LVPC Freight Advisory Committee

December 19, 2016

Bethlehem, PA
Agenda

- FMCSA Overview
- Crash Statistics
  - High Crash Counties
  - Roadside Data Use and CSA
- Regulatory Update
- Use of Technology
  - Electronic Logging Devices
  - Wireless Roadside Inspection Research and Field Test
Our Mission

Placing safety as our highest priority:
Reduce crashes, injuries, and fatalities involving CMV transportation through education, innovation, regulation, enforcement, financial assistance, partnerships, and full accountability.
Federal Motor Carrier Safety Administration

**Who We Are:**

- One of 12 agencies within the U.S. Department of Transportation (USDOT)
- Created within the USDOT, January 2000
- ~$600M annual budget
- 1,200 employees, in all 50 States, DC and U.S. Territories

**Who We Regulate**

- 550,000 Active Interstate Motor Carriers
  - 12,000 Passenger Carriers
  - 11,000 Hazmat Carriers
  - 4,500 Household Goods Carriers
- 7 Million Commercial Motor Vehicle Drivers
- 12 Million Large Trucks and Buses Driving Over 300 Billion Miles
FMCSA Mission
Reduce crashes, injuries and fatalities involving large trucks and commercial buses

4,067 fatalities in crashes involving large trucks in 2015
4.1% more fatalities than in 2014 – highest since 2008

73.5% were occupants of other vehicles
16.4% were occupants of large trucks
10.1% percent were non-occupants
Large Truck and Bus Fatal Crashes, 2004 - 2014

Sources: National Highway Traffic Safety Administration, Fatality Analysis Reporting System (FARS)
Top 10 States for Large Truck and Bus Fatalities

<table>
<thead>
<tr>
<th>1) Texas</th>
<th>6) Illinois</th>
</tr>
</thead>
<tbody>
<tr>
<td>2) California</td>
<td>7) Ohio</td>
</tr>
<tr>
<td>3) Florida</td>
<td>8) New York</td>
</tr>
<tr>
<td>4) Pennsylvania</td>
<td>9) North Carolina</td>
</tr>
<tr>
<td>5) Georgia</td>
<td>10) Indiana</td>
</tr>
</tbody>
</table>
### Active Carriers

<table>
<thead>
<tr>
<th></th>
<th>Pennsylvania</th>
<th></th>
<th>National</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number</td>
<td>Percent</td>
<td>Number</td>
<td>Percent</td>
</tr>
<tr>
<td>Interstate and Intrastate HazMat Carriers</td>
<td>24,884</td>
<td>N/A</td>
<td>538,550</td>
<td>N/A</td>
</tr>
<tr>
<td>Passenger Carriers</td>
<td>653</td>
<td>2.62%</td>
<td>12,838</td>
<td>2.38%</td>
</tr>
<tr>
<td>HazMat Carriers</td>
<td>431</td>
<td>1.73%</td>
<td>9,883</td>
<td>1.83%</td>
</tr>
<tr>
<td>General Carriers</td>
<td>23,800</td>
<td>95.64%</td>
<td>515,829</td>
<td>95.78%</td>
</tr>
</tbody>
</table>
Key Safety Processes

Companies register with FMCSA

Inspect vehicles and drivers and record safety compliance data

Investigators visit companies and record safety compliance data

Enforcement brings legal action against companies not in compliance

USDOT # / Operating Authority

Roadside Weigh Stations

Traffic Enforcement

Company Site Visits / Interventions

Legal Action
<table>
<thead>
<tr>
<th></th>
<th>Penn</th>
<th>National</th>
<th>% of Nat</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of Inspections</strong></td>
<td>112,107</td>
<td>3,415,312</td>
<td>3.28%</td>
</tr>
<tr>
<td><strong>Driver OOS Rate</strong></td>
<td>4.99%</td>
<td>4.91%</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Vehicle OOS Rate</strong></td>
<td>19.80%</td>
<td>20.06%</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Hazmat OOS Rate</strong></td>
<td>1.38%</td>
<td>3.94%</td>
<td>N/A</td>
</tr>
</tbody>
</table>
Crash Clusters

- Philadelphia/Allentown/Harrisburg
  - 2995 crashes 52% of total
  - 56 fatalities 43% of total
- Pittsburgh
  - 749 crashes 13% of total
  - 8 fatalities 6% of total
- Wilkes Barre/Scranton
  - 382 crashes 7% of total
  - 4 fatalities 3% of total
- Erie
  - 110 crashes 2% of total
  - 1 fatality < 1% of total
Commercial Vehicle Safety

Stretching from the shores of Lake Erie to the Delaware River, Pennsylvania serves as the gateway to the population centers of the northeastern United States. According to the Pennsylvania Motor Truck Association (www.pmta.org), 1.2 million tons of freight are moved in Pennsylvania each business day.
Safety Rating & OOS Rates
(As of 12/15/2016 updated daily from SAFER)

Not Rated

Out of Service Rates

<table>
<thead>
<tr>
<th>Type</th>
<th>OOS %</th>
<th>National Avg %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle</td>
<td>45.0</td>
<td>20.3</td>
</tr>
<tr>
<td>Driver</td>
<td>25.6</td>
<td>5.0</td>
</tr>
<tr>
<td>Hazmat</td>
<td>25.6</td>
<td>3.9</td>
</tr>
</tbody>
</table>

Licensing and Insurance
(As of 12/15/2016 updated hourly from L&I)

<table>
<thead>
<tr>
<th>Type</th>
<th>Active For-Hire Authority</th>
<th>MC#/MX#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Property</td>
<td>Yes</td>
<td>MC-956890</td>
</tr>
<tr>
<td>Passenger</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Household Goods</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Broker</td>
<td>No</td>
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BASIC Status (Enforcement View)

Behavior Analysis & Safety Improvement Categories (BASICs)

Select a BASIC icon above to get details, or view your Complete SMS Profile.

Denotes this carrier exceeds the FMCSA intervention threshold relative to its safety event grouping based upon roadside data and/or has been cited with one or more Acute/Critical Violations within the past 12 months during an investigation. Therefore, this carrier may be prioritized for an intervention action and roadside inspection.

Based on a 24-month record ending November 25, 2016
National Crash Costs: Cost Per Crash By CMV Type and Crash Severity (2014 Dollars)

<table>
<thead>
<tr>
<th></th>
<th>ALL CMVs</th>
<th>MOTORCOACHES</th>
<th>TRUCKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>COST PER NON-INJURY CRASH</td>
<td>$73,000</td>
<td>$25,000</td>
<td>$74,000</td>
</tr>
<tr>
<td>COST PER INJURY CRASH</td>
<td>$463,000</td>
<td>$594,000</td>
<td>$462,000</td>
</tr>
<tr>
<td>COST PER FATAL CRASH</td>
<td>$11,259,000</td>
<td>$19,925,000</td>
<td>$11,175,000</td>
</tr>
<tr>
<td>COST PER CRASH</td>
<td>$277,000</td>
<td>$418,000</td>
<td>$276,000</td>
</tr>
</tbody>
</table>

Source: Federal Motor Carrier Safety Administration, Regulatory Evaluation Division
2016 Top Industry Issues

1. ELD Mandate
2. Hours-of-Service
3. Cumulative Economic Impact of Trucking Regulations
4. Truck Parking
5. Economy
6. CSA
7. Driver Shortage
8. Driver Retention
9. Transportation Infrastructure/ Congestion/ Funding
10. Driver Distraction
Drug and Alcohol Clearinghouse – Final Rule

National Registry 2 – Final Rule - 24-hour deadline to report results of driver physicals

Entry Level Driver Training – Final Rule

Beyond Compliance – FAST Act est. program by 2017

VA Physicians on National Registry – allow VA doctors perform medical exams/issue certs

CDL Pilot for Drivers 18-20 -- select military personnel to operate CMV
Roadside Technologies
Query Central Mobile App

- **Purpose:** mobile platform-based tool for FMCSA and state roadside inspectors
- Provides real-time, quick access to motor carrier safety status info
  - Search by USDOT number
  - Out-of-Service Status
  - Licensing and Insurance Status
  - CSA Basics
Paper Hours of Service
Electronic Hours of Service
Diagram of ELD Data Exchanges

- Carrier's Telematics Partner
- Multi Network Communications
- GPS
- J1939 OBDII
- ELD Data Transfer:
  - Wireless Web Services
  - EMail
  - USB 2.0, Bluetooth
  - Printout
  - Display
- FMCSA's e-HOS Web Services environment
- Enforcement Equipment eRODs
Wireless Roadside Inspection Research and Field Testing
Wireless Roadside Inspection (WRI) Program Overview

- Real time safety assessment of commercial motor vehicles traveling at highway speeds
  - Identifier information used to query relevant databases for potential violations
  - Assesses driver hours of service (HOS) information/CDL status
  - Envisioned to augment data available to the Safety Measurement System (SMS)
Benefits to Carriers and Project Status

Benefits
- Compliant carriers receive positive effect on safety score
- Transparency—Real-time WRI results to carriers
- Reduced delays (Fuel savings, Equipment wear, Emissions reductions)
- More data for fleet management of drivers and vehicles
- Potentially lower insurance costs

Status of Research and Field Test
- Launched field test in March 2016
- Three states (MS, NC, TN), 800 drivers, 550 trucks and buses, 37 carriers
- 11,000 WRIs as of September 15, 2016
- Field test conclusion planned for March 2017
- Final report delivered by August 2017
Electronic Screening

Virtual Weigh Station

Virtual Weigh Station Sensor Array

- Over-Height Detector
- License Plate Camera
- Color Camera
- USDOT # Camera
- Weigh In Motion Scale
- Inductive Loops for Vehicle Classification
Electronic Screening
Mobile Enforcement Unit
FMCSA Mission
Reduce crashes, injuries and fatalities involving large trucks and commercial buses

4,067 fatalities in crashes involving large trucks
4.1% more fatalities than in 2014 highest since 2008
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U.S. Department of Transportation
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