

Union Pacific Railroad & BNSF Railways

HAZARDOUS MATERIALS MANAGEMENT



Who are the Railroads?

- **Class I railroads –**
 - Account for 69 percent of the industry’s mileage
 - 90 percent of its employees
 - 94 percent of its freight revenue
 - Operate in 44 states
- **Short line and regional railroads**
 - Account for 31 percent of U.S. freight rail mileage
 - 10 percent of employees
 - Range in size from small operators handling a few carloads a month to multi-state operators.
 - More than 560 short line and regional railroads operate in every U.S. state
- **Switching and terminal railroads**
 - Usually perform pick-up and delivery services within a port or industrial area, or move traffic between other railroads.



Hazmat Transportation

- US Class 1 railroads originated 2.2 million carloads of chemicals
- 7.5% of rail volume (industry average)
- 175 million tons
- 99.9977% reach destination without a release
- Rail hazmat accident rates are down 91% since 1980 and 38% since 2000

*Source – AAR 2013 statistics



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Hazmat in our Society

Chlorine



- To purify our water
- To make PVC, into a diverse range of products

Butadiene and Styrene



- Tires
- Shoes

Propane



- Barbecues
- Heating

Propylene



- Eyeglasses
- Water cooler bottles

Sodium Hydroxide



- In paper production
- In soaps
- In paint

Prevention

- Inspections
 - Tank car
 - Train
 - Crew audits/Employee Contact
- Training
 - Employees
 - Customers
- Continuous Improvement
 - Industry committees
 - Hazmat
 - Tank Car
 - Environmental
 - Equipment design improvements



Preparedness / Community Outreach

- Response Plans
 - HMERP
 - OPA-90
 - GRP
- Training
 - Public Responders
 - Employees
 - Private/Industry
- Drills/Exercises
- Commodity Flow Data



TRAINS CARE



CHEMTREC
1971-2011: First in Response for 40 Years

The World's Leading Resource for information on
HAZARDOUS MATERIALS AND DANGEROUS GOODS.

[LEARN MORE TODAY](#)

CHEMTREC



ASSOCIATION OF
AMERICAN RAILROADS



RENEWABLE
FUELS
ASSOCIATION



The
Fertilizer Institute
Nourish. Replenish. Grow.

BNSF
RAILWAY



BUILDING AMERICASM

Public Information and Preplanning

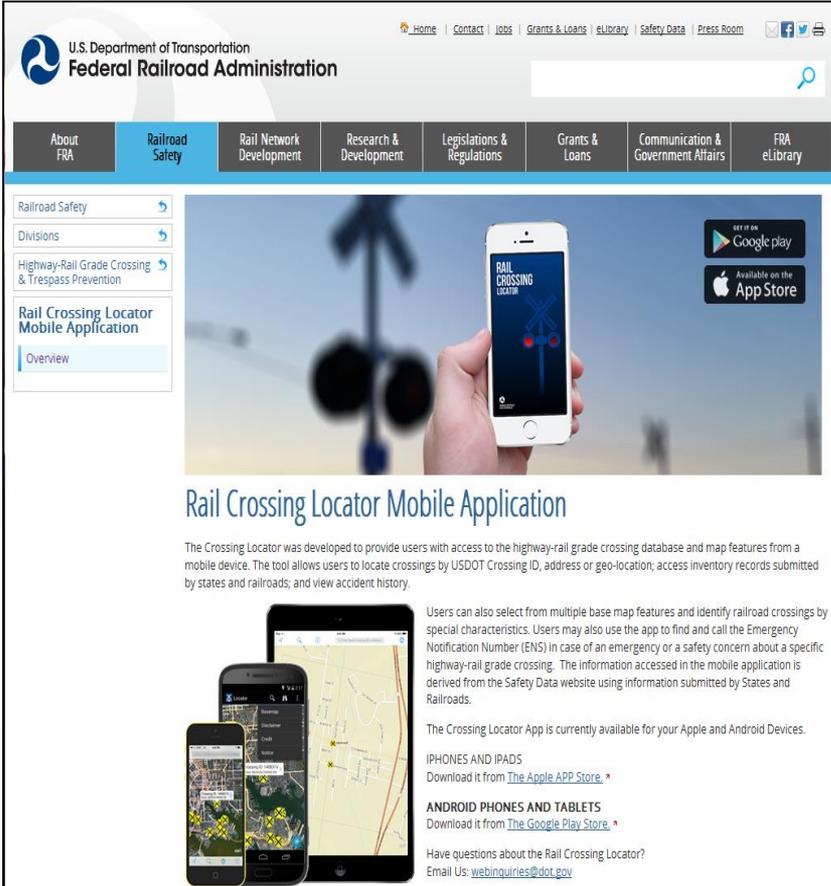
- DOT / FRA Crossing Inventory Website:

http://safetydata.fra.dot.gov/office_of_safety/publicsite/crossing/crossing.aspx

- DOT / FRA GIS Website:

<http://fragis.fra.dot.gov/GISFRASafety/>

- Rail Crossing Locator app



The screenshot shows the Federal Railroad Administration website. The header includes the U.S. Department of Transportation logo and the text "Federal Railroad Administration". Navigation links include Home, Contact, Jobs, Grants & Loans, eLibrary, Safety Data, and Press Room. A search bar is located on the right. The main navigation menu includes About FRA, Railroad Safety, Rail Network Development, Research & Development, Legislations & Regulations, Grants & Loans, Communication & Government Affairs, and FRA eLibrary. The "Railroad Safety" menu is expanded, showing links to Railroad Safety, Divisions, Highway-Rail Grade Crossing & Trespass Prevention, Rail Crossing Locator Mobile Application, and Overview. The main content area features a large image of a hand holding a smartphone displaying the "RAIL CROSSING LOCATOR" app. Below the image is the title "Rail Crossing Locator Mobile Application" and a description: "The Crossing Locator was developed to provide users with access to the highway-rail grade crossing database and map features from a mobile device. The tool allows users to locate crossings by USDOT Crossing ID, address or geo-location; access inventory records submitted by states and railroads; and view accident history." To the right of the description are "GET IT ON Google play" and "Available on the App Store" buttons. Below the description is a section titled "Users can also select from multiple base map features and identify railroad crossings by special characteristics. Users may also use the app to find and call the Emergency Notification Number (ENS) in case of an emergency or a safety concern about a specific highway-rail grade crossing. The information accessed in the mobile application is derived from the Safety Data website using information submitted by States and Railroads." Below this is a section titled "The Crossing Locator App is currently available for your Apple and Android Devices." with links to "IPHONES AND IPADS Download it from The Apple APP Store." and "ANDROID PHONES AND TABLETS Download it from The Google Play Store." At the bottom, there is a link to "Have questions about the Rail Crossing Locator? Email Us: webinquiries@dot.gov".

Response

- Safety
 - Employees
 - Community
- Coordination of Responders
 - Public Responders (IC)
 - Regulatory Agencies
 - Specialized Contractors
- Response Duties
 - Analyze the problem
 - Plan the response
 - Implement plan
 - Evaluate & adjust



Contact the Responsible Railroad

- BNSF.....800-832-5452
- CN.....800-465-9239
- Canadian Pacific.....800-716-9132
- CSX Transportation....800-232-0144
- Kansas City Southern.877-527-9464
- Norfolk Southern.....800-453-2530
- Union Pacific.....888-UPRR-COP (877-7267)



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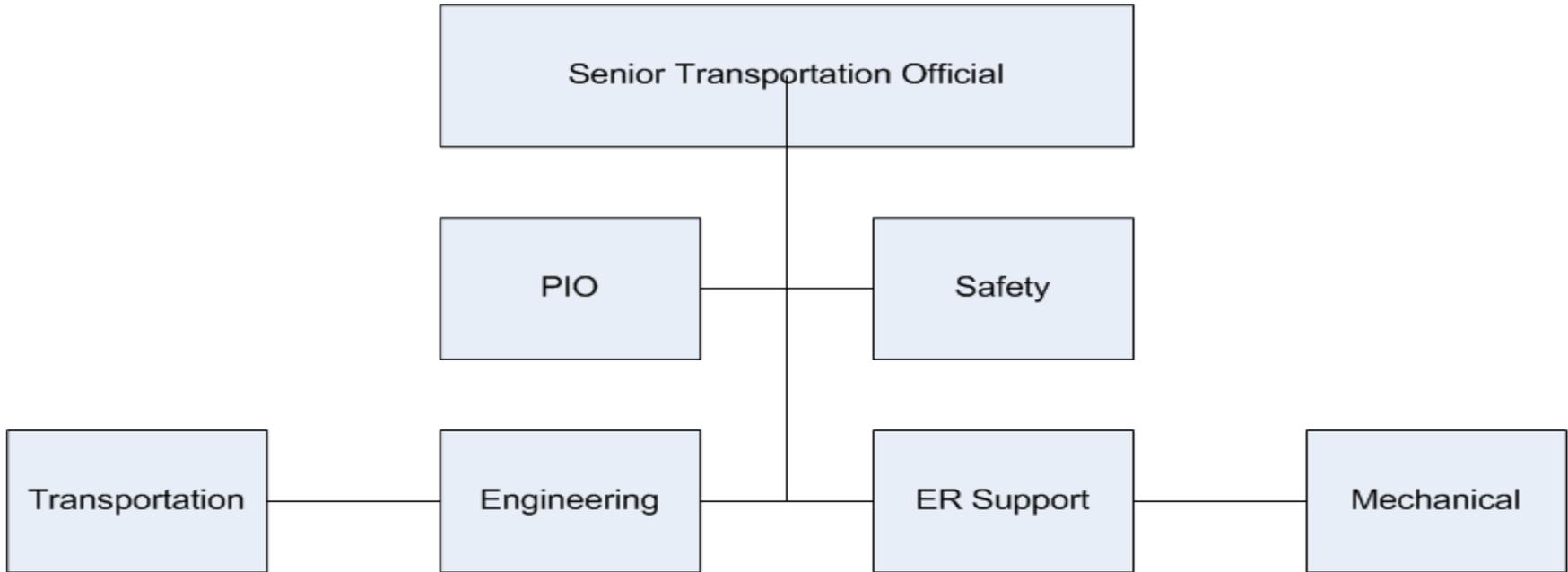
Assets Being Deployed

- Specialty Contractors
 - Hazmat Emergency Response (OSRO)
 - Environmental Professionals
 - Toxicological
 - Advanced air monitoring
 - MD's
 - Toxicologists
 - CIH's
 - RR Rerailing Contractors

Assets Being Deployed

- Fire fighting equipment / fire trailers
- Foam caches
- Chemical transfer equipment
- Hazmat specialists (tank car specialists)
- Industrial partners
- Specialty equipment
 - Air trailers, heavy equipment, frac tanks, steam units, etc

Railroad ICS Model



Safety & Regulatory Affairs

Police

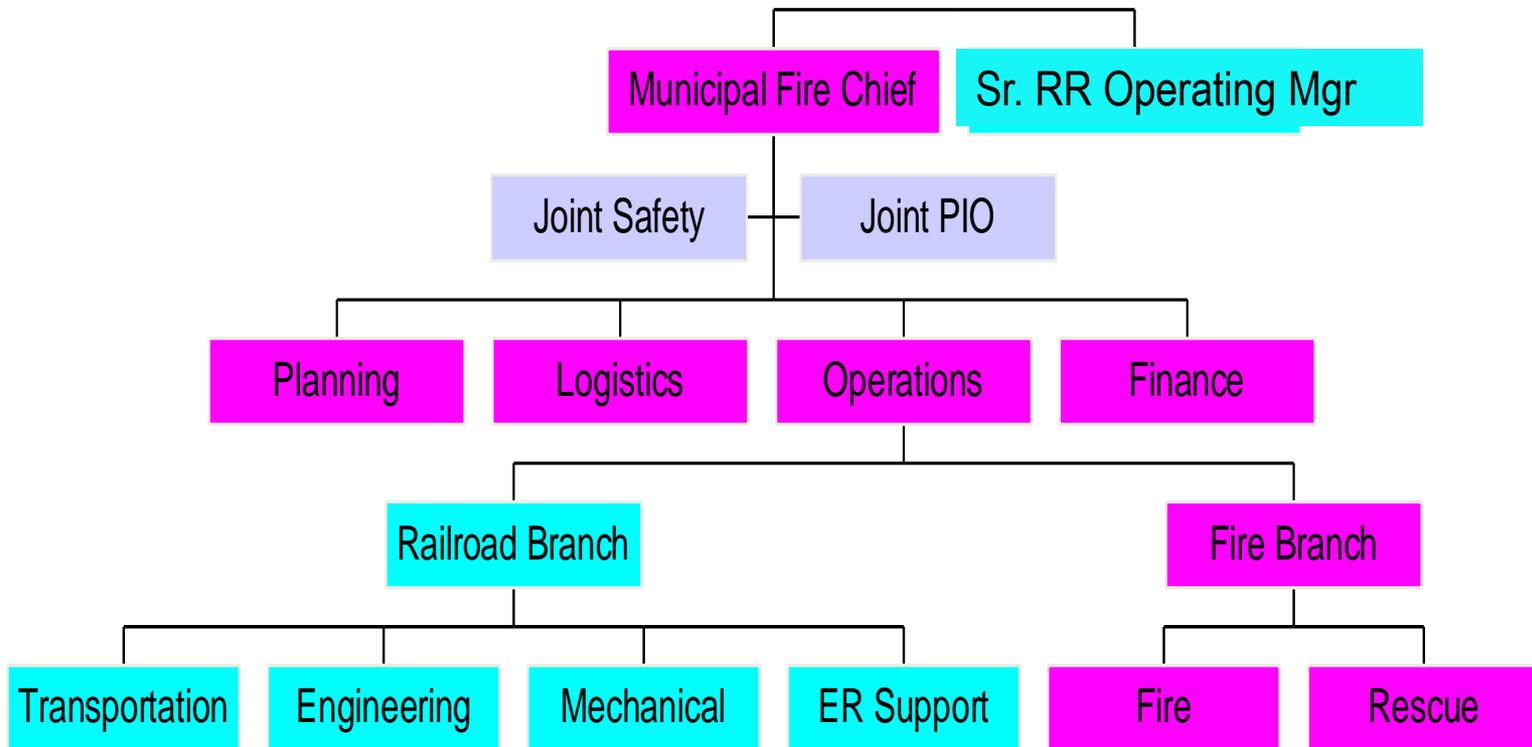
Hazmat

Environmental

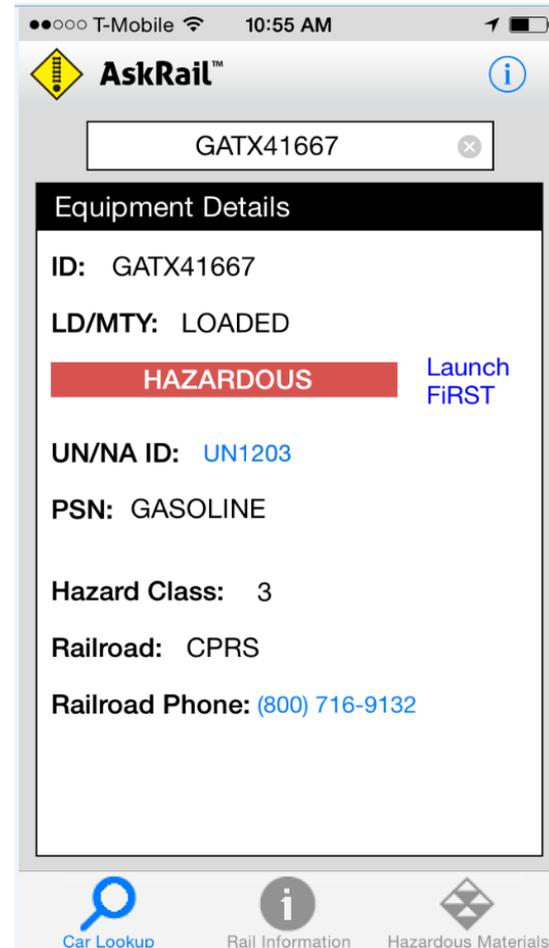
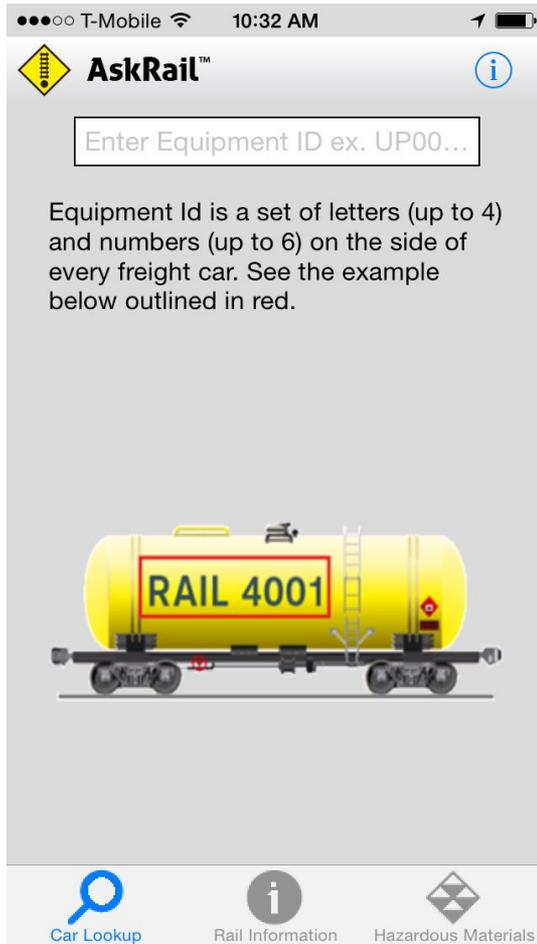
Public Affairs Group

Claims

Unified ICS Model

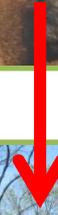


AskRail



Recovery

- Product/Container Fate
 - Product Removal/Transfer
 - Container decontamination/cleaning
- Incident Termination
 - Debriefing
 - Post Incident Analysis (PIA)
 - Required Reporting
- Site Remediation/Restoration



Questions

