Commercial Motor Vehicle Roadside Technology Corridor Showcase

Overview Presentation

April 4, 2008

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Welcome to the Commercial Motor Vehicle Roadside Technology Showcase

Sponsored by:

Federal Motor Carrier Safety Administration, Tennessee Department of Safety, Tennessee Department of Transportation, Oak Ridge National Laboratory, and the University of Tennessee

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Technologies Demonstrated—Current Applications

- Query Central
- Inspection Selection System
- Driver Information Resource
- Performance Registration Information Systems Management
- CVISN Electronic Screening via Pre-Pass™ System
- Performance-Based Brake Tester
- Commercial Vehicle Inspection System (ComVIS)

Query Central Carrier Summary - Windows Internet Explorer provided by ORNL
G:\Current Systems\QC_CarrierSummary.htm
Query Central Carrier Summary
Page Tools

CARRIER SUMMARY

Motor Carrier Identification & Safety Data			
Legal Name:	CMV TECHNOLOGY DEMO INC	USDOT#:	999999
DBA Name:		MC/MX#:	222222
Physical Address:	I-81 SOUTHBOUND BULLS GAP, TN 37711	Phone#:	(423)555-5555
Country of Domicile:	UNITED STATES	Fax#:	(423)555-5555
Mailing Address:	PO BOX 999999 BULLS GAP, TN 37711	Status:	ACTIVE

Inspection Value: 99 - INSPECT

Inspection Value is based on SAFESTAT data.

ALERT: This carrier is in the Motor Carrier Safety Improvement Process.
An inspection is requested.

Visit the SAFER Website for additional information.
Click here for UCR information regarding this carrier.

My Computer 100%
start Query Central Carrier... 11:28 AM

Query Central Carrier Violation History - Windows Internet Explorer provided by ORNL
G:\Current Systems\QC_CarrierViolationHistory.htm
Query Central Carrier Violation History
Page Tools

CARRIER VIOLATION HISTORY

CMV TECHNOLOGY DEMO INC **Inspection Value: 99 - INSPECT**

	This Carrier	Warning Thresholds			This Carrier	Warning Thresholds
Brakes:	0.151	0.443		**Drugs or Alcohol:**	0.006	0.006
Wheels or Tires:	0.081	0.216		**Traffic Laws:**	0.201	0.094
Steering or Frame:	0.020	0.107		**HM Shipping Papers:**	0.000	0.154
Medical Certificates:	0.018	0.098		**HM Placarding:**	0.380	0.136
Driver's Log Book:	0.265	0.249		**HM Operations:**	0.042	0.061
Driver's Hours:	0.298	0.036		**HM Cargo Tanks:**	0.000	0.024
Driver's Qualifications:	0.010	0.005		**HM Other:**	0.056	0.083

My Computer 100%
start Query Central Carrier... 11:30 AM

Driver Information Resource - Windows Internet Explorer provided by ORNL

http://152.122.44.126/TEST/DIRDEMO/DriverHome.asp

Driver Information Resource

▸A&I Home ▸What's New! ▸Contacts ▸Site Guide ▸A&I Data ▸Feedback

A&I User Login

SafeStat | Crash Statistics | Program Measures | NAFTA Safety Stats | Passenger Carrier Safety | Data Quality | FMCSA Tools | Analysis Results

About DIR

How Do I Correct My Data? (DataQs)

Introduction and User Lessons

Disclaimer

Search by Driver:

Last Name † AMZTEY

Narrow Search By:

First Name † B*

Enter Driver License # †

For Last Name or Driver License #,
Narrow Search By:

Driver License State: Select a State

Search by Driver

Or Search by Carrier:

U.S. DOT #

Carrier Name †

Narrow Search By:

State: Select a State

Search by Carrier

Generate Report:

Report Type: Select a Report

Driver License State: Select a State

Generate

Clear Search Criteria

† Tip: Use * (an asterisk) for a wildcard search.

Tips on Searching

Driver Information Resource

Updated Results: June 22, 2007

The Driver Information Resource (DIR) provides a web based lookup capability that allows FMCSA and State enforcement personnel to search, via a secure password, a driver's crash and inspection history by driver name or commercial driver license number. A driver's crash and/or violation data will be displayed if the driver had an inspection within 3 years or a crash within 5 years. All crash and inspection events that meet these criteria will be included and associated with both the driver and motor carrier for whom they were operating. The system will also allow users to search by U.S. DOT number or carrier name to obtain a list of all drivers affiliated with the specified carrier that had an inspection within 3 years or a crash within 5 years.

The information provided in Driver Information Resource is based on the Motor Carrier Management Information System (MCMIS) inspection, crash and census data and is updated **monthly**. Potential future enhancements include the addition of other FMCSA and State data sources.

Please provide comments or suggestions on Driver Information Resource by selecting Feedback from the main menu.

Introduction and User Lessons

This presentation provides an introduction to Driver Information Resource (DIR) with information on the data sources, accessing DIR, and using DIR to search by Driver or Carrier to view Driver safety performance and compliance history.

PPT Download

TXT Download

Data Source: Driver Information Resource results are based on the June 22, 2007 MCMIS data snapshot.

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http://152.122.44.126/TEST/DIRDEMO/DriverInspCrash.asp?lastn=AMZTEY&firstn=BRAIN, BRIAN, KEITH& - Windows Internet Explorer pro
3/TEST/DIRDEMO/DriverInspCrash.asp?lastn=AMZTEY&firstn=BRAIN, BRIAN, KEITH&license=123456789A&licst=FL
http://152.122.44.126/TEST/DIRDEMO/DriverInspCr...

Print Ready Version

Federal Motor Carrier Safety Administration

Analysis & Information Online

FMCSA Federal Motor Carrier Safety Administration

Updated Results: June 22, 2007

This report outlines the driver's history across all motor carriers.

Driver Information

Last Name:	AMZTEY	First Name:	BRAIN, BRIAN, KEITH
License #:	123456789A	License State:	FL

Crash Activity (within 5 years)

Crash Summary

# of Crashes:	2	# of Crashes with Fatalities:	0	# of Crashes with Injuries:	2	# of Towaways:	2
		# of Fatalities:	0	# of Injuries:	4	# of HM Releases:	0

Crash Details

NEW Click on a report # for a Detailed Crash Report

	Carrier Info			Driver Info				Crash Info						Vehicle Info	
	Date	DOT #	Name	Name	License #	License State	DOB	Report State	Report #	Location	# of Fatalities	# of Injuries	HM Release?	License #	License State
1	3/23/2006	1272823	DANTOR'S INC	AMZTEY,BRIAN	123456789A	FL	02/15/1979	VA	VA0000088523	I77 300F W I81	0	2	No	IC33G9	GA
2	6/19/2004	1130554	P & B LOGISTICS	AMZTEY,BRIAN	123456789A	FL	02/15/1979	CT	CTI04-030452	I-91 N/B .1MILE SOUTH OF X6	0	2	No	A6993M	FL

Inspection Activity (within 3 years)

Inspection Summary

Driver Summary		Vehicle Summary		HM Summary	
Driver Inspection:	10	VH Inspection:	7	HM Inspection:	0
Driver OOS Insp:	6	VH OOS Insp:	3	HM OOS Insp:	0
Driver OOS Rate:	60%	VH OOS Rate:	42%	HM OOS Rate:	0%

Inspection Details

NEW Click on a report # for a Detailed Inspection Report

	Carrier Info			Driver Info				Inspection Info					
	Date	DOT #	Name	Name	License #	License State	DOB	Report State	Report #	Insp Level	HM Insp?	Post Crash Insp?	# of Viol
1	5/9/2007	1120995	OAKES FARMS	AMZTEY,BRIAN	123456789A	FL	02/15/1979	NC	0005038447	2	No	No	2
	Driver Violation:	392.2S	Speeding	NON-OOS									
	Vehicle Violation:	396.17(C)	Operating a CMV without periodic inspection	NON-OOS									
2	2/28/2007	1120995	OAKES FARMS	AMZTEY,BRIAN	123456789A	FL	02/15/1979	GA	MCN5004100	1	No	No	7
	Driver Violation:	395.8	Log violation (general/form and manner)	NON-OOS									
		395.3(A)(2)	14 hour rule violation (Property)	NON-OOS									
		395.8	Log violation (general/form and manner)	NON-OOS									

Done
Internet
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http://152.122.44.12...
11:36 AM

Technologies Demonstrated—Current Applications

CMV Inspection System (ComVIS) & Inspection Pit

- Handheld computer
- Rugged to military specifications
- Enables faster inspections
  - Preloads carrier data into inspection software
  - Inspectors can enter data while in the pit
  - Transmits data wirelessly across parking lot to weigh station printer
- Applied research
  - Developed under FMCSA's Small Business Research Program
  - IEM Corp of Albany, NY

Technologies Demonstrated—Current Applications

- Performance-Based Brake Tester
  - Measures Actual CMV Brake Force
  - Safe, Accurate, & Efficient
    - Inspector not under CMV
    - Accuracy to +/- 3 %
    - 10 minutes to conduct inspection with print out

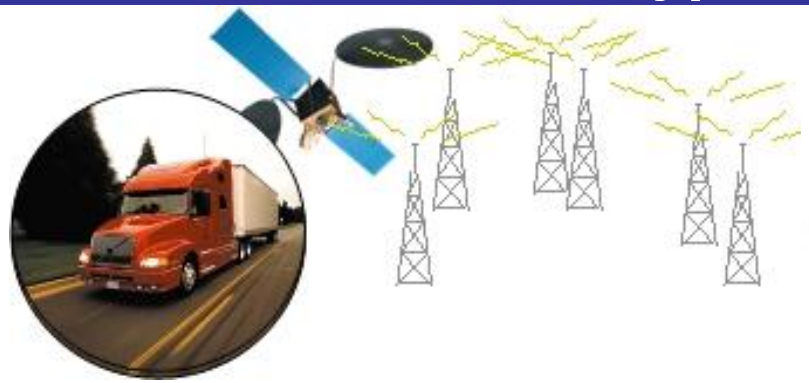
Technologies Demonstrated—Current Applications

- Performance-Based Brake Tester Cont'd
  - Proven Brake Measurement Technology
  - Already in FMCSRs
  - CVSA OOS Enforcement Criteria -- April 2008 (projected)
  - Tool for brake lifecycle research

Technologies Demonstrated—Prototypes

Wireless Roadside Inspections

- Driver Data
  - Driver identification, CDL status, and log info
- Vehicle Data
- Fixed & Mobile Units

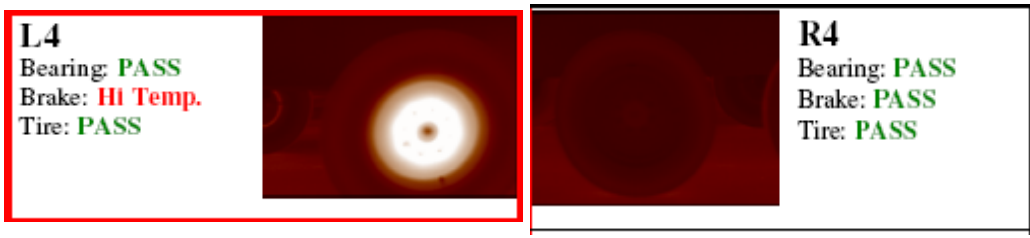


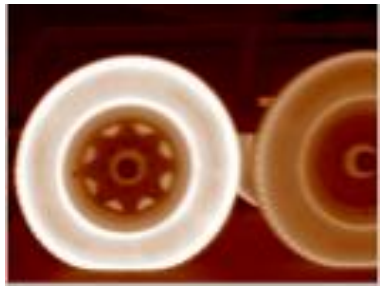
Technologies Demonstrated—Prototypes

- ► Smart Infrared Inspection System
- ► Grant for a demonstration of thermal imaging technologies
  - Identify, in real time, faults and failures in tires, brakes and bearings mounted on commercial motor vehicles
  - Employ system along the interstate
  - Develop statistical tools that can predict impending tire, brake, or bearing failures

Technologies Demonstrated—Prototypes

- Smart Infrared Inspection System
- Details
  - $1.4 M Research Grant
  - Two-year Project
  - Grant competitively awarded September, 2006 to IEM, Inc. of Albany NY





Commercial Motor Vehicle Roadside Technology Corridor

A series of fixed and mobile state-of-the-art facilities for testing and evaluating CMV enforcement technologies in a real-world setting

"The goal of this long-term collaborative effort among FMCSA, TDOS, TDOT, ORNL and UT is to develop and promote advanced truck and bus safety inspection and enforcement technologies to save lives."

Benefits

- Provide Quantitative Assessments of Technology Benefits and Costs
- Support Technology Deployment Decisions
- Expedite Technology Testing Process
- Flexibility to Address Multiple Technology Types
- Test-bed for Truck and Bus Vehicle Infrastructure Integration (VII) safety applications

Technology Corridor Benefits

- National Showcase for CMV Enforcement Technologies
- Builds on TDOS' recent *2006 Motor Carrier Safety Leadership Award*
- Venue to test and prove technologies in an actual roadside environment
- Ready location for future field operational tests & implementation