Panel 3 Continued...

Presentations: 9:10 a.m. - 10:10 a.m.
- Chief Steven Pearson (ret.) - North Park, Illinois Fire Department
- Greg Noll - National Fire Protection Association (NFPA)
- Chief Richard Edinger - International Association of Fire Chiefs (IAFC)
- Danny Simpson - Canadian National Railway
- Frank Reiner - TRANSCAER®
- Captain Claudia Gelzer - United States Coast Guard

Morning Break: 10:10 a.m. - 10:30 a.m.

Technical Panel Questions: 10:30 a.m. - 10:50 a.m.

Board Member Questions: 10:50 a.m. - 11:30 a.m.

Lunch Break: 11:30 a.m. - 1:00 p.m.

4. Federal Oversight and Industry Initiatives Related to Crude Oil and Ethanol

Technical Panel:
Matt Nicholson; Paul Stancil; Muhamed El-Zoghbi; Manuel Kotchounian, PE

This panel will hear from regulators, the tank car industry, and crude oil and ethanol shippers about initiatives and rulemaking that address areas related to tank car design, risk reduction through rail operations and emergency response. The Federal Railroad Administration (FRA) and the Pipeline and Hazardous Materials Safety Administration (PHMSA) will provide an overview of past rulemaking and work currently underway, including the status of the 2011 petition on tank car design as well as an update on the status of NTSB recommendations. Transport Canada will discuss Canadian regulatory measures related to the emergency response to hazardous materials releases and recently proposed regulations north of the border. The Association of American Railroads will provide an overview of its position on tank car design for the transportation of crude oil and ethanol and discuss the recently announced safety initiative with the Department of Transportation. Lastly, the Renewable Fuels Association and American Petroleum Institute will offer a tank car owner’s perspective on recent and proposed rulemakings. Both groups will present work being performed by their organizations related to crude oil and ethanol transportation by rail.

Presentations: 1:00 p.m. - 1:40 p.m.
- Karl Alexy - Federal Railroad Administration (FRA)
- Magdy El-Sibaie, Ph.D. - Pipeline and Hazardous Materials Safety Administration (PHMSA)
- Stéphane Garneau - Transport Canada, Dangerous Goods
- Ed Hamberger - Association of American Railroads (AAR)

Afternoon Break: 1:40 p.m. - 2:10 p.m.

Presentations: 2:10 p.m. - 2:30 p.m.
- Bob Dinneen - Renewable Fuels Association (RFA)
- Bob Greco - American Petroleum Institute (API)

Technical Panel Questions: 2:30 p.m. - 3:10 p.m.

Board Member Questions: 3:10 p.m. - 3:50 p.m.
Chairman’s Opening Statement: 9:00 a.m. - 9:15 a.m.

Opening Presentation: 9:15 a.m. - 9:30 a.m.
“Rail Accidents Involving Crude Oil and Ethanol Releases”

Technical Panel:
Carl Schultheisz, Ph.D.; Paul Stancil; Matt Fox, Ph.D.; Erik Mueller, Ph.D., PE

This panel will review tank car nomenclature and safety features. Panel participants include representatives from industry groups and tank car manufacturers, along with government and academic researchers. The panel will discuss the history of design and construction standards for tank cars, and the roles of industry groups and regulators in developing and requiring compliance with those standards. Manufacturers will explain how they show compliance with design and construction requirements. Population statistics for the current tank car fleet and accident statistics for the fleet will be assessed. The panel will describe current efforts to develop tank cars with improved crashworthiness, including advanced testing, innovative designs, and new materials, and will discuss the role of simulation and modeling. The limitations on crashworthiness performance standards will be evaluated and alternative methods for improving the rail transportation of crude oil and ethanol will be explored. Current industry proposals for new tank car designs will be discussed, along with the possibility of retrofitting existing tank cars to meet new requirements. The relative costs for current designs, new designs, and the retrofitting of tank cars will be compared. Manufacturers will talk about the current demand for new tank cars, what types of tank cars are being built, and the rate at which new or retrofitting tank cars can be introduced.

Presentations: 9:30 a.m. - 10:10 a.m.
Robert Fronczak - Association of American Railroads (AAR)
William Finn - Railway Supply Institute (RSI)
Todd Treichel - RSI/AAR Railroad Tank Car Safety Research and Test Project
Gregory Saxton - The Greenbrier Companies

Morning Break: 10:10 a.m. - 10:35 a.m.

Presentations: 10:35 a.m. - 10:55 a.m.
Francisco González, III - Federal Railroad Administration (FRA)
David Jeong, Ph.D. - DOT Volpe National Transportation Systems Center

Technical Panel Questions: 10:55 a.m. - 11:30 a.m.
Lunch Break: 11:30 a.m. - 1:00 p.m.

Panel 1 Continued...
Board Member Questions: 1:00 p.m. - 1:50 p.m.

Rail Operations and Approaches to Risk Management

Technical Panel:
John Vorderbrueggen, PE; Ted Turpin; Muhamed El-Zoghbi; Dave Watson

This panel will examine railroad operations, procedures, training, and safety systems that may reduce the severity and consequences of flammable liquid tank car failures. This panel will hear from the regulators, industry representatives, railroad operators, and researchers about safety systems that may reduce the risks and consequences of train derailments. The panel will explore topics such as braking, speed restrictions, rail inspections, and route planning. Industry representatives, the railroad operators, and researchers will discuss the feasibility of implementing new technologies as additional safety measures. The panel will discuss standards related to hazardous materials transportation by rail and its applicability to flammable liquid key or unit trains.
Presentations will update the Board on the status of relevant NTSB recommendations.

Presentations: 1:50 p.m. - 2:30 p.m.
Rich Connor - Federal Railroad Administration (FRA)
Skip Elliott - CSX Transportation
Lee Johnson - American Petroleum Institute (API)
Bob Grimala - Union Pacific Railroad

Afternoon Break: 2:30 p.m. - 3:00 p.m.

Presentations: 3:00 p.m. - 3:20 p.m.
Christopher Barkan, Ph.D. - University of Illinois

Technical Panel Questions: 3:20 p.m. - 3:50 p.m.
Board Member Questions: 3:50 p.m. - 4:30 p.m.

Emergency Response to Tank Car Releases of Crude Oil and Ethanol

Technical Panel:
Steve Blackstone; Paul Stancil; Muhamed El-Zoghbi; Rich Downs, PE

This panel will identify the unique problems that first responders and railroads experience when responding to derailments involving crude oil and ethanol. Emergency response leaders will discuss the challenges presented to both large and small jurisdictions when large volumes of flammable materials contained in unit trains and blocks of tank cars are involved in releases and fires. They will identify lessons learned, best practices, and tactics for preparing and responding to these events. The panel will discuss to what extent emergency responders and their organizations prepare for tank car releases and the training and equipment resources available for mitigating a large release. Panelists will speak to standards related to hazardous materials incidents and their adequacy in providing guidance for accidents involving a flammable liquid release from tank cars. In addition, this panel will examine spill response capability and planning requirements in other modes of transportation and provide an update on initiatives related to recent NTSB recommendations.