Port of Los Angeles Clean Air Program

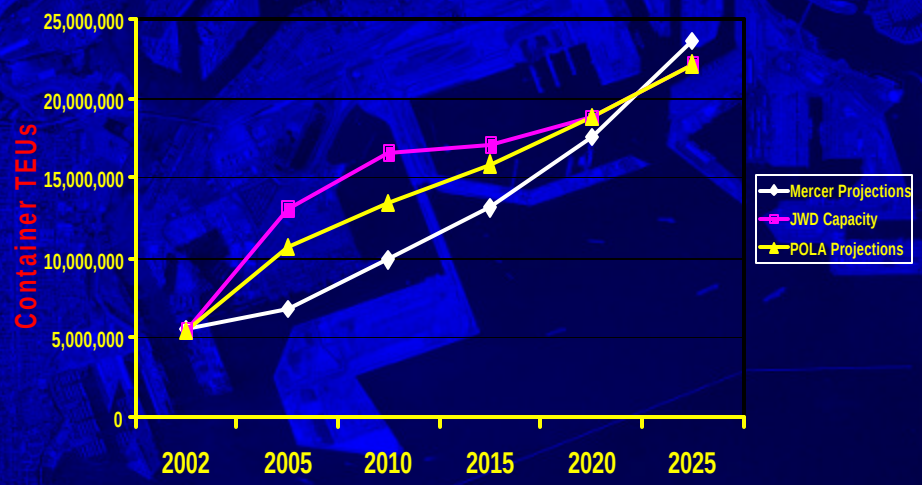
California Air Resources Board

Maritime Air Quality Technical Working Group

03 Dec 03

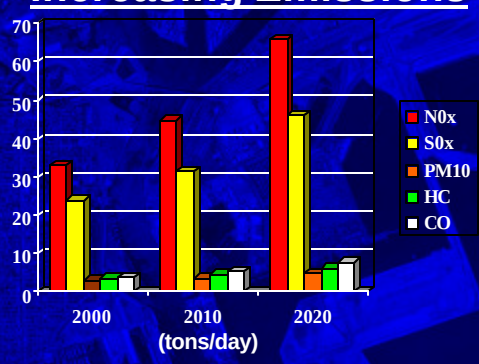
T. L. Garrett

Port of Los Angeles Cargo Growth Projections



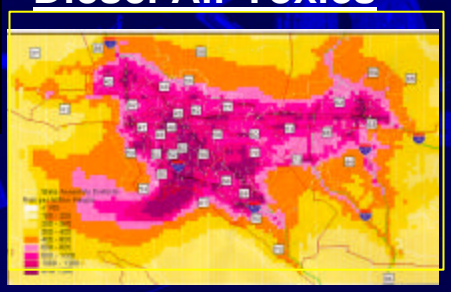
San Pedro Bay Air Quality Issues

Increasing Emissions



(Marine Vessel Emission Inventory SCAQMD Sep. 1999)

Diesel Air Toxics



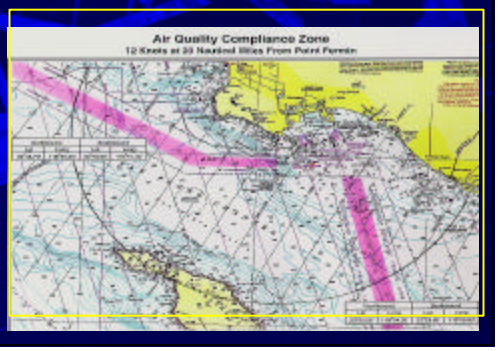
(Multiple Air Toxics Exposure Study SCAQMD Mar. 2000)

POLACAP

- Voluntary
- Feasible (It Has to Work)
- Cost Neutral (Incentives)

Ship Emission Control

- Speed Reduction
- Low Sulfur Fuels
- Retrofits



Alternative Maritime Power (AMP)

Harbor Work Boats

- Carl Moyer
- Shore Power

Switch Locomotives

- Accelerated Turnover
- New Technologies

Diesel On-Dock Equipment Control

Alternative Fuel Program

POLACAP 2002/2003

Port of Los Angeles	$2,837,500
NOx & PM Match	($1,000,000)
+ CARB/SCAQMD	$2,477,000
TOTAL POLACAP	$5,314,500

POLACAP
Emission Benefits

- Vessel Speed Reduction 365 ton/yr NOx
- Emulsified Diesel Fuel 250 " NOx
  w/ Diesel Ox. Cat 24 " PM
- Harbor Craft Repowers 100+ " NOx
  1+ " PM
- AMP 1 ton/dy NOx
  200 lbs/dy PM

POLACAP

Thank you!
Questions?