

The Lower-Emission School Bus Program



March 12, 2004
Public Workshop

California Environmental Protection Agency



Air Resources Board

Agenda

- Program Overview
 - Background
 - Benefits
 - Status
- 03-04 FY Funding Allocations
- 03-04 FY Program Timetable
- Proposed Technical Revision
- Schedule and Contact Information
- Open Discussion and Q&A

Background

- ARB approved original Program Guidelines in December 2000
- The California Energy Commission (CEC) and the local air districts implement the program using Program Guidelines
- ARB distributes funding to the CEC and to local air districts

Program Benefits

- School children's exposure to toxic diesel particulate matter (PM) reduced
- Smog-precursor reductions: oxides of nitrogen (NO_x)
- Safe, lower-emitting new buses: old buses off the road
 - Ultra low-sulfur diesel
 - Alternative-fuel
- Advances in retrofit technology
- School transportation \$\$

Program Status

- Funding for first 2 years (00-01 & 01-02 FYs)
 - General Fund
 - \$49.5M for new bus purchases
 - \$16.5M for in-use diesel retrofits
- \$4.92M available in 3rd year (02-03 FY)
 - Proposition 40/Assembly Bill 425
 - Funding for new buses only - no retrofits

Program Status

(continued)

- About 440 old school buses replaced with new, safe lower-emitting models
 - ~100 more replaced through local air district match
- About 3000 in-use diesel bus retrofits
 - Retrofit component on-going
 - Diesel particulate filters and diesel oxidation catalysts
- \$4.6M now available for 03-04 FY
 - Proposition 40/Assembly Bill 425
 - New buses only - no retrofits
 - About 35 buses statewide

FY 03-04 Funding Allocations

(Methodology Unchanged)

Self-Administered Program

Bay Area AQMD	\$900,000	7
South Coast AQMD	\$2,030,000	16
San Diego County APCD	\$390,000	3
Sac Metro AQMD	\$160,000	1-2

CEC-Administered Program

Monterey Bay Unified APCD	\$95,000*	1
San Joaquin Valley APCD	\$425,000*	3-4
Ventura County APCD	\$102,000*	1
CEC Pool (all other air districts)	\$498,000*	4
TOTAL	\$4,600,000	36-38

*Total CEC allocation is set at \$1.12M but regional allocations within CEC-Administered Program are approximate

FY 03-04 Program Timetable

- By 6/30/2004: ARB enters into funding agreements with air districts/CEC
- By 11/1/2004: School districts apply for new bus funding
- By 3/1/2005: New buses ordered from distributors
- By 12/31/2005: All new buses delivered
- By 3/1/2006: Final reports due to ARB from air districts and CEC

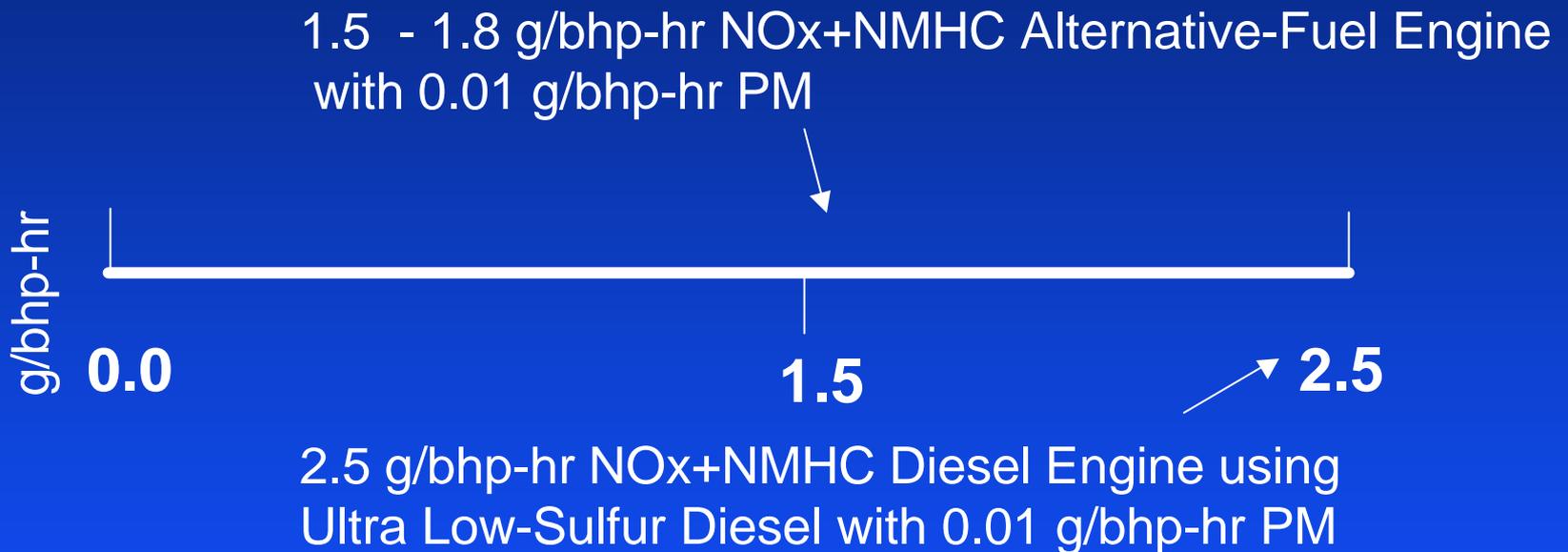
Proposed Technical Revision

- Incorporate 2004+ model year NOx + NMHC engine standard as “ceiling” standard
 - All engines must certify to or below 2.5 g/bhp-hr NOx + NMHC emission standard

PM Emission Standard Criteria Unchanged

- PM emission standard criteria unchanged from previous program year
 - Reduced-emission PM certification levels
 - Exhaust aftertreatment required on diesel and alternative-fuel engines

2004 Model Year Engines Used in School Buses



Engine Emissions Requirements for 2004+ Model Year Engines

- 2.5 g/bhp-hr NO_x + NMHC
- 0.10 g/bhp-hr PM

Other Program Provisions Unchanged

- Previous policies remain in force
 - Funding only to replace pre-1987 buses
 - Reduced school district match for replacing pre-1977 bus
 - Alternative-fuel/diesel funding split as statewide goal
 - Environmental justice provisions of Assembly Bill 1390 (Statutes of 2001, Chapter 732)

Schedule

- Early April: Public release of draft updated Guideline Addendum
- Late April: Public release of final updated Guideline Addendum
 - No Board Hearing, as no policy changes
- May - June: Enter into funding contracts with local air districts and the CEC

Contact Information

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Open Discussion

Q & A