



Public Workshop

Retooling The Carl Moyer Program

On-Road Controls Branch
Mobile Source Control Division

May 17, 2010

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
 Air Resources Board

Agenda

- ◆ Welcome and Introductions
- ◆ Workshop Objectives
- ◆ Timeline
- ◆ Overview of Retooling
- ◆ Carl Moyer Program Background
- ◆ Review Potential Revisions
- ◆ Additional Upcoming Changes
- ◆ Open Discussion

Workshop Objectives

- ◆ Provide ideas and information on the proposed revisions
- ◆ Obtain feedback on current proposed revisions
- ◆ Offer opportunities for stakeholders participation

Timeline

- ◆ Workshops

- ◆ May 17, 2010
- ◆ September 2010 (tentative)
 - ◆ September 14th : Sacramento
 - ◆ September 15th : El Monte



- ◆ Workgroup meetings

- ◆ Board Hearing

- ◆ February 2011: Guidelines Released for Public Review
- ◆ Board Meeting: March 24th, 2011

Overview of Retooling

- ◆ Two Phases of Retooling: Near-term and Long-term
- ◆ Respond to :
 - ◆ Newly adopted regulations
 - ◆ Stakeholder feedback
 - ◆ Changes in the economy
- ◆ Continue to ensure emission reductions continue to be achieved efficiently using public funds

Background: The Carl Moyer Program (CMP)

Objectives

- ◆ Improve air quality
- ◆ Complement, **not replace**, regulations
- ◆ Fund emission reductions by introducing low-emission technologies
- ◆ Keep to Health & Safety Code Requirements
 - ◆ Covered pollutants – ROG, NOx & PM
 - ◆ Eligible projects
 - ◆ Cost-effectiveness limit

Ensuring Surplus Emission Benefits

- ◆ Statutory requirements
- ◆ Current methodology
- ◆ Next Steps

Proposed Long-Term Revisions to the Carl Moyer Program

- ◆ Increase flexibility for currently funded source categories
- ◆ Continue efforts to streamline administrative requirements
- ◆ Add new source categories
- ◆ Update emission calculations

Affected Categories

- ◆ On-Road
- ◆ Off-Road
- ◆ Locomotive
- ◆ Marine
- ◆ Light-Duty Vehicle Retirement
- ◆ Agricultural Pumps
- ◆ Administration Requirements

On-Road Heavy Duty Vehicles Concepts

- ◆ Raise retrofit funding amounts up to cost-effectiveness limit (Moyer and VIP)
- ◆ Allow hours for usage in cost-effectiveness calculations (Moyer and VIP)
- ◆ Clarify funding opportunities for fleets that comply fully with the rules (Moyer and VIP)
 - ◆ Public Fleets
 - ◆ Solid Waste Collection Vehicles
 - ◆ Public Transit Agency Fleets



On-Road Heavy Duty Vehicles Concepts Cont.

- ◆ Raise Mileage Cap for Used Replacement Trucks to 250,000 miles (Moyer and VIP)
- ◆ Include Zero or Near-Zero Emission Vehicles (Moyer)
- ◆ Consider additional flexibility for school buses (Moyer)
- ◆ Add Optional Default Usage (Moyer)
- ◆ Allow higher funding levels for 0.20 g NO_x engines (VIP)

Off-Road Concepts

- ◆ Compression Ignition Chapter:
 - ◆ Clarify that federally-certified preempted engines are eligible
- ◆ Equipment Replacement Chapter:
 - ◆ Potential for tiered transactions
 - ◆ Additional methods to prove ownership
 - ◆ Creation of streamlined voucher program

Off-Road Large Spark Ignition Concepts

- ◆ Possible new funding opportunities
 - ◆ Early introduction of engines <1.0 liter meeting 2015 standards
 - ◆ Include evaporative emissions reductions
- ◆ Establish rental equipment eligibility



Locomotives Concepts

- ◆ Include Head End Power replacement criteria
- ◆ Align Emission Factors with Goods Movement
- ◆ Delete requirement for Electronic Monitoring Unit
- ◆ Evaluate eligibility of Hoods/Bonnets
- ◆ Clarify definitions of Class III/Industrial

Marine Concepts

- ◆ Clarify eligible shore power project costs
- ◆ Coordinate with Goods Movement marine project criteria
- ◆ Review expenditure criteria



Light-Duty Vehicle Retirement Concepts

- ◆ Guideline changes must be consistent with the ARB's vehicle retirement regulation
- ◆ Update emission calculations
 - ◆ Using latest EMFAC version to include two additional years
- ◆ Expand program or create new chapter to include heavier vehicles
 - ◆ 8,500 to 10,000 pounds GVW rating
 - ◆ 10,000 to 19,500 pounds GVW rating

Agricultural Sources Concepts

- ◆ Add voucher type program for irrigation pump engines
- ◆ Establish rental equipment eligibility
- ◆ Clarify Tier 1 and 2 engine repowers require cleanest engine available
- ◆ Add guidance for allowable costs
 - ◆ Project vs. infrastructure
 - ◆ Solar panels and windmills funding



Administrative Requirement Concepts

- ◆ Update funding year close-out
- ◆ Add Rural Assistance Program (RAP) section
- ◆ Increase transparency and efficiency
- ◆ Reduce contractual criteria
- ◆ Streamline reporting requirements



Potential New Categories

- ◆ Lawn and Garden Equipment Replacement
- ◆ Emergency Vehicle Replacement
 - ◆ Fire Apparatus
- ◆ Demonstration and Data Development Projects

Lawn and Garden Equipment (LGE) Replacement

- ◆ Gas lawnmowers replaced by electric
- ◆ What types of LGE should qualify?
 - ◆ Prioritizing based on:
 - Must be cost effective
 - Expanding existing LGER funded by AQIP & Districts
 - Interest level from districts and industry
- ◆ Questions/Issues
 - Viable program that conforms to statute requirements
 - Factors for determining project life
 - Funding amount must be enough incentive
 - Equipment operation confirmation method

Emergency Equipment Replacement

- ◆ Focus on fire apparatus
- ◆ Exempt from in-use regulations
- ◆ Considering vehicle replacement and engine repowers
- ◆ Considering Truck Reuse option
- ◆ Outstanding Questions
 - ◆ Verifying and reporting annual usage



Demonstration and Data Development Projects

- ◆ Must meet statutory requirements - surplus and cost effective
- ◆ Added uncertainties; More data required
- ◆ Not intended to provide funds to complete or accelerate commercialization
- ◆ Outstanding Questions:
 - ◆ Demonstration and Data Development Plan
 - ◆ Funding Limits
 - ◆ Implementation

Additional Upcoming Changes

- ◆ Respond to Commercial Harbor Craft regulatory amendments scheduled for June 2010
 - ◆ Change in crew & supply boats, barges and dredge engine eligibility
 - ◆ Update to off-road auxiliary engines
- ◆ Respond to the Statewide Truck & Bus and Off-Road In-Use Regulations scheduled for September 2010
- ◆ Carl Moyer Program: Executive Officer Guideline Revisions
 - ◆ On-Road
 - ◆ Administrative

Contacts

- ◆ Retooling Homepage: <http://www.arb.ca.gov/msprog/moyer/retooling.htm>

- ◆ Submit comments to: cmretool@arb.ca.gov

- ◆ **Source Categories:**

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Open Discussion

Submit Comments to:

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