Maritime Air Quality Improvement Plan

Stakeholder Kick-Off Meeting April 10, 2007



MARITIME AIR QUALITY IMPROVEMENT PLAN

Geographic Scope

Presented by:
Roberta Reinstein
Port of Oakland
and
Margaret Gordon
West Oakland Environmental Indicators Project





Pollutants and Sources

Presented by: Environ International Corp.



Air Emissions Sources at the Port

- · Ocean Going Vessels
- Harbor Craft
- Cargo Handling Equipment (CHE)
- Trucks
- Trains
- Construction





MARITIME AIR QUALITY IMPROVEMENT PLAN

What's Emitted

Criteria Pollutant

Impact

Diesel Particulate Matter (DPM)



Local

Nitrogen Oxides (NOx): can contribute to ozone and PM formation

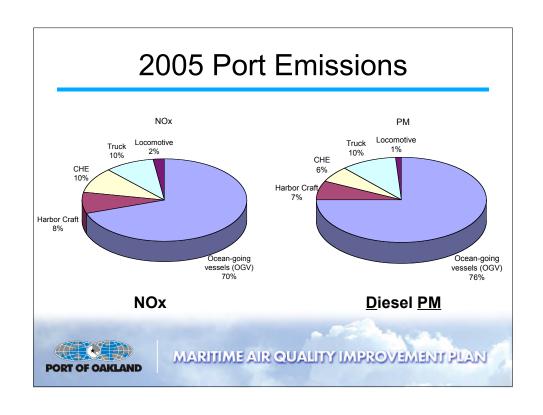


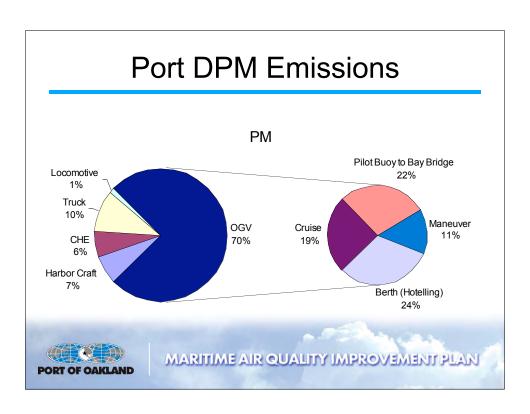
Regional

Other regulated pollutants:

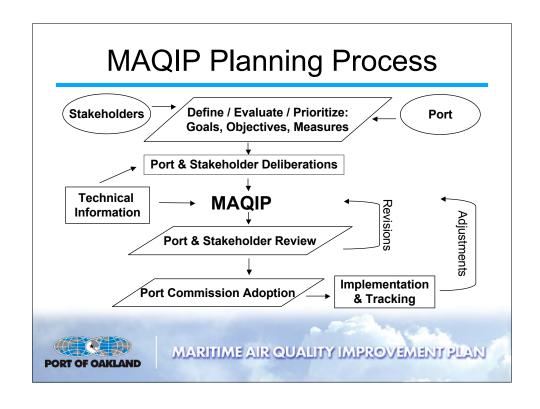
- ■Sulfur Oxides (SOx)
- ■Reactive Organic Gases (ROG)
- ■Carbon Monoxide (CO)
- ■Non-Diesel PM







Development of the Maritime Air Quality Improvement Plan MARITIME AIR QUALITY IMPROVEMENT PLAN



MAQIP Elements

- · Goals and objectives
- Analysis of current & future conditions



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MAQIP Elements (cont.)

- Potential control measures
 - Emission reductions
 - Feasibility analysis
 - Cost/benefit analysis
- Selected air quality improvement strategies
 - Future year emission estimates
 - Implementation plan



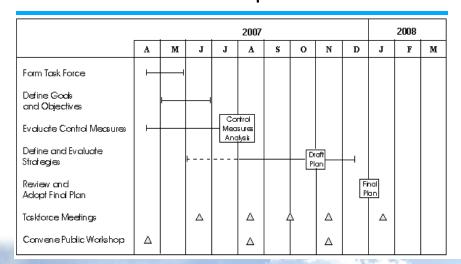
MAQIP Technical Development

- · Define baseline conditions
- Select planning horizon(s)
- Define future port activity
- · Identify potential control measures
- Evaluate alternative control strategies
- Evaluate implementation mechanisms
- Tracking/monitoring



MARITIME AIR QUALITY IMPROVEMENT PLAN

Draft MAQIP Development Schedule



PORT OF OAKLAND

Regulatory Context: ARB Goods Movement Emission Reduction Plan

Presented by: Sierra Nevada Air Quality Group (Bill Sylte)



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Statewide Goals

- Reduce DPM-related health risk by 85% by 2020
- Reduce emissions to 2001 levels by 2010
- Ensure risk reduction in local communities
- Attain air quality standards



Regulation

- Major emissions reductions at Port of Oakland
- Cargo handling & OGV auxiliary engines fuel requirements adopted in 2005
- Other rules affecting OGV main engine fuels, shore power, harbor craft, and port trucks scheduled for adoption in 2007



MARITIME AIR QUALITY IMPROVEMENT PLAN

Challenges

- · Ambitious schedule
- · Cost & cost effectiveness
- · Limits to jurisdiction
- · Port differences
- Compliance
- Social/economic/labor



I- Bond

Presented by: Roberta Reinstein, Port of Oakland



MARITIME AIR QUALITY IMPROVEMENT PLAN

Background

- \$1 billion earmarked for "goods movement-related" air quality projects STATEWIDE
- Competing with other regions, in particular Los Angeles/Long Beach for funding
- BUT, not all funds will go to southern California



Status Update

- Eligibility criteria and time line for I-Bond program are uncertain
 - More info by Fall 2007
- Level of program development influences likelihood of receiving funding
- Community participation and support are key selection factors for the ARB



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Library

http://www.portofoakland.com/environm/

