Emergency Preparedness
Topics For Discussion

- The railroad network
- System protection
- Stakeholder engagement
- Response methodology
- Incident management
- Tactical considerations
System Protection Map
System Protection

• Response resources
  • Personnel
  • Equipment
  • Technology

• Training
  • Dangerous Goods Officer
  • Dangerous Goods Responder
  • Railroad employee
System Protection Model (DG)

- Dangerous Goods Officer (DGO)
- Dangerous Goods Responder (DGR)
- Emergency Response Contractors
- Industry Partners / ERAP Holders

- HAZMAT Specialist
- First Responder
- HAZMAT Technician
- Various areas of specialization
Stake Holder Engagement

• Industry programs
  • TransCAER
  • Responsible Care
  • Pueblo, CO (SERTC)
• CN programs
  • Structured community engagement
  • R.E.A.C.T.
  • CN 911
Community Outreach

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

Butadiene and Styrene
• Tires
• Shoes

Propylene
• Eyeglasses
• Water cooler bottles

Sodium Hydroxide
• In paper production
• In soaps
• In paint

Propane
• Barbecues
• Heating

• Tires
• Shoes
DG In Our Community

Percentage of rail cars loaded with dangerous goods versus the total of rail traffic transported by CN in the municipality of ????? = 4%

- 4 cars on a typical 100 car train could be a dangerous good

Types of dangerous commodities

Poisonous Materials: 6%
- Chlorine used to purify water supply and in household products such as bleach and disinfectant
- Anhydrous Ammonia used for fertilizer, refrigerants and in household cleaning products

Flammable Materials: 54%
- Propane used for home heating and BBQ bottles
- Gasoline and Diesel Fuel as well as Crude Oil for refineries

Other Dangerous Goods: 15%
- Asphalt used for roads and construction
- Ammonium nitrate used in agriculture as a fertilizer

Corrosives: 25%
- Sodium Hydroxide used in soap manufacturing, pharmaceutical, mining and soft drink industries
- Batteries for vehicles
- Acetic acid used for vinegar, food preservative as well as industrial applications
Responder Training Programs

- TransCAER / CN 911 car
- CN R.E.R. Course
- CN RR Specialist Courses
- Project R.E.A.C.T
- Pueblo Outreach Week

Joint Training Exercises
Notification Visor Card

PRECAUTIONS TO TAKE AT THE SITE OF A DERAILMENT & CN EMERGENCY RESPONSE PROCESS

DO NOT APPROACH THE TRAIN UNLESS YOU ARE SURE IT IS SAFE TO DO SO.

Tank cars, loaded or residue, present the most obvious threat during an incident. However, dangerous goods are also transported in other rail cars, trailers, and containers.

If you are first at the scene, make every effort to keep the public and any potential source of ignition away from the cars involved in the incident.

Determine the contents involved by checking the documentation held by the train conductor, member of the train crew or the on-scene coordinator.

For shipments of dangerous goods, this documentation will include, at a minimum, a shipping document describing the commodity being transported and will include emergency telephone numbers. A copy of the Emergency Response Guidebook will also be available.

Documentation will normally be available from the train conductor at the scene. Should the train conductor and crew be disabled, documentation can be found on the lead locomotive.

Should the train’s crew be unable to provide assistance, a copy of the train consist and Dangerous Goods shipping documents can be generated by calling the 24 hour emergency telephone number.

CN 24 HOUR EMERGENCY TELEPHONE NUMBER:
800-465-9239

(CN - 2005)
Incident Methodology

- Activate ERP and Logbook
- Establish a perimeter
- Establish Incident Command System
- Begin site assessment
- Establish control zones
- Apply tactics
- Terminate the incident
CN Emergency Response

- **Network Operations**
  - Mechanical Dept.
  - Engineering Dept.
  - Transportation Dept.

- **E.R. Support Team**
  - Safety & Regulatory Affairs
  - Police
  - Dangerous Goods Group
  - Environmental Group
  - Risk Mitigation Group
  - Public Affairs Group

- **External Support**
  - Industry Response Teams
  - ER Contractors
  - Municipal Response Teams
Emergency Response Resources

- Municipal
- State/Provincial
- Federal
- Railroad
- Shipper
- Contractor
- ERAP?
Unified Command

Municipal Fire Chief  CN General Manager

Joint Safety  Joint PIO

Planning  Logistics  Operations  Finance

Railroad Branch  Fire Branch

Transportation  Engineering  Mechanical  ER Support  Fire  Rescue

Team Leader

Safety

Entry  Decon  Equipment  Research

NTSB  BOE  FRA  FBI
Tactical Considerations

- Physical characteristics
  - material
  - container
- Responder capability

- Time
- Weather
- Location
- Resources
Emergency Preparedness

Thank You!

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