

# Perspectives on Flight Time/Duty Time for All-Cargo Operations

Honorable Mark R. Rosekind, Ph.D. Board Member

Air Cargo Safety and Security: Closing the Gaps ALPA Cargo Conference April 16, 2012

### Federal Agencies: Transportation

**NTSB** 

**FMCSA** 

FRA

**NHTSA** 

**PHMSA** 

DOT

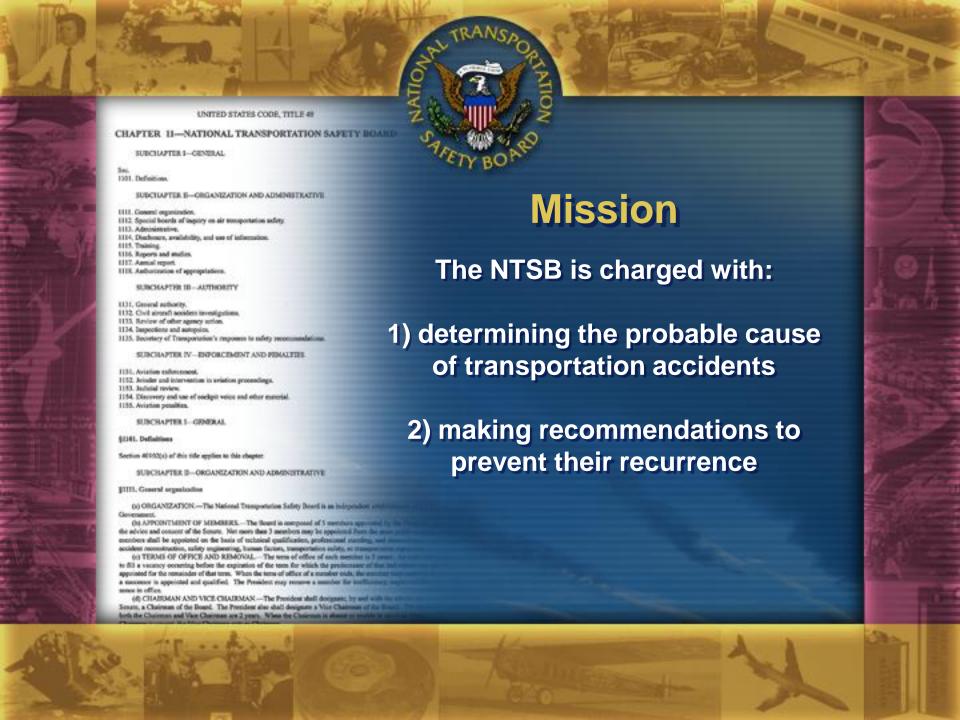
**FHA** 

FTA

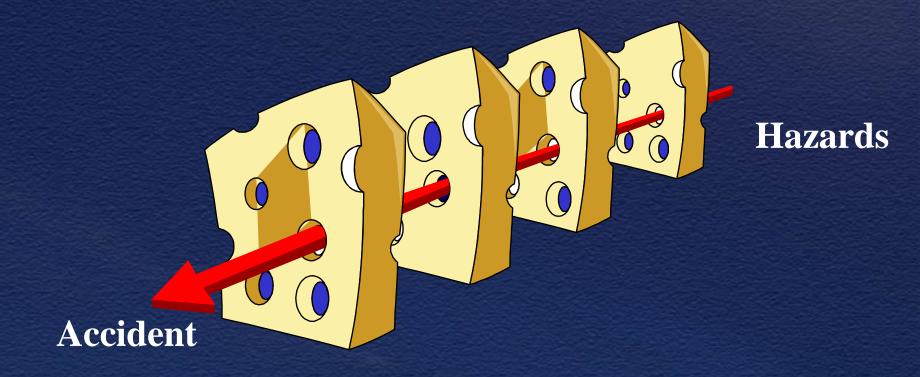
MA

FAA





## "Swiss Cheese" Model (Reason)



Successive layers of defenses, barriers, and safeguards



### **Guantanamo Bay Cuba (August 1993)**

First NTSB major aviation accident to cite fatigue as probable cause



acute sleep loss, sleep debt, circadian disruption



# Uncontrolled In-Flight Collision with Terrain AIA Flight 808, Douglas DC-8-61, N814CK U.S. NAS, Guantanamo Bay, Cuba, August 18, 1993

"The National Transportation Safety Board determines that the probable causes of this accident were the impaired judgment, decision making, and flying abilities of the captain and flight crew due to the effects of fatigue..."



## Lubbock, TX (January 27, 2009)



### Probable Cause/Contributing Factors

"Contributing to the accident were . . .

4) fatigue due to the time of day in which the accident occurred and a cumulative sleep debt, which likely impaired the captain's performance."





#### NATIONAL TRANSPORTATION SAFETY BOARD

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Home > Transportation Safety > Most Wanted List



#### MOST WANTED LIST

A program to increase the public's awareness of, and support for, action to adopt safety steps that can help prevent accidents and save lives. The following are ten of the current issues.



Addressing Human Fatigue



General Aviation Safety



Safety Management Systems



Runway Safety



**Bus Occupant Safety** 



Pilot & Air Traffic Controller Professionalism



Recorders



Teen Driver Safety



Addressing Alcohol-Impaired Driving



**Motorcycle Safety** 

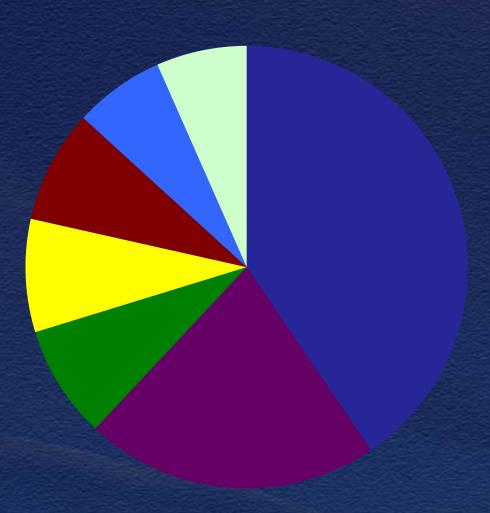
### **NTSB Recommendations**

MOST WANTED since 1990

~200 fatigue recommendations



# Complex Issue: Requires Multiple Solutions



- Scheduling Policies and Practices
- Education
- Organizational Strategies
- Raising Awareness
- Healthy Sleep
- Vehicle and Environmental Strategies
- Research and Evaluation



### Honorable John K. Lauber:

No Accident ≠
Safe Operation



# New FAA HOS Rule: NTSB Chairman Hersman's Comments

- pleased that the FAA issued a long-awaited science-based rule for flight and duty time
- DOT Secretary/former Administrator worked for years to shepherd this contentious rule through the process
- applaud the leadership of DOT and FAA for bringing it across the finish line
- not a perfect rule, it is a huge improvement over the status quo for large passenger-carrying operations



# New FAA HOS Rule: NTSB Chairman Hersman's Comments

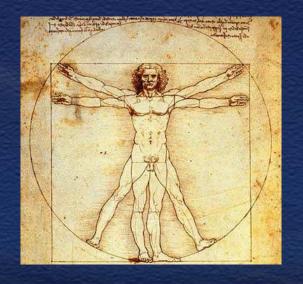
- extremely disappointed that the new rule is limited to Part 121 carriers
- a tired pilot is a tired pilot, whether there are 10 paying customers on board or 100, whether the payload is passengers or pallets
- FAA said "Fatigue threatens aviation safety because it increases the risk of pilot error that could lead to an accident."
- particularly a concern for crews that fly "on the back side of the clock."



## Physiology is the Constant

Same brain, physiology, sleep needs, and circadian factors:

Across all aircraft and operations





## **Changing Safety Culture**

Safety goal . . .







NTSB