attendees at the 22 state-wide training seminars across the state
• For future trainings staff is looking at:
  – Frequency
  – Class size
  – Locations (Sacramento, Fresno, and Los Angeles area only?)
  – Special trainings on the compliance planning tool
• Input is welcome
Speaking to Interested Groups

- **In the past several months, groups include:**
  - Contractors associations • Builders associations • Groundwater drilling • Telephone contractors • Equipment dealers • Golf courses • Cemetery groups • Mining industry • Landfill and recycling centers • Logging industry • City and municipal small business association • County fleet managers • West coast equipment shipping and distributors and others.
  - **Looking for more…**

Mailings and Outreach

- CSLB – all licensed contractors will receive a flyer with their renewal notice
- Did mailings to golf courses, cemeteries, dealers – Working on waste, retail, specialty contractors, more
- Poster and flyers available to dealers, others
- Radio spots on country music stations

- **Additional ideas?**

Guides, FAQs, Definitions

- Vehicle applicability
  - On-road, Agriculture, Rail, Portable, more..
- Credit provisions
  - Low use, Early credit
- Enforcement advisories
  - Idling, Disclosure, Reporting, Idling Policy, Adding Tier 0s

[www.arb.ca.gov/msprog(ordiesel/knowcenter.htm](http://www.arb.ca.gov/msprog(ordiesel/knowcenter.htm)

**What are other fleets asking ORIAG members?**

Safety
Safety

• ARB has proposed amendments to Title 8 regarding retrofit safety
• OSHSB has reviewed the proposed amendments & will discuss with ARB staff in the near future
• Once OSHSB proposes amendments to its Board, there will be a 45 day public comment period
• Upon completion of the public comment period, there will be an OSHSB Board hearing

ARB’s Goals for Safety

• Prevent harm to operators with objective, measurable criteria for safety issues
• Prevent any conflict of Cal/OSHA and ARB requirements for fleets
• Clear, consistent guidelines

Safety Proposal Details

• ARB proposes use of ISO5006 as visibility standard
  – Specific criteria for impact on field of vision
  – Defined by interruption of sight of operator
  – Objective analysis could be performed by registered professional engineers
• Additional provision for exhaust safety
• Under ARB’s proposal, if a registered PE well-versed in construction safety certifies the vehicle cannot safely be retrofit, then it is exempt

Devices Verified or Verifications Expanded

• Caterpillar DPF – Expanded Oct 24, 2008
  – Passive System
  – Rubber tired restriction lifted
  – HP cap raised to 600 HP
• Cleaire Lonestar – Conditionally Verified Dec 23, 2008
  – NOx (40%) and PM
  – Passive system
• Cleaire Phoenix – Conditionally Verified Mar 20, 2009
  – Active System
• ECS Purifilter – Conditionally Verified Oct 20, 2008
  – Passive System
Additional VDECS Available

**Active Systems**
- Cleaire Horizon
- ECS Combifilter
- HUSS Umwelttechnik FS-MK

**Passive Systems**
- DCL MINE-X Sootfilter

AB8 2X Legislatively Directed Changes

- As part of the budget negotiations, the California Legislature directed ARB to modify the Off-Road Regulation
- Not self-implementing – requires staff to develop regulation language

- Change to 2011 to 2013 BACT requirements
- Additional credit for retirements from 2006-2010
- Credit for reduced activity from 2007-2010

Legislatively Directed Changes

- Purpose of three new provisions
  - Each may reduce the stringency of the regulation in initial years for fleets affected by the economic climate
- Two workshops:
  - April 7 in Sacramento
  - April 29 in Diamond Bar
- Excellent feedback received, but some questions remain
Legislatively Directed Changes

- Staff report tentatively scheduled: June 5, 2009
- Board hearing on the proposed amendments: July 23/24, 2009

Revised BACT Schedule

(% Required Turnover / % Required Retrofit)

<table>
<thead>
<tr>
<th></th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Previously</td>
<td>8 / 20</td>
<td>8 / 20</td>
<td>8 / 20</td>
<td>8 / 20</td>
<td>8 / 20</td>
</tr>
<tr>
<td>With changes</td>
<td>8 / 20</td>
<td>4.8 / 12</td>
<td>4.8 / 12</td>
<td>14.4 / 36</td>
<td>8 / 20</td>
</tr>
</tbody>
</table>

Legislatively Directed Changes: Credit for Reducing Horsepower

- Credits overall reduction in horsepower from March 1, 2006 to March 1, 2010
- At the workshops, staff proposed limiting to the fleet’s oldest vehicles first
- Based on stakeholder input, now proposing to credit retirement of any vehicle (regardless of Tier)
Legislatively Directed Changes: Credit for Reduced Activity

- “Average annual hours”
  - ARB proposes to include horsepower in calculation
  - 12 month period to determine average annual hours

- “Between July 1, 2007, and March 1, 2010”
  - Average of July 1, 2007 activity is January to December of 2007
  - Average of March 1, 2010 activity would be Sept 2009 to August 2010
  - As fleets need to use the activity in March 2010, staff propose March 2009 to February 2010 as the second time period instead

Legislatively Directed Changes: Credit for Reduced Activity

- Records to show reduced activity
  - Hour meter and logs for each vehicle
  - Payroll/operator records
  - Maintenance logs
  - Overall fleet fuel use
  - Overall financial records

- Not all records equally reflect actual vehicle activity.

Legislatively Directed Changes: Credit for Reduced Activity

- Staff’s proposal
  - Full credit for complete records, such as hour meter logs, and possibly operator hours if vehicles are identified

  - To prevent awarding no credit for fleets without records for each vehicle, some credit awarded
    - Proposal – up to 15% credit for those with some records or means to demonstrate activity reduction

Combination of Credits

- For fleets with retirements and reduced activity, possibly count as:
  - Determine reduced activity in portion of fleet that was not retired
  - Would require records for each vehicle, not just overall fleet indicators
Combination of Credits
Example of Possible Solutions

<table>
<thead>
<tr>
<th>2006</th>
<th>2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Begin with 10,000 HP</td>
<td>Retired 2,000 HP Full Credit for Retired Horsepower</td>
</tr>
<tr>
<td>Activity Reduced by 50% in remaining 8,000 HP</td>
<td>Combined Credit</td>
</tr>
</tbody>
</table>

- End with: 2,000 + 4,000 HP credit to PM & NOx

Additional Ideas to Spur Early Action

Proposed
- Double credit for NOx retrofits
- Lifetime turnover exemption for retrofit vehicles

What else would spur actions?

Complexity of Credit Options

- Reduced activity
- Retirement in a shrinking fleet
- Turnover over 8% per year on average
- Repowers
- Retrofits (double credits)

How can ARB work with fleets to clarify and help select an option?

Subcommittee Reports

Fleets • DOORS • DECS
Fleets Subcommittee

- Dave Porcher: Chair

Diesel Emission Control Strategies (DECS) Subcommittee

- Charlie Cox: Chair

DOORS Subcommittee

- Jeff Wilson: Chair

Off-Road Contacts

Kim Heroy-Rogalski, Manager
Off-road Implementation Section
kheroyro@arb.ca.gov
(916) 327-2200

Elizabeth Yura, Staff
eyura@arb.ca.gov
(916) 323-2397

Safety:
Beth White, Staff
eiwhite@arb.ca.gov
(916) 324-1704

DOORS
doors@arb.ca.gov
(877) 59-DOORS

Carl Moyer Program:
Dinh Quach
dquach@arb.ca.gov
(626) 350-6485

Diesel vehicle information hot line:
(866) 6-DIESEL
(866) 634-3735

Off-Road Regulation - www.arb.ca.gov/msprog/ordiesel/ordiesel.htm
Verified Devices - www.arb.ca.gov/diesel/verdev/verdev.htm
Carl Moyer Program - www.arb.ca.gov/msprog/moyer/moyer.htm