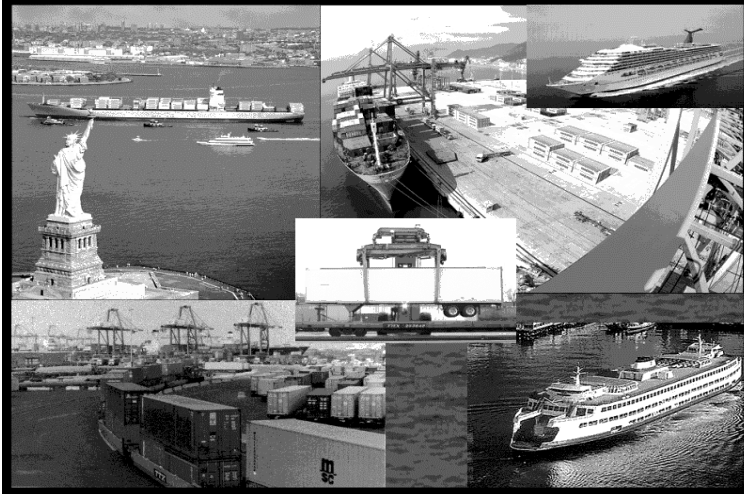


Marine Vessels & Air Quality

DOT & MARAD Activities and Perspective



*Michael C. Carter, Director
Office of Environmental Activities
U.S. MARITIME ADMINISTRATION*

Marine Transportation System Perspective

- Vessel Air Emissions is but one of the many environmental challenges
 - E.g., Dredging and Ballast Water
- Environmental and other system challenges must be addressed in the context of the system and priorities must be developed

Vessel Emissions Strategy Considerations

- Identify the Drivers/Goals
 - Global Climate Change
 - Local/Regional Air Quality
 - Energy Conservation
 - Reduced Reliance on Petroleum
 - Non-environmental drivers
 - Local, state, regional economics

Considerations Continued

- What is the best level of approach?
 - International
 - National
 - Regional, state, local

Considerations Continued

- Identify potential unintended consequences
 - Cargo diversion
 - Modal shift
 - Landside Congestion
 - Re-flagging
 - National Security implications

Considerations Continued

- Availability of Technology
 - Tech Transfer from landside applications
 - Demonstrations of viability for marine application
 - Availability of resources for cost sharing
 - Ability to defray costs to owner/operator to encourage new applications, & incentives

DOT & MARAD ACTIVITIES

- DOT Center For Global Climate Change and Environmental Forecasting
- MARAD Marine Energy and Clean Air Emissions Program
- Marine Transportation System Ferry Initiative

DOT Center for Climate Change
and Environmental Forecasting

Center Mission

- Secretary Slater announces creation of DOT Center 5/99 as the focal point in DOT of technical expertise on transportation and climate change and to create comprehensive and multi-modal approaches to reduce transportation-related greenhouse gases.

Center Goals & Objectives

- To support the capacity of the DOT to address environmental and climate change concerns through...
 - an intermodal and transportation systems approach
 - energy-efficient and sustainable transportation services
 - fostering livable communities and healthy economies

Virtual OneDOT Center

- MARAD
- FHWA
- FAA
- Coast Guard
- OST
- NHTSA
- RSPA
- FTA
- FRA
- BTS
- Volpe Research Center

Dual Focus

- Research & Analysis
 - FY 2000
 - Emissions trading
 - Tax credits for highly efficient vehicles
 - Project-based international emissions trading
 - Alternative fuels
 - Highway – ferry integration
- Policy Assessment & Leadership

*MARAD's Vision for a
Maritime Energy and Clean Emissions
Program*

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Objective

- Accelerate the use of economical, energy efficient low air emission marine power plants in U.S. ports and waters.

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HOW

Technology

- Evaluate technology transfer to marine applications
- Demonstrate and assess technology with a focus on maritime specific limitations such as safety, vessel design, crewing/training, economics
- Establish technology and strategy data base
- Establish better emissions inventory for ships through in-situ vessel operation emissions data
 - Establish monitoring protocol
 - Establish baselines

Marine Transportation System (MTS) Initiative

MTS Initiative History

- MTS National Conference - Nov 98
- National Task Force on MTS - Mar-Sept 99
- MTS Report to Congress - Sept 99

MTS Vision Statement

The U.S. Marine Transportation System will be the world's most technologically advanced, safe, secure, efficient, effective, accessible, globally competitive, dynamic and environmentally responsible system for moving goods and people.

MTS Report -- Action Areas

- **Seven Strategic Areas for Action:**
 - Coordination
 - Funding the Marine Transportation System
 - MTS Competitiveness and Mobility
 - Security
 - Improving Awareness of the MTS
 - Information Management and Infrastructure
 - Safety and Environmental Protection

Federal Agencies and MTS

17 Federal Agencies committed:

Maritime Administration

U.S. Coast Guard

National Oceanic & Atmospheric Admin.

Environmental Protection Agency

St. Lawrence Seaway Development Corp.

Minerals Management Service

Bureau of Transportation Statistics

DOT Office of Intermodalism

Research & Special Programs Admin.

Federal Highway Administration

Army Corps of Engineers

U.S. Customs Service

Agriculture Marketing Service

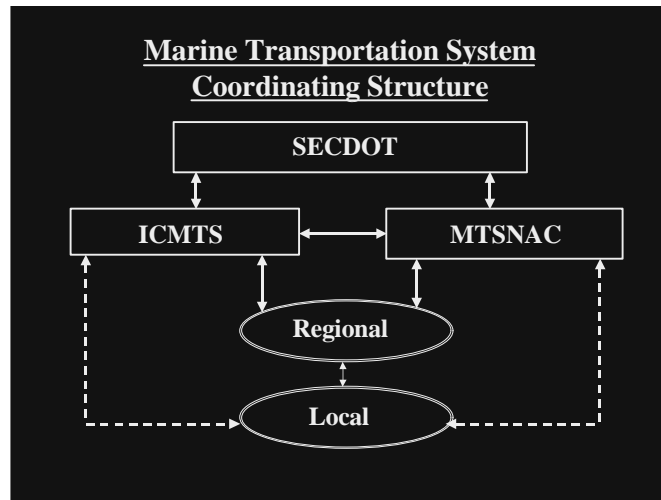
U.S. Transportation Command

Military Sealift Command

Federal Transit Administration

Federal Railroad Administration

MTS Coordinating Structure



National MTS Efforts

- Create a new Interagency Committee on MTS.
- Establish a National Advisory Council reporting to the Secretary of Transportation.
- Encourage the establishment of local and regional stakeholder committees.
- Conduct regional dialog sessions.

MTS National Advisory Council

- **Non-Federal Council established to advise the Secretary of the Department of Transportation**
 - **Members include marine industry, environmental interest, state and local government organizations, transportation professionals**

NAC TEAMS

- **Awareness**
- **Infrastructure**
- **Safety & Environmental Protection**
- **Information Management & Infrastructure**
- **Human Resources**
- **Security**

Interagency Committee for MTS (ICMTS)

- **Federal Counterpart to the NAC established in 1999**
- **Subcommittees:**
 - **Strategic Planning**
 - **Resources**
 - **Safety & Environmental Protection**
 - **Air Emissions & Wake Working Group**
 - **Research & Technology Development**
 - **Security**
 - **Ferries**
 - **Air Emissions & Wake Working Group**

U.S. Marine Transportation System



Ferry Transportation

ICMTS Ferry Subcommittee

- Seven Federal Agencies
 - Maritime Administration
 - U.S. Coast Guard
 - Federal Highway Administration
 - Federal Transit Administration
 - Bureau of Transportation Statistics
 - U.S. Customs Service
 - Army Corps of Engineers
- Interagency focus for federal ferry programs

Seattle Ferry Conference

- June, 2000
- Over 200 Government and Industry participants
- Recommendations:
 - Interagency Ferry Transportation Team establish under MTS Coordinating Committee
 - One-stop shopping web site for ferry transportation issues

Proposed Action Plan

- **Assist in completing TEA-21 Study**
- **Implement TEA-21 findings**
- **Coordinate & Facilitate ferry-related efforts of other federal agencies**
- **Create central ferryboat web site**
- **Identify ferry-related research needs**
- **Liaison with ferry operator/builder industry**
- **National security applications for vessels**

Federal Ship Financing Programs

- **Federal Highway Administration**
 - **TEA-21 Federal-aid Highway Funding for Ferry Boats and Terminals**
- **Federal Transit Administration**
 - **Funding for ferry boats and ferry boat terminals**
- **Maritime Administration**
 - **Title XI program and CCF**
- **Comparison of financing options**
 - **Banking, venture capital, leasing companies, debt placement, & IPO**