



15th Annual OSC Readiness Training Program

Instructors

Cris D'Onofrio-USEPA, OSC Patrick Brady-BNSF, Asst. Director HazMat Ops Danny Simpson-CN, Asst. VP Safety and ER Glenn Millner, PhD- CTEH, Partner and Principal Paul Nony, PhD-CTEH, Senior Toxicologist



Railroad Emergency Response What OSCs Need to Know







Welcome!

- Your host & Instructor (s)
- Safety briefing
- Course Materials
- Student manuals
- Student Introductions





Course Agenda

- Railroad Awareness and Emergency Response
 - RR Organization
 - System Protection
 - Emergency Response
- Railroad Incident Site Assessment
 - Assessment
 - Tactical Priority
- Spy Hill
 - An Overview
- OSHA 1910.120 and NFPA 472
 - History and Evolution



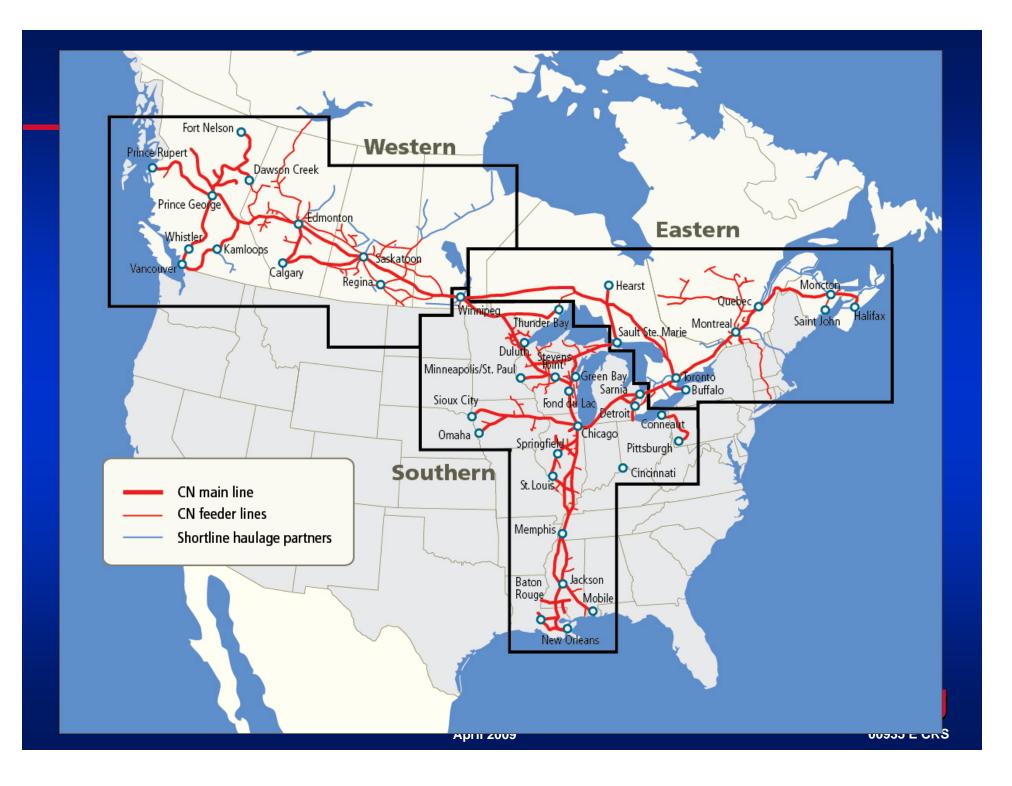


Site Assessment











Transportation Organization

- Responsibility
 - Region
 - Division
 - Zone
 - Terminal / Subdivision

- Leadership Position
 - Sr. Vice President
 - General Manager
 - Superintendent
 - Trainmaster





Chain of Command

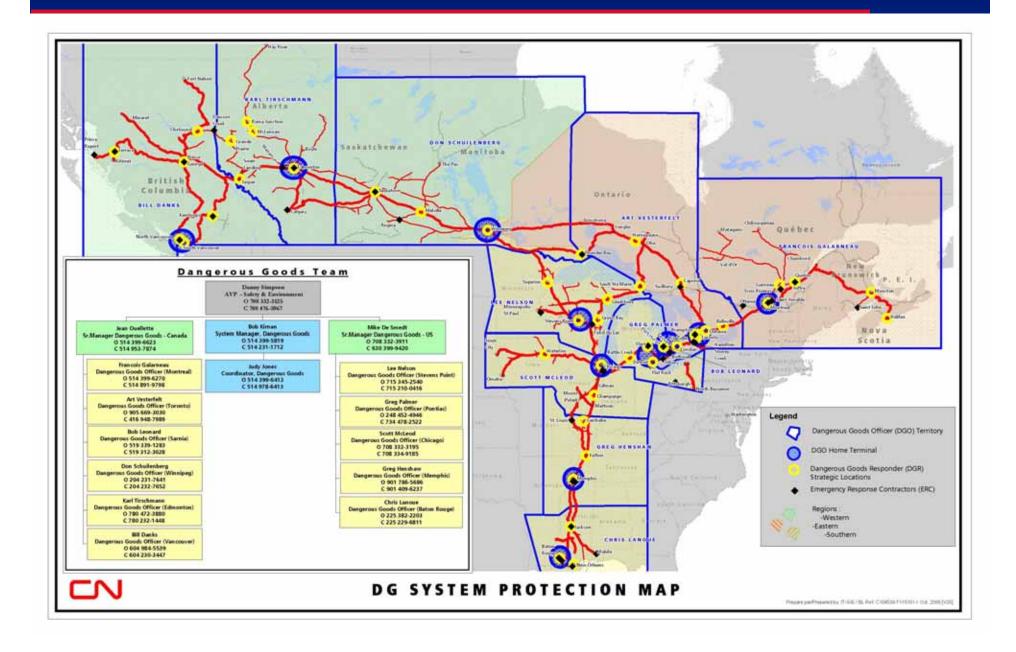
- Fire Service
 - Fire Chief
 - Assist. / Bat. Chief
 - Captain
 - Lieutenant

- Railroad
 - Vice President
 - General Manager
 - Superintendent
 - Trainmaster

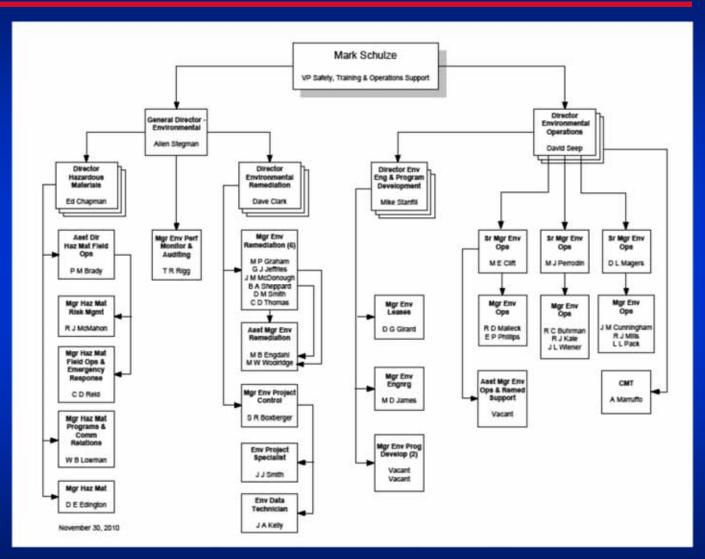




System Protection



BNSF Hazmat and Environment





BNSF Hazmat and Environment

Environmental Remediation Team Map

Director, Dave Clark 785-435-2210



Bruce Sheppard
 Seattle, WA

Manager Environmental Remediation 206-625-6035 (w) 206-790-0696 (c)

Mark Engdahl Seattle, WA Assistant Manager Environmental Remediation 206-625-6376 (w) 206-465-5976 (c)

2. Dave Smith Helena, MT Manager Environmental Remediation 406-447-2307 (w) 303-809-8050 (c)

3. Greg Jeffrier Minneapolis, MN Manager Environmental Remediation

763-782-3490 (w) 612-868-7995 (c)

612-845-2029 (c)

951-317-2741 (c)

Mike Woolridge Minneapolis, MN

San Bernardino, CA

Assistant Manager Environmental Remediation 763-782-3483 (w)

Manager Environmental Remediation 909-386-4081 (w)

5. Judy McDonough Kansas City, KS

4. Matt Graham

Manager Environmental Remediation

913-551-3989 (w) 612-802-1734 (c)

6. Charles Thomas Fost Worth, TX

Manager Environmental Remediation 817-740-7341 (w) 817-233-2076 (c)

June 24, 2010

Environmental Operations Team Map

Senior Manager Environmental Operations

Mike Perrodin – Northern Area Mike Clift – South/West Area Dillon Magers – Eastern Area



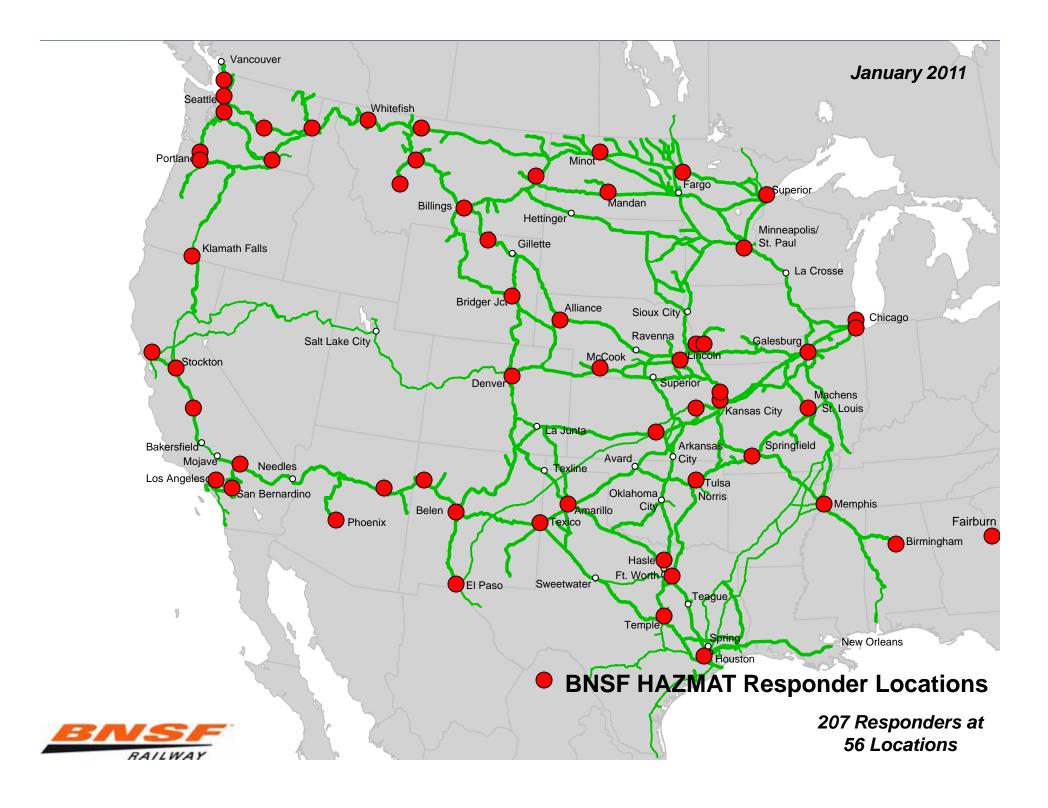
- Jennifer Wiener, Mgr Env Operations Seattle, WA 206-623-6034 (w) 206-979-9652 (bb)
- Mike Perrodin, Senior Mgr Env Operations Havre, MT 406-265-0483 (w) 406-265-0881 (bb)
- Bob Kale, Mgr Env Operations Mandan, ND 701-667-2201 (w) 612-817-3964 (bb)
- 4. Ron Buhrman, Mgr Env Operations Lincoln, NE 402-458-7633 (w) 402-432-0156 (bb)
- Edward Phillips, Mgr Env Operations San Bernardino, CA 909-386-4082 (w) 909-266-3518 (bb)
- 6. Ron Malleck Mgr Env Operations Denver, CO 303-480-7442 (w) 303-885-2315 (bb)

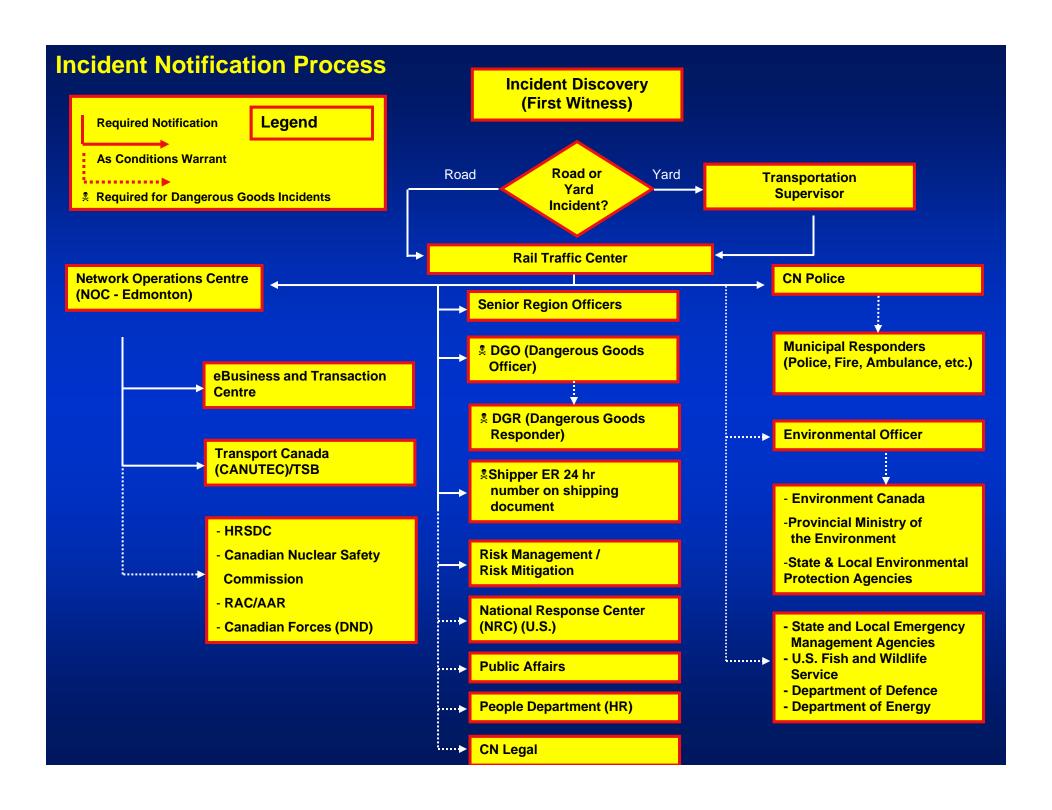
Nevember 30, 2010

- Mike Clift, Senior Mgr Env Operations Fort Worth, TX 817-740-7356 (w) 817-733-4326 (bb)
 - Vacant, Ant Mgr Env/Opt Remed Support Fort Worth, TX 817-740-
- 8. Ryan Mills, Mgr Env Operations Topeka, KS 785-435-2257 (w) 785-250-4821 (bb)
- Lorraine Pack, Mgr Env Operations
 Ft Worth, TX 817-740-2646 (w)
 817-832-6163 (bb)
- 10. Jim Cunningham, Mgr Env Operations Kansas City, KS 913-551-3990 (w) 612-817-1587 (bb)
- 11. Dillon Magers, Senior Mgr Env Operations Springfield, MO 417-829-4979 (w) 417-861-5396 (bb)

bb - Blackberry









Railroad Mile Post Number

DOT Crossing Number

Call the railroad and report your location and situation.

Emergency
Contact Number

BNSF RAILWAY IN EMERCENCY CALL 1-800-832-5452

4TH ST

M.P. 277.43

DOT 059544P

00935 E CRS

Notification Visor Card

CN

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.

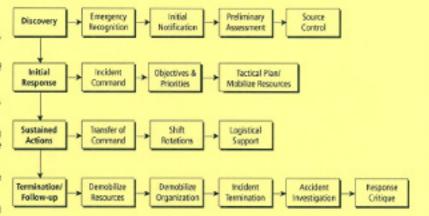
Documentation will normally be available from the train conductor at the scene. Should the train conductor and crew be disabled, documentation can be found on the lead locomotive.

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)







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





Contracted Response - Expectations



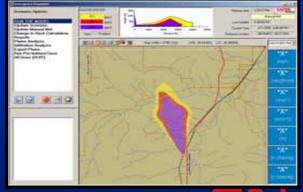




- Experience
- Locations
- Limitations
- Ability
- Duties
- Equipment
- •Regulatory Compliance
 - Training
 - •Respiratory
 - •Med. Surveillance
- Contract Compliance
 - Audit
 - •Drills
 - •Experience











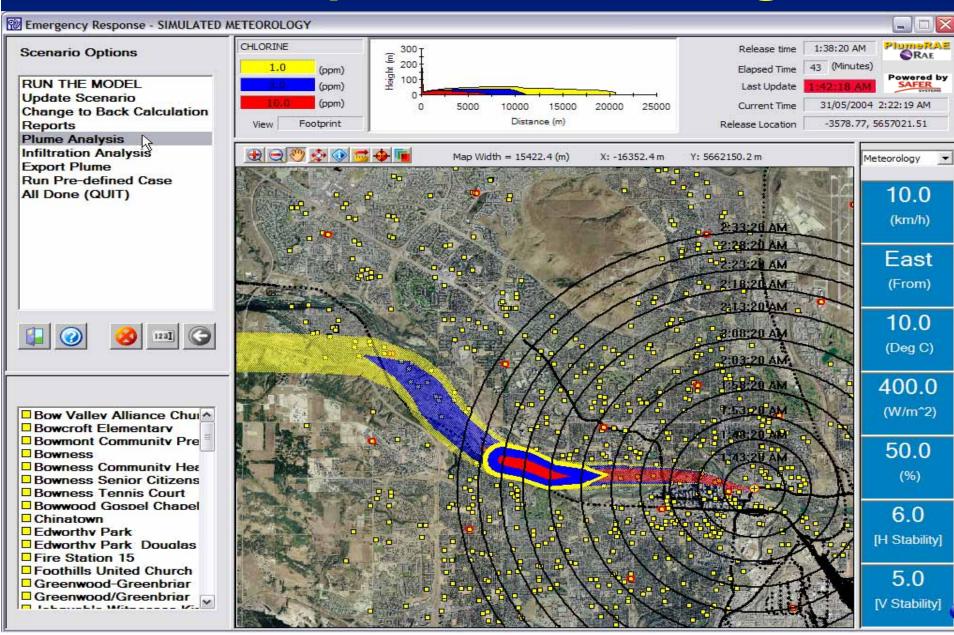
CTEH

- Centers for Toxicology and Environmental Health
- www.cteh.com
- Advanced Air Monitoring
- Plume Modeling
- Continuous air monitoring and data logging
- Assist in determining necessary evacuation distances to protect responders and the public
- Can help determine PPE requirements





Plume Dispersion Modelling



Emergency Response Resources



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





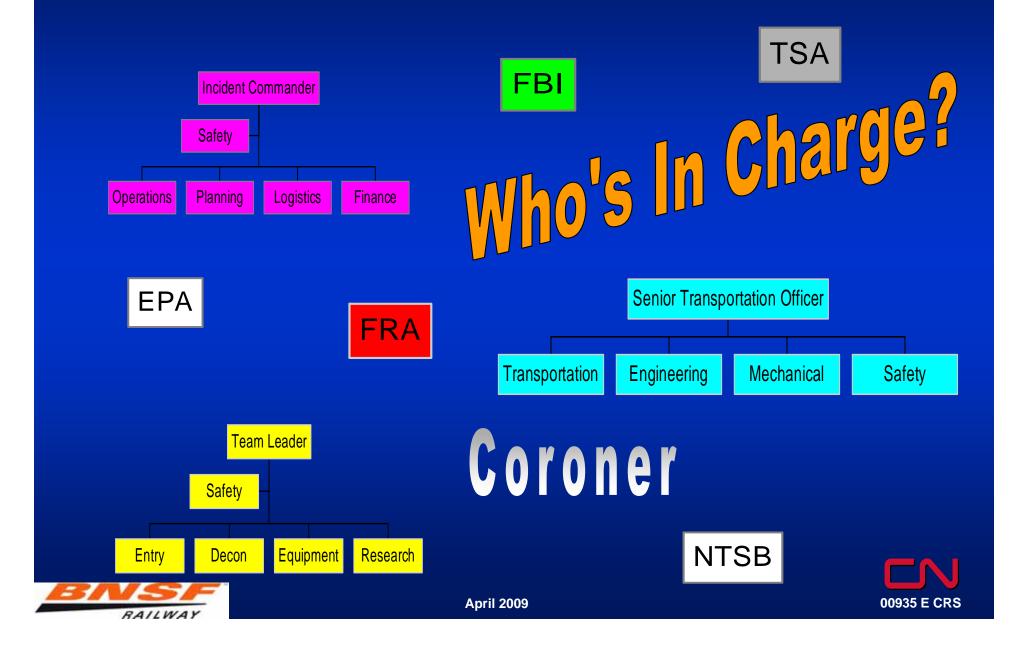
ICS Integration



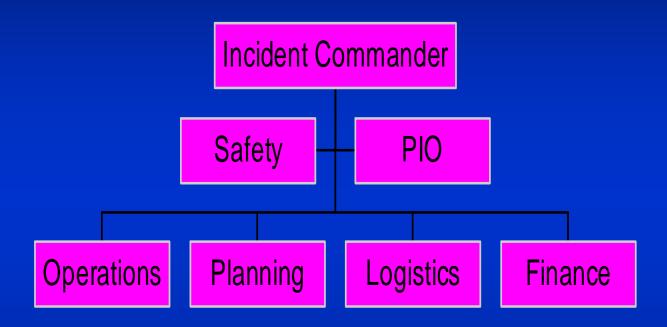




Jurisdictional Authority



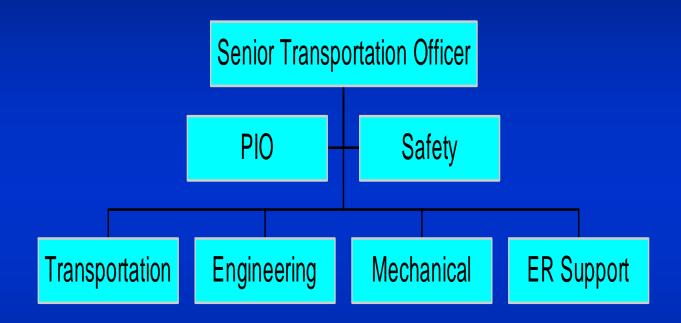
NIMS ICS Model







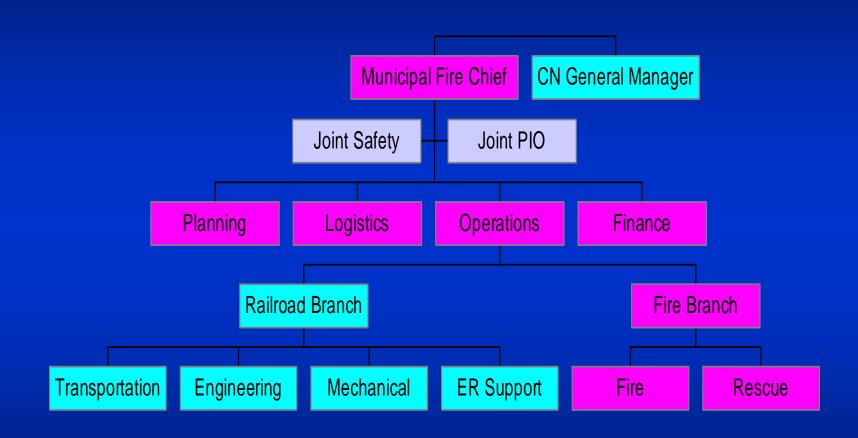
Railroad ICS Model







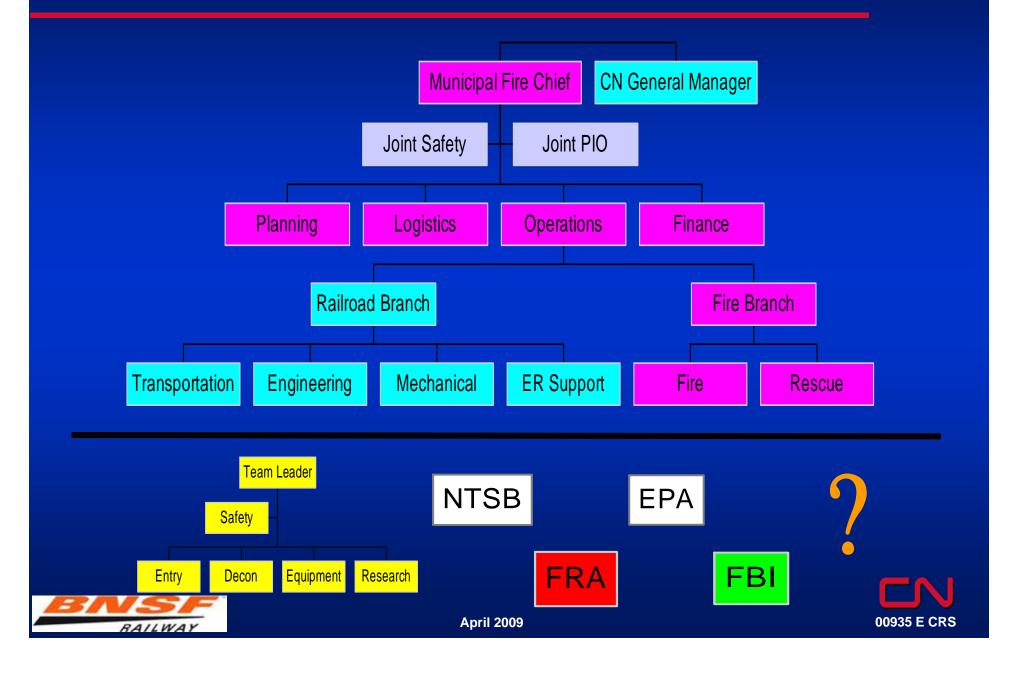
Unified Command







Unified Command



Incident Methodology

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





Emergency Response Process

