

National Transportation Safety Board Marine Safety

#### **Safety Management Systems**



#### **Ship Management**

Management Issues at NYC DOT

Management Issues on vessels

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#### **Safety Management**

 ISM-International Safety Management Code (Chapter 9 of the Safety of Life at Sea Treaty, or SOLAS)

SMS-Safety Management System(s)



Human element

Significant benefits

USCG supports such programs

## Safety Management Systems

A structured, documented system

Identify and resolve safety issues

#### **SMS History**

- March 1987 capsizing of the Herald of Free Enterprise
- 193 Fatalities



#### **SMS History continued**



To provide an international standard for the safe management and operations of ships and for pollution prevention."

#### **ISM Code**

#### Mandatory for Passenger vessels on international voyages on July 1, 1998

 Most other vessels on international voyages July 1, 2002

#### **U.S. Regulations**

U.S. is signatory nation to SOLAS

 USCG final rule in 33 CFR 96, "Rules for the Safe Operation of Vessels and Safety Management Systems"

### **Objectives of SMS**

Safe practices

 Establish safeguards against all identified risks

# Objectives of SMS continued

Continuously improve safety management

 Ensure compliance with mandatory rules and regulations

#### **Ferry Operators**



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#### **B.C. Ferries**

- British Columbia Ferries of Canada
- 35 ships, 47 terminals
- 21 million passengers annually
- Has a Safety
  Management System



## Largest U.S. Ferry operators

Agency	Annual Ridership	Maximum Capacity
WA State Seattle	26 million	2,500
NYC DOT	19 million	6,000
SF Bay Area	4 million	788
LA DOT New Orleans	3.1 million	1,000
MBTA Boston	1.4 million	600

#### **Staten Island Ferries**



- Seven vessels
- 19 million passengers annually
- Barberi Class carried 6000 passengers
- Day and Night runs
- 3 new ferries

#### **Washington State Ferries**



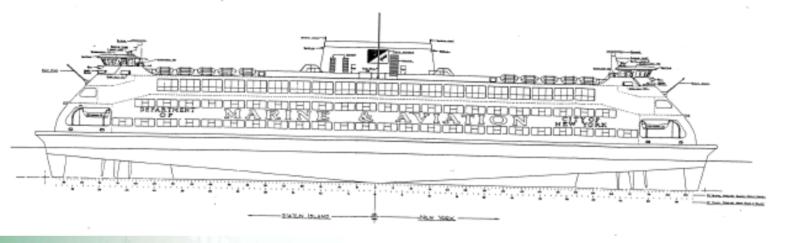
- 26 million passengers annually
  - 29 Vessels
  - 1800 employees, 20 terminals



MV Wenatchee, M/V Tacoma, M/V Puyallup

460 Feet long 2500 Passengers 202 Vehicles





M/V Andrew J. Barberi, M/V Samuel I Newhouse

- 310 Feet Long
- 6000 passengers
- No vehicles

**SMS addresses issues** Management Oversight **Captain's Responsibilities Crew Fitness Bridge Procedures Emergency Preparedness Corrective Action Preventive Maintenance Extensive Audits** 

## Global Maritime and Transportation School (GMATS) recommendations:

- The establishment of an SMS
- Making improvements to the navigation bridge team
- Instituting organizational changes
- The training and professional development of employees

Global Maritime and Transportation School (GMATS) recommendations:

Security modifications

Installing advanced marine technologies



• SMS not currently required for U.S. flag passenger operators on domestic routes

Recommendations



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