



**APM TERMINALS**

## Faster Freight Cleaner Air

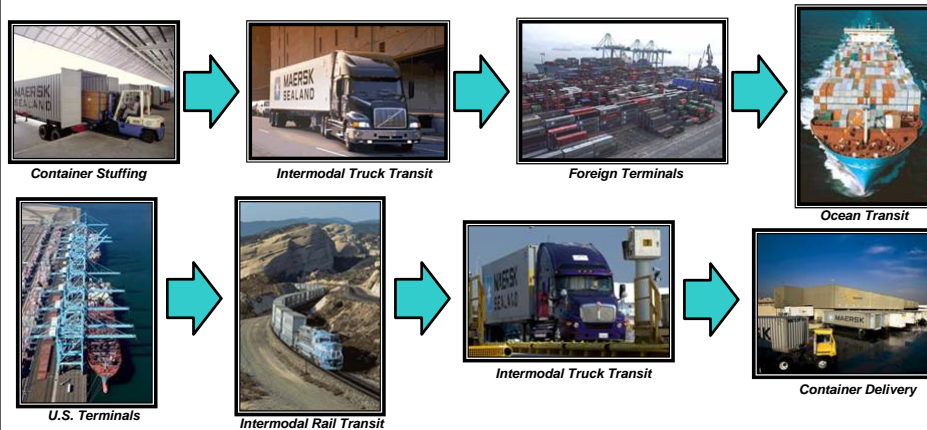
Seattle, WA

May 16, 2007

*A.P. Moller – Maersk*



## *Inter-modal Chain of Custody*



**APM TERMINALS**

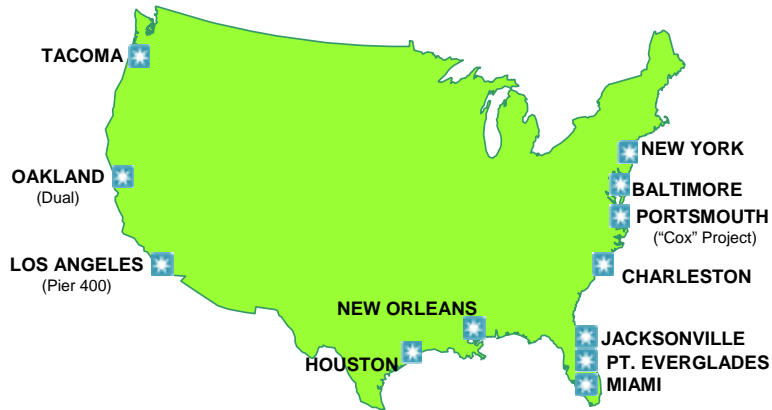
Innovative Technologies &  
Programs

VESSELS

TERMINALS



## APM TERMINALS



*Largest Terminal Operator in North America*



## APM TERMINALS

### TERMINALS:

- Optical Character Recognition (OCR)
- Differential Global Positioning Satellite
- On-Dock Rail

Efficiency ↑

Emissions ↓







# APM TERMINALS



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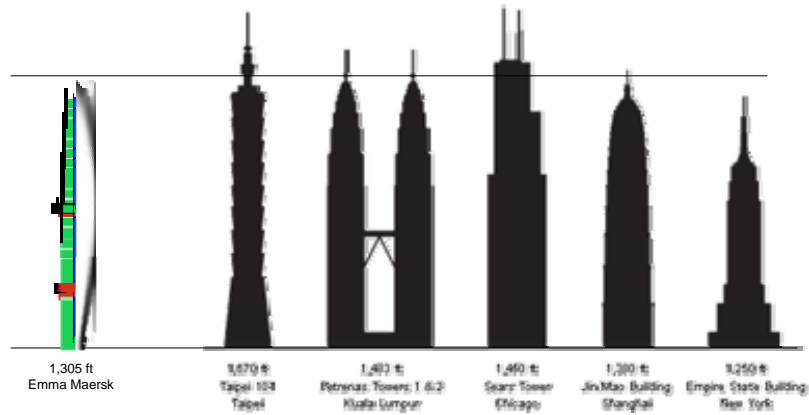
## APM TERMINALS

### SHIPS:

- Fuel
- Waste Heat Recovery System
- Actively under consideration
  - Water Injection (NOx)
  - Hydrogen
  - Particulate Filters
  - Scrubbing Systems



## How big is Emma Maersk?



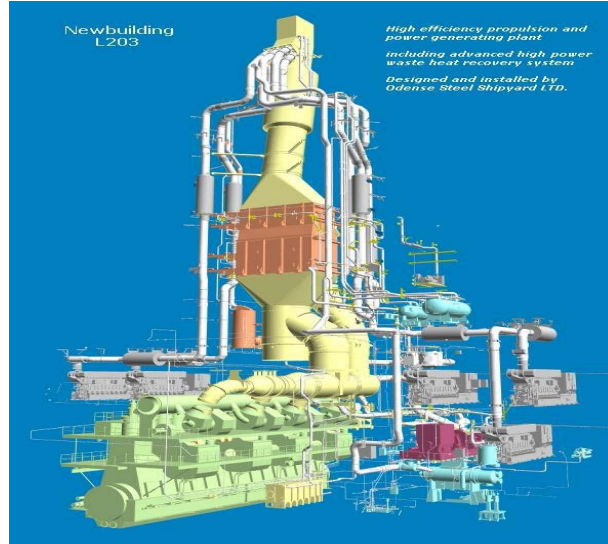
## APM TERMINALS

### FUEL SWITCH:

- March 2006
- 0.20 % sulfur MGO
- Main & Auxiliaries
- Over 60 vessels to date
- Continue to evaluate
- HFO 3.0 % (avg) MGO 0.18 % (avg)



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