



NTSB National Transportation Safety Board

Federal Most Wanted Transportation Safety Improvements

**Safety Management Systems
(SMS) for Domestic Vessels**

Objective

- Improve domestic vessel safety practices and minimize risk by requiring domestic vessel operators to develop, implement and maintain a systematic and documented SMS.



Safety Management Systems

- Provide for safe practices in ship operation and a safe working environment
- Establish safeguards against all identified risks
- Improve the safety management skills of shoreside and shipboard personnel



Key SMS Processes

- Written instructions and procedures for shore side and shipboard personnel
- A system for shore side and shipboard personnel to comply with those instructions and procedures
- Management review of procedures that may include external audits.



Importance

- NTSB has long supported adoption of SMS on board ships, both domestic and foreign, and SMS subsystems such as preventive maintenance programs (PMP).
- NTSB stressed concerns in numerous investigation reports issued since the 1970s.



Safety Improvements Wanted

- Require preventive maintenance program on all domestic passenger vessels for systems affecting safe operation.

M-02-5



Safety Improvements Wanted

- Seek legislative authority, that requires U.S. ferry operators to implement SMS. **M-05-6**



Safety Improvements Wanted

- Finalize the new towing vessel regulations and require the establishment of SMS appropriate for towing vessels. **M-07-6**



Status of SMS Recommendations

Coast Guard Actions:

- **M-02-5: OAA**, Coast Guard will consult with Passenger Vessel Association.
- **M-05-6: OUA**, In 2007, Coast Guard submitted a legislative change proposal to amend 46 USC 3202(a) to require SMS on U.S. ferries w/more than 399 passengers.
- **M-07-6: OAA**, USCG drafting 46 CFR Subchapter M, which is to include SMS regulations. The Coast Guard will consider SMS regulations proposed by the Towing Safety Advisory Committee.



SMS for Domestic Vessels

Proposed NTSB Action:

- Add issue area to Most Wanted List
- Add recommendations: M-02-5, M-05-6, and M-07-6
- Assign yellow designation: Acceptable response, but progressing slowly

Timeliness Designation	Yellow
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Federal Most Wanted Transportation Safety Improvements

**Reduce Marine Accidents
Caused by Human Fatigue**

Marine

- **M-99-1**
- Work-hour limitations date to early 1900s
- International Maritime Organization regulations
- 2004 Coast Guard and Maritime Transportation Act
- Crew Endurance Management System (CEMS)



Marine Fatigue

Proposed Safety Board Action

- Keep issue area on Most Wanted List
- Keep red timeliness designation:
Unacceptable Response

Timeliness Designation

Red





NTSB National Transportation Safety Board

Federal Most Wanted Transportation Safety Improvements

**Improve Oversight of Pilot
Proficiency**

Safety Improvements Wanted

Require all part 121 and 135 air carriers to obtain any notices of disapprovals for flight checks for certificates and ratings for all pilot applicants and evaluate this information before making a hiring decision. **A-05-1**

Status: **Open – Unacceptable Response**



FAA Actions

- **November 2007** – Amended AC-120-68C
“Pilot Records Improvement Act of 1996”
 - Letter of consent could be used to authorize release of records of disapprovals



FAA Actions Remaining

Determine how many operators are obtaining disapproval information for their pilot applicants



Safety Improvements Wanted

Require all part 121 air carrier operators to establish training programs for flight crewmembers who have demonstrated performance deficiencies or experienced failures in the training environment that would require a review of their whole performance history at the company and administer additional oversight and training to ensure that performance deficiencies are addressed and corrected. **A-05-14**

Status: **Open – Acceptable Alternate Response**



FAA Actions

- **October 2006** – SAFO issued “Remedial Training for Part 121 Pilots”
 - Recommended voluntary implementation
- **April 2009** – Notice to FAA inspectors on verification of remedial training programs



FAA Actions Remaining

Provide data to determine industry adoption of programs for remedial training and enhanced oversight of pilots with performance deficiencies.



Proposed Safety Board Action

Improve Oversight of Pilot Proficiency

- Place issue area on Most Wanted List
- Set designation to red: Unacceptable Response

Timeliness Designation

Red

