



**Public Workshop to Discuss
Reducing Emissions from
In-Use Commercial Harbor Craft**

Cleaner Fuels for Commercial Harbor Craft

March 23, 2004

California Environmental Protection Agency



Air Resources Board

Why Evaluate the Use of CARB Diesel by Harbor Craft?

- ARB Public Hearing - July 24, 2003
- ARB Status Report - October 23, 2003
 - ARB staff directed to evaluate the use of cleaner fuels by harbor craft and intrastate locomotives
- ARB SIP Summit - January 13-14, 2004

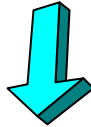
Harbor Craft Fueling Patterns

- Operate locally and regionally
- Fueled primarily at California locations
- Already some use of higher quality fuels
- Opportunities for additional use of cleaner fuels

In-Use Sulfur Levels of Transportation Fuels Consumed in California (ppmw)

Fuel Type	Current 2003	Anticipated 2006/2007
CARB Diesel	140	10
EPA Diesel		
On-Road	360	10
Non-Road	3,200	340*
Marine Distillate	340-20,000	No Change
Marine Bunker Fuel	28,000	No Change

Important Air Quality Benefits When Harbor Craft use CARB Diesel



CARB Diesel:

Harbor craft

- ~25% *PM Reduction*
- ~10% *NOx Reduction*
- *Greater use of add-on controls*

ARB Evaluation Process

- Gathering information on harbor craft fuel use (e.g., engines, fuel use)
- Conduct workshops
 - Next fuels workshop - April 12, 2004
- ARB Board Public Hearing
 - Tentatively scheduled for 4th Quarter 2004