

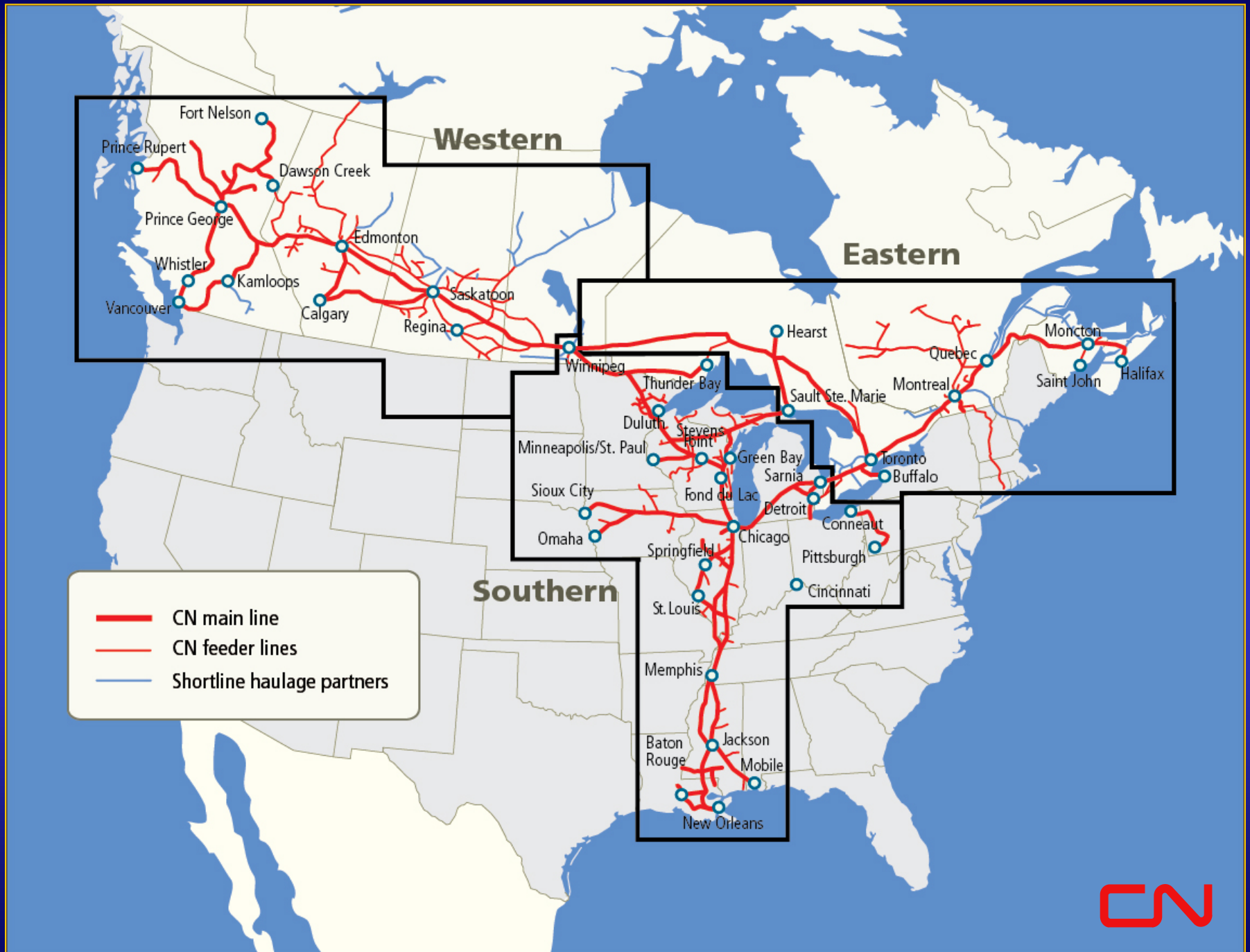
# Emergency Preparedness



# Topics For Discussion

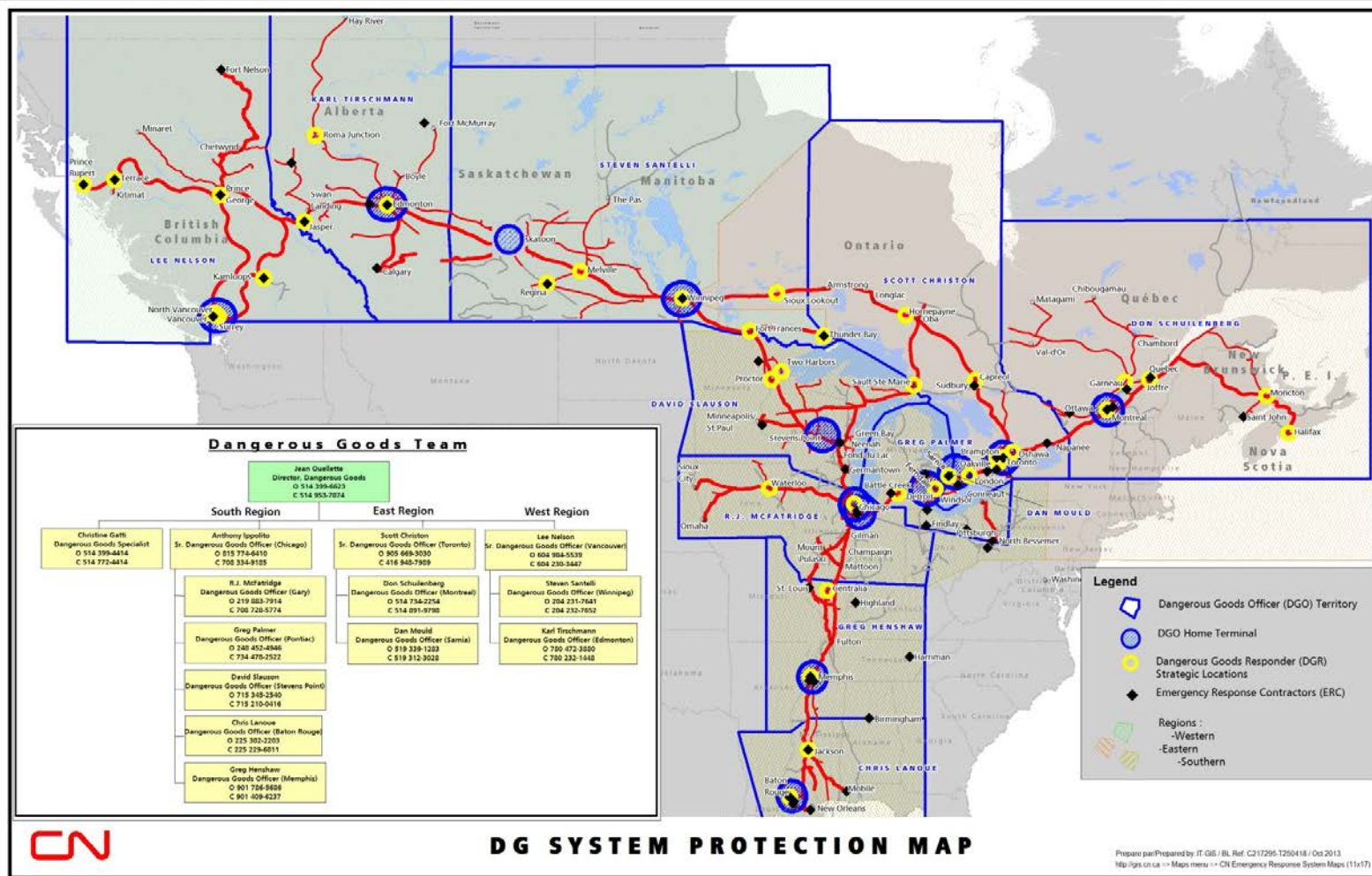
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- The railroad network
- System protection
- Stake holder engagement
- Response methodology
- Incident management
- Tactical considerations





# System Protection Map



# System Protection

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- Response resources
  - Personnel
  - Equipment
  - Technology
- Training
  - Dangerous Goods Officer
  - Dangerous Goods Responder
  - Railroad employee

# System Protection Model (DG)

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Dangerous Goods  
Officer (DGO)

HAZMAT Specialist

Dangerous Goods  
Responder (DGR)

First Responder

Emergency Response  
Contractors

HAZMAT Technician

Industry Partners /  
ERAP Holders

Various areas of  
specialization

# Stake Holder Engagement

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- 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

## Propane



- Barbecues
- Heating

## Propylene



- Eyeglasses
- Water cooler bottles

## Sodium Hydroxide



- In paper production
- In soaps
- In paint





# 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

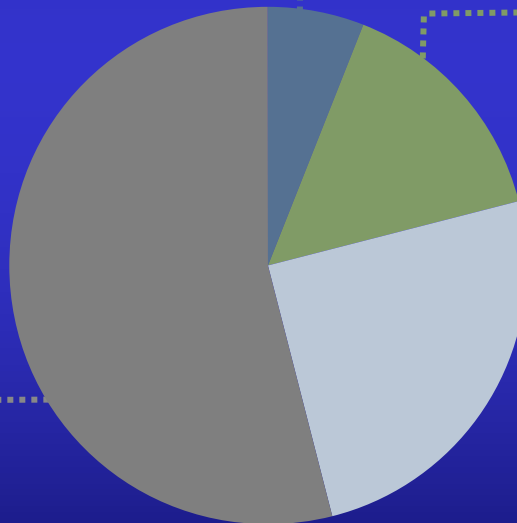
## Types of dangerous commodities

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



# 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.

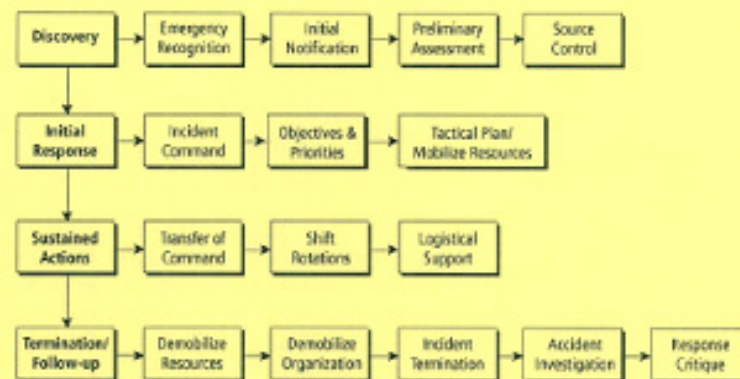
For shipments of dangerous goods, this documentation will include, at a minimum, a shipping document describing the commodity being transported and will include emergency telephone numbers. A copy of the Emergency Response Guidebook will also be available.

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

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- 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

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- 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





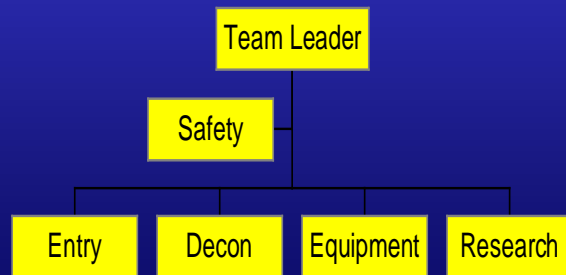
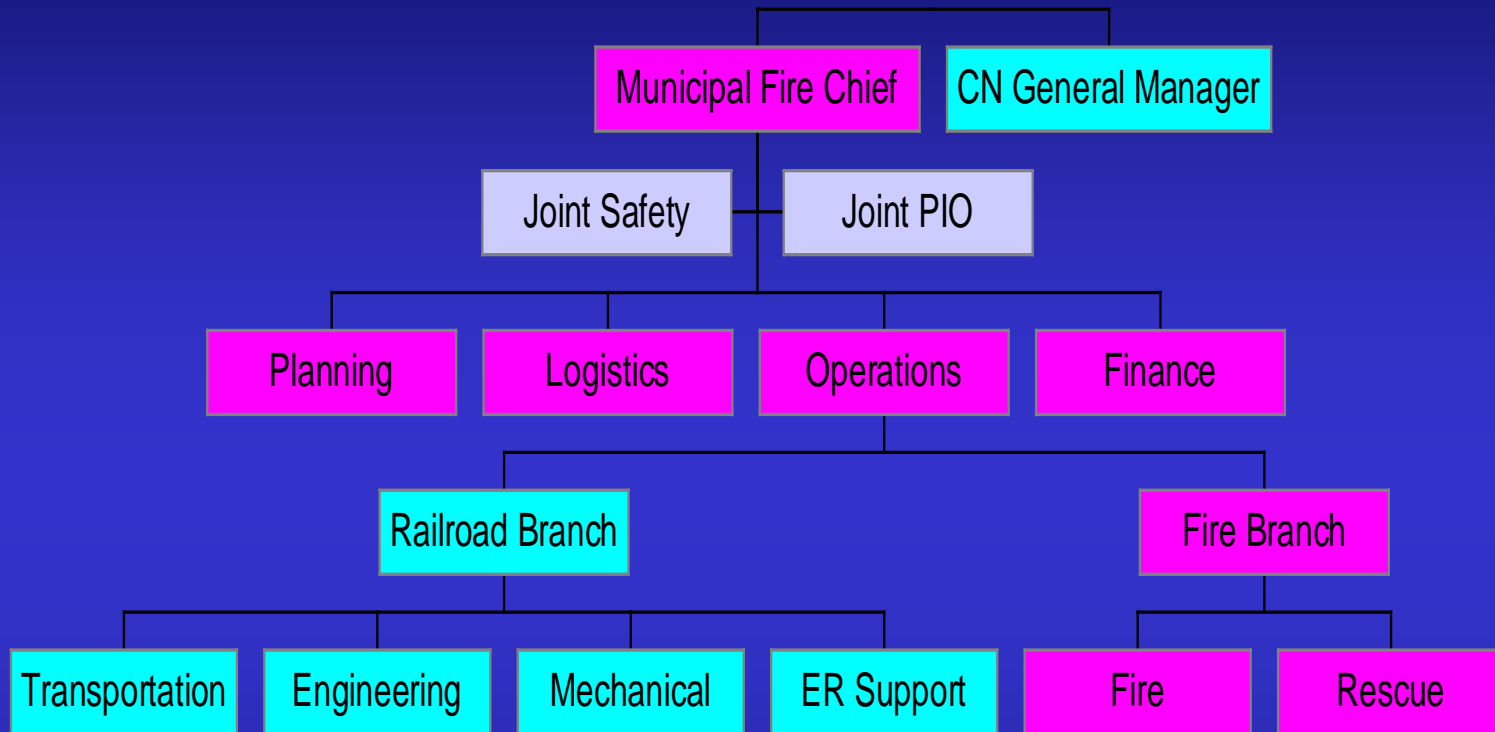
# Emergency Response Resources



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

# Unified Command

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NTSB

BOE

FRA

FBI



# Tactical Considerations

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- Physical characteristics
  - material
  - container
- Responder capability



- Time
- Weather
- Location
- Resources



# Emergency Preparedness

