

## BNSF RAIL SAFETY OVERVIEW

### APRIL 27, 2016 LAKEWOOD, WA





### **BNSF's Safety Overview**

- Rail is safest mode of land transportation.
- BNSF's safety vision is to prevent accidents in the first place.
- BNSF has a broad-based risk reduction program.

Prevention

### Mitigation Response



## Prevention

#### **Bridge and Track Inspections**

BNSF inspects tracks and bridges more often than required by FRA

- Most BNSF key routes inspected four times weekly and busiest daily
- Geometry car inspections performed at least two times on crude oil routes annually

#### Increased Rail Detection Testing Frequencies Along Critical Waterways

Increased rail detection testing along critical waterways from the FRA frequency of twice annually to **2.5 times in April 2015** 

#### **Equipment Detection Technology**

- More than 2,000 trackside detectors
- 10 mile spacing along the Columbia River

### **Speed Restrictions**

50 MPH and 35 MPH in Populations > 100K

### Positive Train Control (PTC)







## Mitigation: New Tank Car Standards

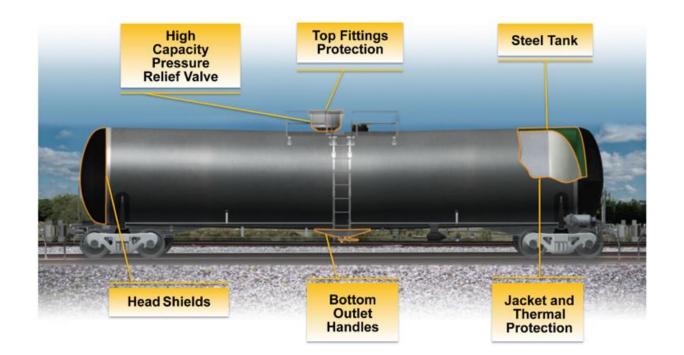
### Tank Cars for High-Hazard Flammable Trains (HHFT)

New tank cars built after Oct. 1, 2015, must meet enhanced DOT 117 design or performance criteria for HHFT:

 Increased thickness from 7/16 inch to 9/16 inch steel

Thermal protection required

- Jacketing with minimum 11-gauge steel and weather-tight
- Full-height Head Shield 1/2-inch thick





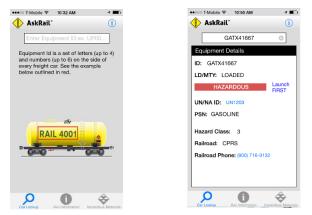
## **Response:** First Responder Access to Information

Historically, BNSF has provided local first responders information about hazmat shipments upon request. *Today we go even further* 

- Since July 2014, BNSF provides State Emergency Response Commissions with Bakken crude traffic train counts on transport of 1 million+ gallons.
- BNSF offers SECURETRAK website, a real-time Geographic Information System tracking program, to state and/or regional fusion centers.
- Industry launched AskRail app to provide first responders with car-specific data for hazmat contents and railroad contacts during incident.
- BNSF developed national inventory of resources for first responders, staging of emergency response equipment and community notification contacts.
- BNSF launched <u>www.BNSFHAZMAT.com</u> website to provide information such as training and emergency response plans to first responders.



#### **SECURETRAK Website**



#### AskRail App

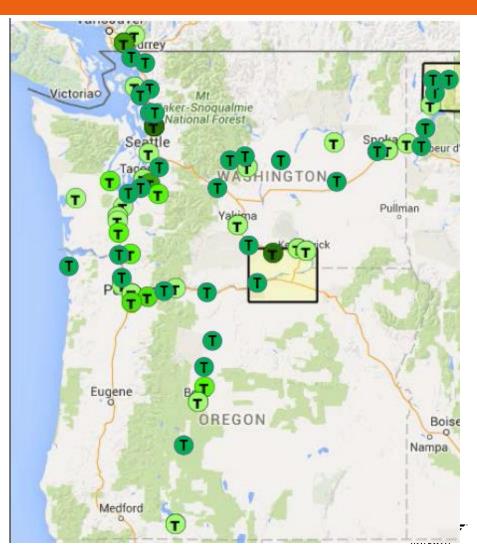


## **Response:** Hazmat Training

2013 to Current - Trained over 3500 responders in the PNW

Sponsored 1<sup>st</sup> responders to attend a 3 day CBR ER Class

- **2014 = 204**
- 2015 = 115
- 2016 (scheduled) = 44



# ER Equipment Allocation in NW

Locate specialized equipment (oil spill containment booms, hydraulic skimming systems, oil recovery bladders and other equipment which has traditionally not been found in inland locations.

