

## ABA – BISC January 12, 2021 NTSB Fatigue-Related Crashes and Lessons Learned & Update

Mike Fox Sr. Highway Crash Investigator

# We Thank You!













#### Overview

- Who is the NTSB?
- Determining fatigue as causal
- Highlight crash investigations
- Fatigue management program
- Update on Board Products
  - Schoharie, NY
  - o Randolph, NH



#### Who is the NTSB?

- Independent Federal Agency
- Aviation, Marine, Rail, and Highway
- Headquartered in Washington, DC
- About 400 staff nationwide









# 2019-2020 NTSB MOST WANTED LISTOF TRANSPORTATION SAFETY IMPROVEMENTS

atigue is a pervasive problem in transportation that degrades a person's ability to stay awake, alert, and attentive to the demands of safely controlling a vehicle, vessel, aircraft, or train. We are calling for a comprehensive approach to combatting fatigue in transportation, focusing on research, education, and training; technology; sleep disorder treatment; hours-of-service regulations; and on- and off-duty scheduling policies and practices.



# Reduce Fatigue-Related Accidents

**NTSB** 



#### The Final Product

- Report Development
  - Follow-up trips
  - Testing / research
  - Report writing
- Report Types
  - Brief Report
  - Full Report BoardMeeting







#### NATIONAL TRANSPORTATION SAFETY BOARD

Search...

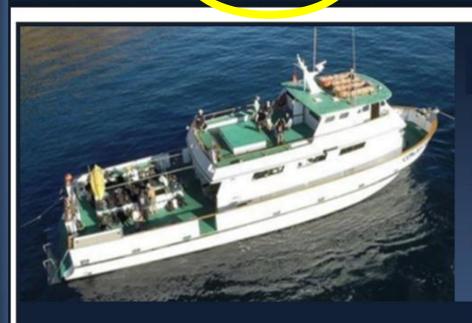
NEWS & EVENT HOME

SAFETY ADVOCACY

**NVESTIGATIONS** 

DISASTER ASSISTANCE LEGAL

**PUBLICATIONS ABOUT** 



#### **NTSB News**

The National Transportation Safety Board is scheduled to conduct a board meeting Oct. 20, 2020, at 1 p.m. (EDT), to consider the agency's investigation of the fatal, Sept. 2, 2019, fire aboard the dive boat Conception off Santa Cruz Island, California.

Read More







# Investigating Fatigue

- Physical evidence
- HOS in compliance?
- 72- hour history
- Available rest periods
- Electronic record



## **Human Factors**

- DOT medical certification
- Medical records
- Medications, toxicology
- BMI > 30
- Obstructive sleep apnea



# Doswell, VA

# May 31, 2011



# Chattanooga, TN June 25, 2015





# Laredo, TX May 14, 2016



# St. Marks Florida July 2, 2016



#### Cranbury, NJ

#### June 7, 2014

- 1:00 am
- Work zone
- 1 fatal, 4 injured
- DE- GA-DE
- Awake 24 hours



#### Pre-Crash

- No restrictions on distance to terminal
- Did not analyze critical events
- Lacked a fatigue management program



#### Post Crash

- New fatigue policy
- Work Commute Plan
- Safety Alerts on Qualcomm
- Defensive driving training
- Implemented an FMP



#### Importance of FMP

- Failure to manage the risk can be deadly
- HOS compliance is not FMP
- People can't work 24/7
- Fatigue poor decision making, slowed response, risky behavior, loss of situational awareness
- CMV drivers are most vulnerable



# North American Fatigue Management Program (NAFMP)

- 4-year project (Canada & US)
- Collaboration between Government, carriers, insurance and researchers
- Fatigue management education for drivers, families, managers, shippers receivers and dispatchers
- Website: www.nafmp.org







Home About NAFMP

Search

Online

We have 129 guests and no members online

Downloads

**Getting Started** 

The following downloads are in English. To download these files in a different language, please select the appropriate website language.

**Online Courses** 

The North American Fatigue Management Program offers its training in a number of formats, allowing users to select the one that best fits their individual needs. For the most comprehensive training experience, including online testing, you are encouraged to use the <a href="NAFMP Online Courses">NAFMP Online Courses</a>. Once there, you can register as a user of the system, free of charge, and work through the training at your own pace. Commercial truck and bus fleets can encourage their drivers and other personnel to register and complete the appropriate courses.

The PowerPoint versions below are formatted in PowerPoint version 2010. A free PowerPoint reader is <u>available here</u> if you do not currently have PowerPoint version 2010. If you experience problems downloading files, please use our <u>alternate download</u> site.

Powerpoint Versions (with audio narration)

**ROI Calculator** 

This version of the NAFMP training allows users to view and hear the training but does not allow for knowledge testing and scoring. This option is best suited for users who simply want to step through the training at their computer without participation in any of the quizzes or other knowledge checks.

- Module 1 (MS Powerpoint)
- Module 2 (MS Powerpoint)
- Module 3 (MS Powerpoint)
- Module 4 (MS Powerpoint)
- Module 5 (MS Powerpoint)
- Module 6 (MS Powerpoint)
- Module 7 (MS Powerpoint)
- Module 8 (MS Powerpoint)
- Module 9 (MS Powerpoint)
- Module 10 (MS Powerpoint)

Print | Email | Hits: 29488

Downloads



Contact Us

Are you human?



Complete Module Overview (Reference Only)

Module	Title	Target Audience	Estimated Duration
1	FMP Introduction and Overview	Motor Carrier Executives and Managers	45 minutes
2	Safety Culture and Management Practices	Motor Carrier Executives and Managers	1.5 hours
3	Driver Education	Commercial Drivers	3 hours
4	Driver Family Education	Driver Spouses and Family	45 minutes
5	Train-the-Trainer for Driver Education and Family Forum	Carrier Safety Managers and other Trainers	3.5 hours
6	Shippers and Receivers	Freight Shippers and Receivers	30 minutes
7	Motor Carrier Sleep Disorders Management	Carrier Executives and Managers	1.5 hours
8	Driver Sleep Disorders Management	Commercial Drivers	1.25 hours
9	Driver Scheduling and Tools	Dispatchers and Driver Managers	1 hour
10	Fatique Monitoring and Management Technologies	Motor Carrier Executives and Managers	1 hour



## Safety Culture



Source: NAFMP



#### Policies and Procedures

- Written SOPs
- Fatigue policy
- Distance to terminal
- Acknowledged

- Driver handbook
  - Adverse driving
  - Sleep apnea
  - Driver wellness



# Training & Education

- Initial & recurrent
- Post-accident
- HOS compliance
- Off duty hours

- Family members
- Shippers
- Documented



#### Evaluation

- Accident register
- Loss runs
- Insurance
- Technology
  - Critical events
  - Analyze the data





## Recent Board Products

Schohaire, NY



Randolph, NH



#### Schoharie, New York October 6, 2018



NYSP



#### Limo at Final Rest



#### Probable Cause

- Prestige's egregious disregard for safety, dispatched an OOS limousine
- NY DOT ineffective oversight of Prestige despite knowledge
- NY DMV inadequate oversight of state inspection stations

# Schohaire, NY Rec's

- To FMCSA- provide guidance to states to enforce compliance with state out of service orders
- NY State DOT to implement rec's from Comptroller Report for repair certification and improve carrier compliance with OOS violations



# Schoharie, NY Rec's cont.

- To NY DMV review policies on the inspection of stretch limousines to ensure that state-controlled inspection stations do not inspect limousines with seating 10 or more
- State inspection stations may not inspect limousines with seating 10 +



# Schoharie, NY Rec's cont.

- To the National Limousine Ass. —
  inform your members to verify the
  safety of altered limousines
  - Pass a structural & mechanical inspection that meets FMVSS
  - Secondary certification label is affixed to the limousine before purchase



# Randolph, NH June 21, 2019



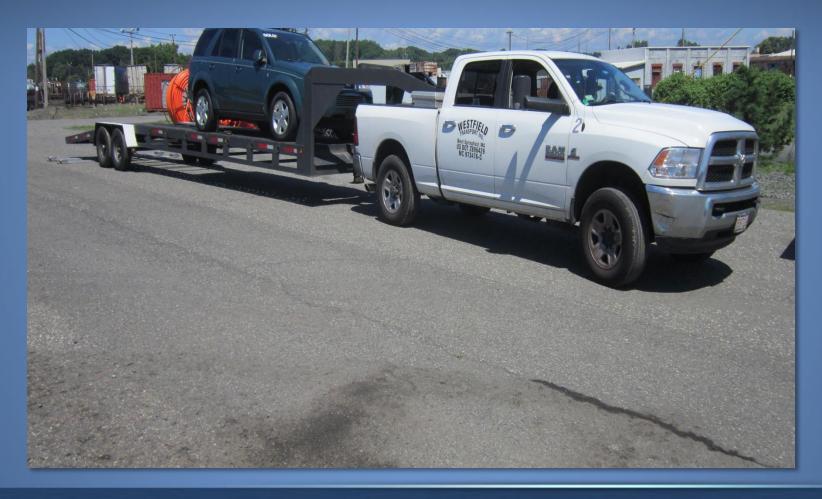


# Randolph, NH

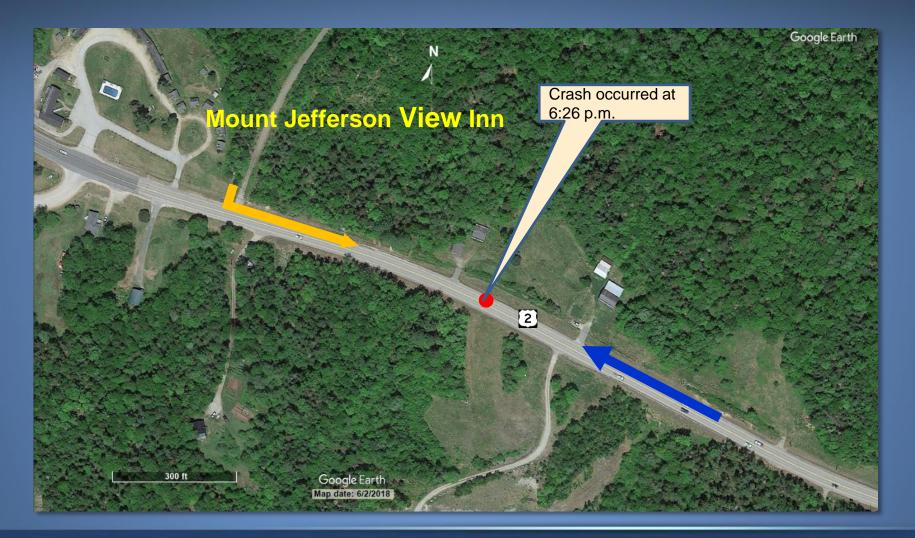




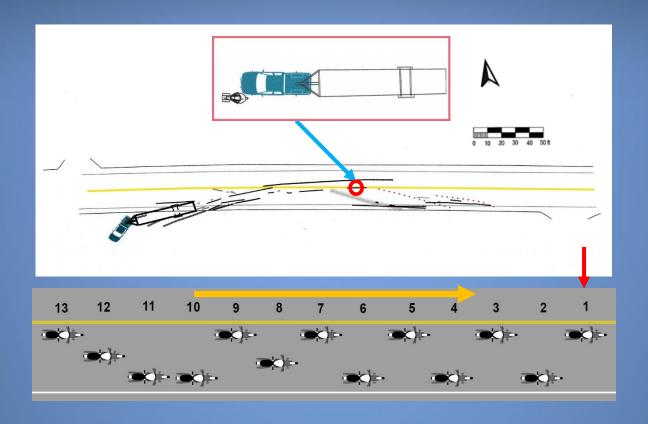
# Motor Carrier = Westfield Transport



## **Crash Location**



# Crash Sequence





# Final Rest





#### **Probable Cause**

- The pickup truck driver's crossing the centerline because of impairment from multiple drugs
- Westfield Transports substantial noncompliance with the regulations
- MA RMV failure to revoke the pickup truck drivers CDL



#### Recommendations to FMCSA

- Establish a layer of oversight for recent graduates of the new entrant program
- Remove KeepTruckin electronic logging device from the approved list
- Review and revise the certification process by which ELDs are approved



# Randolph, NH Rec's

To all states, DC and Puerto Rico:

Direct your licensing agencies to review existing procedures or develop new ones to:

 Process notifications from other states about infractions and suspensions



# Summary

- Fatigue should be on everyone's "Most Wanted List"
- North American Fatigue Management Program
- FMP safety culture, polices / procedures, training & education, and evaluation
- NTSB Reports <u>www.ntsb.gov</u>





# | National | Transportation | Safety Board