



# Commercial Vehicle Safety Alliance



## North American Standard Level VI Inspection Program Update: Ensuring Safe Transportation of Radioactive Material

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**SECURITE**  
**SEGURIDAD**

**SAFETY** *Is What We Do Everyday*

# Level VI Training

- 9 basic classes/year held in various states
- Prerequisites: CVSA Level I and HAZMAT certified
- Industry attends course
- To date 125 classes/2126 attendees
- Currently 769 certified Level VI inspectors in 42 states, Canada, and federal



# Level VI Training

- National instructors are volunteer and certified  
Level VI inspectors
- Annual review of training curriculum
- Inspector maintains certification with 8 hours of refresher training every 2 years
- Train the trainer: state representatives trained to conduct their own refresher courses to meet certification requirements




# Training Schedule

- Current Level VI Training Schedule
  - Salina, Kansas – July 11-14, 2011
  - Las Vegas, Nevada – August 22-25, 2011
  - Sacramento, California - October 17-20, 2011
  - Austin, TX – November 7-10, 2011
  - Phoenix, AZ – February 15-16, 2012 (Level VI “Train the Trainer” Course)



# Level VI Inspection Results

- Reports on Level VI inspection results are published regularly. All reports are available on the CVSA website:
  1. Go to CVSA homepage, [www.cvsa.org](http://www.cvsa.org)
  2. Select “Programs” at top of page
  3. Select “North American Standard Level VI Inspection Program” link 
  4. Select “CVSA/WIPP Updates & Reports” link





# Level VI Inspection Results



CVSA Level VI Inspection Data for WIPP Shipments (January 1, 2009 – December 31, 2009)				
Inspection Activity	Number	Percent	Level I OOS Percent	Level VI OOS Percent
Number of Inspections	2,166			
With no Violations	2,066	95.38%		
With Violations	100	4.62%		
Driver OOS* Rate	0	0.00%	0.00%	0.00%
Vehicle OOS Rate	19	0.88%	0.65%	0.23%

CVSA Level VI Inspection Data for Non-WIPP Shipments (January 1, 2009 – December 31, 2009)				
Inspection Activity	Number	Percent	Level I OOS Percent	Level VI OOS Percent
Number of Inspections	227			
With no Violations	202	88.99%		
With Violations	25	11.01%		
Driver OOS Rate	0	0.00%	0.00%	0.00%
Vehicle OOS Rate	2	0.88%	0.88%	0.00%

FMCSA Roadside Inspection Data for the Year 2009*			FMCSA HAZMAT Inspection Data for the Year 2009*		
Inspection Activity	Number	Percent	Inspection Activity	Number	Percent
Number of Inspections	3,558,909		Number of Inspections	223,012	
With no Violations	1,198,692	33.68%	With no Violations	N/A***	N/A
With Violations	2,360,217	66.32%	With Violations	N/A	N/A
Driver OOS** Rate	192,006 †	5.55%	OOS Rate	10,212	4.58%
Vehicle OOS Rate	502,867 †	21.24%			

† The number of inspections is a combination of some Driver, some Vehicle and some combination of both. The OOS Rates are for only those types of inspections.

\*Data Source: FMCSA Motor Carrier Management Information System (MCMIS) August 27, 2010 data snapshot  
<http://ai.fmcsa.dot.gov/SafetyProgram/RoadsideInspections.aspx>

\*\*OOS = Out-of-Service

\*\*\*N/A = Data not available



# Level VI Program Peer Reviews

- Purpose is to identify and share best practices
- Peer Review Activities
  - Teams selected from CVSA Level VI Program Committee, Council of State Governments Northeast and Midwest, SSEB, WGA, DOE, and WIPP carriers
  - 7 states visited: South Carolina, Tennessee, Illinois, Colorado, New Mexico, Washington, Michigan
  - Report published in January 2007 (available on CVSA website)
  - Two additional visits scheduled
    - June 21-23, 2011 at New Mexico
    - August 16-18, 2011 at Idaho

# Level VI Program Outreach

- Goals
  - Educate public on successful Level VI Program
  - Provide information on shipments of transuranic waste and HRCQ
- Tools
  - Display unit
  - Publications
  - Presentations
- Since 2005 over 44 events (conferences, workshops, meetings) attended







# Public Outreach Program Schedule

- DOE National Transportation Stakeholders Forum  
May 11, 2011 – Denver, Colorado
- Contractors Transportation Management Association (CTMA)  
June 6-10, 2011 – Destin, Florida
- National Association of County Officials (NACO)  
July 16-20, 2011 – Reno, Nevada



# ANSI N14.36 Standard Development

- CVSA staff among 33 experts from industry, NGOs, federal and state agencies participating on the four year project
- Standard for methods of radiation and contamination measurement in packaging and transportation of radioactive material
  - All transportation modes
  - All phases of transportation activities
  - Use of risk–informed graded approach in survey plan design
- Draft standard submitted for vote February 2011



# Safety and Security Technologies Study

- CVSA Ad Hoc RAM/Security/ITS Committee examined current and emerging technologies for safety and security of radioactive material shipments
  - Site visits
  - Product reviews
  - HMCRRP HM-04 report on emerging technologies
- 4 current and 9 emerging technology categories were evaluated in the 5 relevant application areas of
  - Inspection
  - Security
  - Electronic Shipping Papers
  - Shipping & Tracking
  - Dose Measurement & Isotope Quantification



# Safety and Security Technologies Study

- Recommendations
  - RFID, GPS, biometrics, seals and locks are currently available, tested, and have good performance records
  - For the future DOE should choose most reliable, promising technologies and in the process
    - Address the 5 application areas, in particular shipment security and tracking of trailers and casks
    - Involve the 4 regional state government groups
    - Involve stakeholders from states which require en route inspections to potentially reduce these inspections due to new technologies used and accessibility by stakeholders
    - Upgrade TRANSCOM to report dose rates in real time
    - Follow progress of HMCRP Project HM-05 study on electronic shipping papers



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## QUESTIONS?

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