Cleaning the Air Conference

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Southern California Air Program
Ports of LA and Long Beach
Facts: Ports of LA and LB

- POLA is the largest port in the nation
  - 43 miles of waterfront and 7500 acres total
    (3300 is water; 4200 is land)
- POLA and POLB combined qualify as the 5th largest port in the world
- Over 40,000 trucks service these ports every day
- ~40% of the entire nation’s goods pass through these ports
1 Large Container = 2 “Twenty Equivalent Units” (TEU)
Figure 1: National Truck Flows To/From California

CALIFORNIA
Total Combined Truck Flows (1998)
Figure 2: National Rail Freight Flows To/From California
Air Pollution from Goods Movement Activities:

- 2400 premature deaths and 1 million school absences every year. Half of those in our basin.
- By 2020, state will incur $200 billion in health impacts.
- For every $1 invested in reducing goods movement pollution, the state receives $3-$8 in benefits from health impacts avoided.

Goods Movement Action Plan – Comparison of Smog Pollution Sources

Estimated 2005 NOx Emissions in the South Coast Air Basin (Tons/Day)

Estimated 2020 NOx Emissions in the South Coast Air Basin (Tons/Day)
Goods Movement Action Plan – Comparison of PM Pollution Sources

Estimated 2005 Diesel PM Emissions in the South Coast Air Basin (Tons/Day)

- Off-road Equipment
- Port-related
- On-road Trucks
- Stationary Sources

Estimated 2020 Diesel PM Emissions in the South Coast Air Basin (Tons/Day)

- Port-related
- Off-road Equipment
- On-road Trucks
- Stationary Sources
SCAQMD Cancer Risk Study

Model Estimated Risk From All Emission Sources

South Coast Air Quality Management District

1,531/Million
AQMD staff remains concerned that operational emissions are underestimated for on-road vehicles . . . The 75 percent reduction is not appropriate for the overall fleet emission factor. . . [A]pplication of the 75 percent reduction should not be used as it inappropriately accounts for future federal emission standards into the overall vehicle fleet.”

- AQMD Comments to FEIS/R (July 30, 2004)
AQMD urged Port to consider over 20 mitigation measures for trucks, ships and train idling.

South Coast
Air Quality Management District

Provide minimum buffer zone of 300 meters between truck traffic and sensitive receptors;

Restrict truck idling; Restrict operation to “clean” trucks;

Provide electrical hook-ups for trucks that need to cool their load;

Require the use of land-based power when berthed;

EPA also urged Port to consider additional mitigation

EPA Comments to RDEIS/R Oct. 8, 2003

**Recommendation:** Because of potential adverse effects on low-income and minority communities, the FEIS/R should address the feasibility of implementing additional air quality-related mitigation to reduce emissions of DPM and other pollutants from construction and operations at POLB.

**Recommendation:** The FEIS should address the feasibility of additional mitigation to reduce emissions from marine vessels, tugboats, trucks, trains and other source categories from operation of this project.

**Recommendation:** The FEIS should identify if additional mitigation may be feasible to reduce the project’s cumulative air quality impacts, including potential health risks to low-income and minority communities.
Draft Appendix IV-A: Stationary Source Control Measure

BACKSTOP MEASURES FOR INDIRECT SOURCES OF EMISSIONS FROM PORTS AND PORT-RELATED FACILITIES
[NOX, SOX, PM]

CONTROL MEASURE SUMMARY

Source Category: Ports and Port-related Sources (e.g., Marine Vessels, Locomotives, Trucks, Cargo Handling Equipment, Harbor Craft and Stationary Equipment)

Control Methods: Port and port facility emission control plans, contractual requirements, rules, tariffs and incentives/disincentives to implement measures including:
- Aftertreatment for diesel equipment
- Non-diesel fueled equipment using LNG, CNG, fuel cells, etc.
- Low sulfur fuels
- Emulsified diesel fuel with diesel oxidation controls
- Electricity-powered systems including shore power for marine vessels
Eyes on the Ports

NATURAL RESOURCES DEFENSE COUNCIL ♦ COALITION FOR CLEAN AIR
AMERICAN LUNG ASSOCIATION OF CALIFORNIA
BLUEWATER NETWORK - A DIVISION OF FRIENDS OF THE EARTH
BREATHE CALIFORNIA OF LOS ANGELES COUNTY ♦ CALIFORNIA EARTH CORPS
CALIFORNIA LEAGUE OF CONSERVATION VOTERS ♦ CALIFORNIA SAFE SCHOOLS
COALITION FOR A SAFE ENVIRONMENT
COMMUNITIES FOR A BETTER ENVIRONMENT
FELLOW OF F.A.C.E.P. AND SAN PEDRO COMMUNITY REPRESENTATIVE
HARBOR WATTS ECONOMIC DEVELOPMENT CORP
INTERNATIONAL BROTHERHOOD OF TEAMSTERS
LONG BEACH ALLIANCE FOR CHILDREN WITH ASTHMA
LOS ANGELES ALLIANCE FOR A NEW ECONOMY
PALISADES RESIDENTS ASSOCIATION ♦ PLANNING AND CONSERVATION LEAGUE
REGIONAL ASTHMA MANAGEMENT AND PREVENTION INITIATIVE
SAN PEDRO AND PENINSULA HOMEOWNERS COALITION
SAN PEDRO AND PENINSULA HOMEOWNERS UNITED, INC.
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