



Homeland Security



CG Perspective Marine Port Air Quality Safety & Security Considerations

West Coast Region
Conference
April 21, 2004

USCG Marine Transportation System Protection Goals

- Security
 - Prevent terrorists attacks within U.S. Maritime Domain
 - Reduce America's vulnerability within U.S. Maritime Domain
 - Protect U.S.
- Safety
 - Provide safe and environmentally secure MTS



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Environmental Regulation Impacts

- Optimal Hierarchy
 - International implementation most cost-effective & ensures competitiveness.
 - Federal: Where Int'l efforts insufficient -apply domestic standards to protect our environmental/health interests
 - Regional/State: Must remain compatible with federal and international standards for consistency
- Avoids unintended adverse safety/security impacts



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Safety & Security Considerations for Air Quality Improvement Measures

- Cold Ironing
 - Common practice in U.S. Naval fleets
 - Commercial application a bit more complex
 - Need to fully analyze impacts of full/partial shutdown of shipboard auxiliary power plant
 - Some auxiliary systems required for safety; e.g., IGS
 - Need to overcome crew inhibitions regarding loss of vessel self-sufficiency and redundancies
 - Potential inability to rapidly move vessels from dockside in emergency; security and safety reasons.
 - Loss of shore power in an emergency could delay safety system restoration, but should be accommodated by re-engineering



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Safety & Security Considerations for Air Quality Improvement Measures

- Fuel System modifications
 - Need to ensure that adjustments to fuels don't cause breakdowns in transit waters
 - Fuel Switching as resulted in numerous disabled ship situations in close proximity to shore or other vessels
- Speed Limits or operational controls on engines to reduce emission loads
 - Not viable if mechanical restrictions imposed to govern engines
 - Must consider navigation safety management; VTS
- Emission Control Areas



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Challenges-Partnerships Are Key

- CG work with the private sector ensure regulations are consistent and fair, address safety and security concerns while minimizing cost & impact on the flow of commerce.
- No one agency ... company ... or country can do this alone



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