

**NTSB**

## **MOST WANTED LIST**

**Transportation Safety Improvements 2009-2010**

### **Actions Needed by Federal Agencies**



## **Rail**

*The Federal Transit Administration should:*

### **● Improve Transit Railcar Design**

- Provide adequate means for safe and rapid emergency responder entry and passenger evacuation.
- Prevent the telescoping of transit railcars in collisions.
- Remove equipment that cannot be modified to meet the new standards.

## **Marine**

*The U. S. Coast Guard should:*

### **● Require Safety Management Systems (SMS) for Domestic Vessels**

- Require domestic vessel operators to develop, implement, and maintain a systematic and documented SMS to improve their safety practices and minimize risk.

### **● Reduce Accidents and Incidents Caused by Human Fatigue in the Marine Industry**

- Set working hour limits for mariners based on fatigue research, circadian rhythms, and sleep and rest requirements.

## **Aviation**

*The Federal Aviation Administration should:*

### **● Improve Oversight of Pilot Proficiency**

- Evaluate prior flight check failures for pilot applicants before hiring.
- Provide training and additional oversight that considers full performance histories for flight crewmembers demonstrating performance deficiencies.

### **● Require Image Recorders**

- Install crash-protected image recorders in cockpits to give investigators more information to solve complex accidents.

### **● Improve the Safety of Emergency Medical Services (EMS) Flights**

- Conduct all flights with medical personnel on board in accordance with stricter commuter aircraft regulations.
- Develop and implement flight risk evaluation programs for EMS operators.

- Require formalized dispatch and flight-following procedures including up-to-date weather information.
- Install terrain awareness and warning systems (TAWS) on aircraft used for EMS operations.

### **Improve Runway Safety**

- Give immediate warnings of probable collisions/incursions directly to flight crews in the cockpit.
- Require specific air traffic control (ATC) clearance for each runway crossing.
- Require operators to install cockpit moving map displays or an automatic system that alerts pilots when a takeoff is attempted on a taxiway or a runway other than the one intended.
- Require a landing distance assessment with an adequate safety margin for every landing.

### **Reduce Dangers to Aircraft Flying in Icing Conditions**

- Use current research on freezing rain and large water droplets to revise the way aircraft are designed and approved for flight in icing conditions.
- Apply revised icing requirements to currently certificated aircraft.
- Require that airplanes with pneumatic deice boots activate the boots as soon as the airplane enters icing conditions.

### **Improve Crew Resource Management**

- Require commuter and on-demand air taxi flight crews to receive crew resource management training.

### **Reduce Accidents and Incidents Caused by Human Fatigue in the Aviation Industry**

- Set working hour limits for flight crews, aviation mechanics, and air traffic controllers based on fatigue research, circadian rhythms, and sleep and rest requirements.
- Develop a fatigue awareness and countermeasures training program for controllers and those who schedule them for duty.
- Develop guidance for operators to establish fatigue management systems, including a methodology that will continually assess the effectiveness of these systems.

## **Highway**

***The Federal Motor Carrier Safety Administration should:***

### **Prohibit Cell Phone Use by Motorcoach Drivers**

- Prohibit commercial driver's license (CDL) holders driving under the authority of the passenger-carrying or school bus endorsement from using a cellular telephone.

- **Require Electronic Onboard Data Recorders to Maintain Accurate Carrier Records on Driver Hours of Service**
  - Improve collection and maintenance of data concerning hours of service (HOS) of motor carrier drivers by requiring use of electronic onboard recorders (EOBRs).
- **Improve the Safety of Motor Carrier Operations**
  - Prevent motor carriers from operating if they put vehicles with mechanical problems on the road or unqualified drivers behind the wheels.
- **Prevent Medically Unqualified Drivers from Operating Commercial Vehicles**
  - Establish a comprehensive medical oversight program for interstate commercial drivers.
  - Ensure that examiners are qualified and know what to look for.
  - Track all medical certificate applications.
  - Enhance oversight and enforcement of invalid certificates.
  - Provide mechanisms for reporting medical conditions.

*The National Highway Traffic Safety Administration should:*

- **Prevent Collisions by Using Enhanced Vehicle Safety Technology**
  - Reduce rear-end collisions through use of adaptive cruise control and collision warning system technologies.
- **Enhance Protection for Motorcoach Passengers**
  - Redesign motorcoach window emergency exits so passengers can easily open them.
  - Issue standards for stronger bus roofs and require them in new motorcoaches.
  - Devise new standards to protect motorcoach passengers from being thrown from their seats or ejected when a bus sustains a front, side, or rear impact or rolls over.

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### **NTSB Action/Timeliness Designation for Federal Agencies**

- **Unacceptable response**
- **Acceptable response, progressing slowly**
- **Acceptable response, progressing in a timely manner**

**February 2010**

## NTSB

# MOST WANTED LIST

## Transportation Safety Improvements 2009-2010

### Actions Needed by States



## HIGHWAY

### Improve Child Occupant Protection

- Enact State laws requiring booster seats for young children up to age 8.

### Enact Primary Seat Belt Enforcement Laws

- Increase number of people who wear seat belts through stronger enforcement laws that don't restrict officers to observing another offense first.

### Eliminate Distractions for Young Drivers

- Prohibit use of interactive wireless communications devices by young novice drivers.
- Restrict the number of teen passengers traveling with young novice drivers.
- Enact graduated driver licensing legislation.

### Eliminate Hard Core Drinking Driving

- Enact legislation to reduce crashes involving repeat offenders who drink large amounts of alcohol, including:
  - Frequent, statewide sobriety checkpoints.
  - More effective measures (sanctions/treatment) for first time arrests with high blood alcohol concentration and repeat offenders.
  - Zero blood alcohol requirement for those already convicted of driving while intoxicated.
  - Administrative license revocation for refusing to take or failing an evidential test for alcohol.
  - Vehicle sanctions for DWI offenders to separate drinking from driving.
  - Elimination of plea-bargaining DWI offenses and programs that divert offenders and purge offense records.
  - DWI offense records retention for at least 10 years to identify repeat offenders.
  - Special sanction court-based programs such as DWI courts for hard core DWI offenders.

## MARINE

### Enhance Recreational Boating Safety

- Require mandatory education of boat operators.
- Require use of life jackets by children.

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