

Maritime Air Quality Technical Working Group



Long Beach, California
April 9, 2002

California Environmental Protection Agency



Air Resources Board

Update - Clean Air Plan

- **Proposed CAP released on web at:**
<http://www.arb.ca.gov/planning/caplan/caplan.htm>
- **Schedule delayed**

Update - Clean Air Plan

- **Proposing six maritime related measures**
- **Two new measures since last Maritime Working Group meeting**
 - **Marine 5: Pursue Approaches to Reduce Land-Based Emissions at Ports**
 - **Marine 6: Pursue Approaches to Reduce Truck Emissions at Ports**

Proposing Six Measures

- **More Stringent New Engine Standards**
- **In-Use Emissions from Harbor Craft**
- **In-Use Emissions from Oceangoing Ships**
- **Advanced Technology & Innovative Strategies**
- **Port-Specific Land-based Strategies**
- **Port Clean Truck Strategies**

Proposed Marine 1 - More Stringent New Engine Standards

- **Revise IMO Standards**
- **Revise U.S. EPA “Tier II” National Harbor Craft Standards**
- **Adopt U.S. EPA Standards for Oceangoing Ships**
- **Mid-term Measure, Implementation 2005-2010**

Proposed Marine 2 - Reduce In-Use Emissions from Harbor Craft

- **Add-on Control Equipment**
- **Use of Cleaner Fuels**
- **Combinations of both**
- **Near-Term, Implementation in 2005**

Proposed Marine 3 - Reduce In-Use Emissions from Oceangoing Ships

- **Require Use of Cleaner Fuels**
- **Opacity Limits**
- **Incentive Programs**
- **Mid-term, Implementation in 2005-2010**

Proposed Marine 4 - Advanced Technologies & Innovative Strategies

- **Both Harbor Craft and Oceangoing**
- **Fuel Cells/Solar Power**
- **Cold Ironing**
- **Operational Controls**
- **Long-term, Implementation post 2010**

Proposed Marine 5 - Port Specific Strategies for Land-Based Sources

- **Create Port Specific Emission Inventories**
- **Assess impacts of CAP and determine if additional emission reductions needed**
- **Identify and implement any necessary port-specific measures**
- **Near-Term, Implementation in 2005**

Proposed Marine 6 - Pursue Approaches to Reduce Truck Emissions at Ports

- **Develop strategies to reduce emissions from heavy-duty diesel trucks**
- **Three Pronged Approach**
 - **Education Program**
 - **Retrofit control devices**
 - **Operational Strategies**
- **Near Term, Implementation in 2005**

Comments on Marine CAP Proposals Welcome

Contact:

Paul Milkey

Air Resources Board

Stationary Source Division

(916) 327-2957

pmilkey@arb.ca.gov

Update - Vessel Speed Reduction MOU

- **MOU requests that ships voluntarily slow to 12 knots within 20 nm of the ports of LA/LB**
- **Implemented May 1, 2001, as a demonstration project**
- **MOU on ARB website at:**
 - ***<http://www.arb.ca.gov/msprog/offroad/marinevess/documents/mou.pdf>***

MOU Action Items Needed

- **MOU addendum calls for:**
 - **Alternative Control Plan**
 - **monitoring and reporting procedures**
 - **Enforceability provisions**
 - **Procedure for estimation of SIP credits**

Progress on MOU Action Items

- **On-going discussions**
- **Draft ACP language developed**
- **Draft procedures outlined for other action items**

Remaining Tasks

- **Need to incorporate conceptual procedures into formal MOU language**
- **Release revised draft MOU to Maritime Working Group**
- **U.S. EPA to propose approval of MOU in California SIP**