



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

Regulatory Approaches

March 23, 2004

California Environmental Protection Agency



Air Resources Board

ARB Regulations Establish BACT Requirements

- **Best Available Control Technology**
 - **Goal: Establish emission standards or operational requirements that represent the highest level of control in consideration of technological feasibility and economic practicability**
- **Consider overall reduction in ambient NO_x, ROG, and PM levels, and reduction in potential near source cancer risk from PM emissions**

BACT Strategies Used in ARB Regulations

- Require compliance with emission standards
 - **PM, NO_x, HC, NMHC+NO_x, CO**
 - **Phased-in implementation**
 - **Fleet Averaging**
- Require use of Verified control equipment
- Require the use of Certified Engines
- Require the use of CARB diesel

Initial Regulatory Concepts for Commercial Harbor Craft

- Use CARB diesel-fuel
- Emission standards for PM, NO_x and ROG that would be progressively more stringent, and phased-in over time
 - **Flexibility in meeting standards: Repower, Retrofit, Alternative Fuels**
 - **Phased-in Approach for Fleets: Phased-in implementation, Fleet Averaging.**

Next Steps

- ARB staff will work with interested stakeholders to develop Draft Regulatory Concepts
- Next Workshop tentatively scheduled for June
- ARB will present Draft Regulatory Concepts for discussion at next Workshop