



OFFICE OF RESEARCH & DEVELOPMENT

2012 **R&D**
REVIEW

Rolling Stock Division Overview



U.S. Department
of Transportation

Federal Railroad
Administration

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Office of Railroad Policy and Development

Program Area & Risk Matrix

Rolling Stock Division Overview

Program Areas	Risk Factors	Trespass	Grade Crossing	Derailment	Train Collision	All Other Safety Hazards
Railroad Systems Issues						
Human Factors						
Track & Structures						
Track & Train Interaction						
Facilities & Equipment						
Rolling Stock & Components		X	X	X	X	X
Hazardous Materials				X	X	X
Train Occupant Protection			X	X	X	X
Train Control & Communications						
Grade Crossings & Trespass						

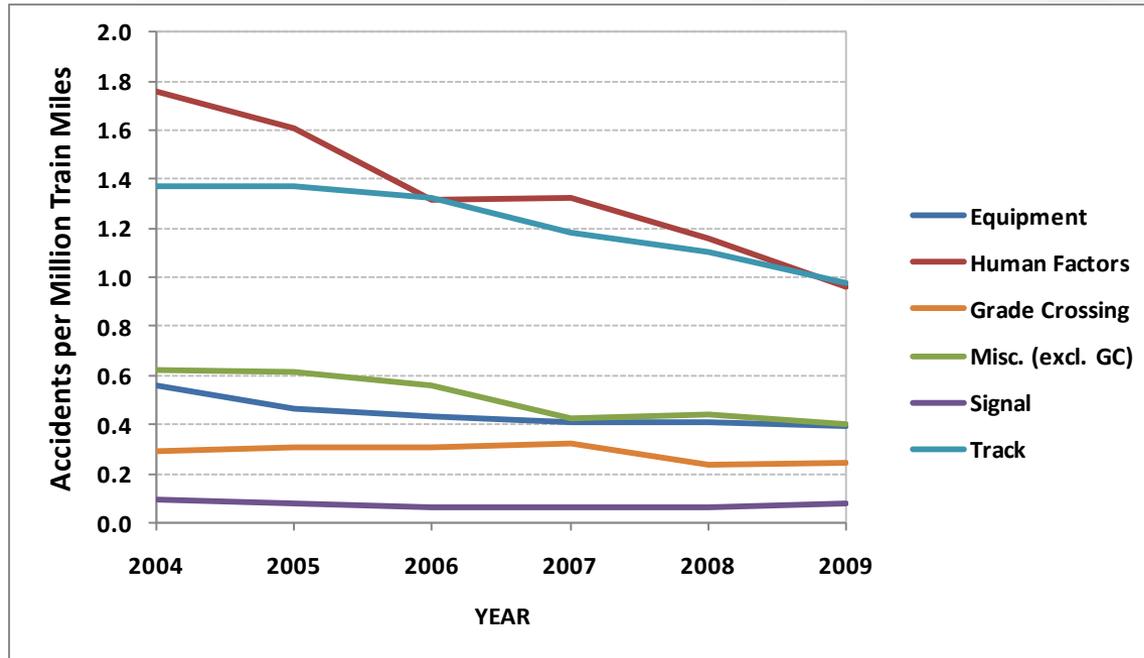
Objectives

- Who we are
- What we do
- How to engage

Rolling Stock Program Areas

Program Areas	Program Manager
Hazardous Materials	Francisco Gonzalez
Passenger Rolling Stock	Jeff Gordon
Locomotives	John Punwani
Rolling Stock and Components (Freight)	Monique Stewart
Energy/ Environment & ADA/ Passenger Safety	Melissa Shurland

Safety Trends



- Good now, can always improve
- Don't slip back as new traffic/service/technologies come onboard

Overall Approach to Reduced Risk/ Improved Performance

- Maximum real world impact- at the earliest possible time
- Focus on key problems and opportunities
- Push for early decisions- In or Out
- Early stakeholder engagement
 - Technology providers and end users
- Collaborate- Don't reinvent
- Support for:
 - Demos and implementation and program evaluation
- Outreach: Problems, Opportunities and Solutions

Rolling Stock R&D Highlights

- Future of Passenger Rolling Stock
 - Engineering Task Force (ETF)
 - Safety of New Passenger Rolling Stock
 - Next Generation Equipment Committee (NGEC)
 - Design
 - Performance
 - Maintainability
 - Standardization
- ADA- Evolving technologies and needs
- Wayside Inspection
- Wheel/Casting R&D
- Tank Car Safety
 - Next Generation
 - Improved Inspection
- Biodiesel / Engine Efficiency/ Tier 4 Emissions
- Workforce Development

Thank you!

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