HOW TOWORROW MOVES





CSX TRANSPORTATION

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CSX in America

CSX operates in:

- 23 states, 2 Canadian Provinces, and DC
- 700 counties
- 13,000 jurisdictions

Infrastructure includes:

21,000 route miles 37,000 physical track miles Bridges, Tunnels, Classification Facilities, Dispatch Centers, Office Buildings.

Transportation Service Provided:

Coal
Automotive
Grain/Agriculture
Food/ Consumer Goods
Metals
Chemicals





Life-Cycle of a Shipment





Car is constructively placed at customers track







Customer Prepares
Car for Pick-up



Cars are classified in rail yard for delivery





Railroad accepts car in to transport

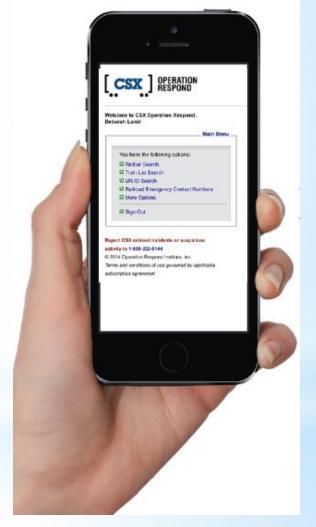


The right tool, for the right people, at the right time





- CSX Operation Respond is a mobile emergency information system
- ✓ Designed specifically for emergency first responders
- ✓ Aids in responding to rail related emergencies especially those involving hazardous materials
- Provides <u>real-time</u> information on the contents of rail cars
- ✓ Provides <u>real-time</u> complete train list information
- ✓ Provides a suite of other useful emergency response information
- ✓ Works with iPhone, Android devices and most web browsers





Operation Respond addresses a longstanding NTSB recommendation

"In 2007, we first recommended that the FRA work with the Pipeline and Hazardous Materials Safety Administration to require that railroads provide emergency responders accurate, real-time information regarding the identity and location of all hazardous materials on a train. Today we reiterated this recommendation. Making this communication mandatory across the rail industry will enable first responders to have access to the information that they need."

NTSB Acting Chairman, Christopher A. Hart Closing Statement, Paulsboro, NJ, Train Derailment Board Meeting July 29, 2014

And that of legislative and local officials

"...emergency responders don't have access to real-time information about the hazardous materials they (the railroads) carry"*

U.S. Senator Charles Schumer

"Anything they can do to provide real-time information to us so that we have it immediately is going to help us."*

Buffalo NY Fire Commissioner Garnell Whitfield

* May 1, 2014, WIVB News 4, Buffalo, NY



How it works - An emergency responder simply needs to enter a rail car's identification number (e.g. UTLX-259813) to access:

- Contents of the rail car
- Detailed emergency response guidelines for the commodity
- A complete train list showing all the rail cars in the train with those carrying hazardous materials highlighted for easy identification





Besides getting <u>real-time</u> information on the contents of rail cars in a train, an emergency responder also has access to:

- Railroad emergency contact information
- Tank car diagrams
- Amtrak passenger car diagrams
- HazMat UN number search
- Chemical databases
- Water reactive chemicals list
- List of most common hazardous materials transported by CSX
- CSX unit train emergency response guide





Currently 1100+ emergency responders in multiple states

Anticipate covering the entire CSX network by July 2015

- 23 states
- 21,000 miles of track
- 13,000 local jurisdictions

Two user levels - Advanced and Basic

- Advanced access to all information and typically provided to chiefs and other incident command staff
- Basic access to all information except train list and intended for basic firefighters

Further enhancements are planned for 2015 including

 Map-based list of sensitive receptors such as water intakes and watersheds

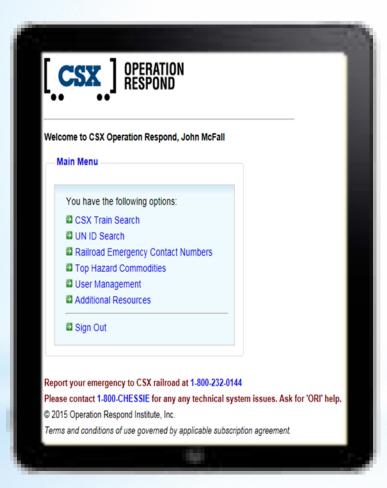


Builds upon other tools provided by CSX to emergency response agencies for providing information about the commodities transported through states and local communities by CSX

- <u>CSX SecureNOW</u> a map-based geographical train and rail car monitoring tool that allows homeland security and emergency management centers to track CSX trains in real-time
 - In place in 20 of the 23 states where CSX operates
 - In place at U.S.DOT, TSA and CHEMTREC
- <u>CSX HazMat Density Reports</u> for over 20 years CSX has been providing detailed hazmat density reports to local community emergency response and planning officials





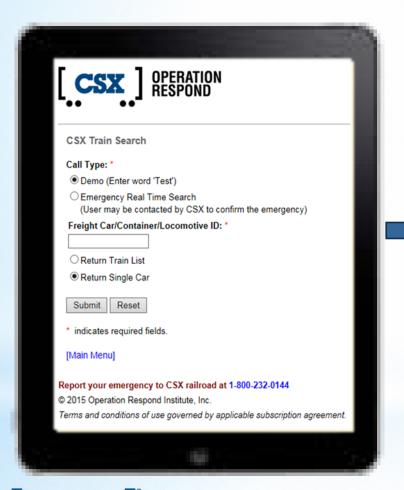


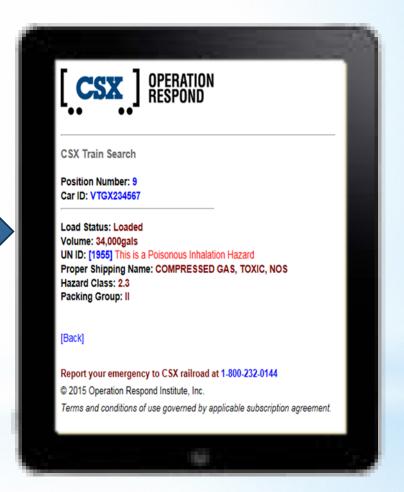
Main Menu

- ✓ Train Search
- ✓ UN ID Search
- ✓ Load/Empty Status
- ✓ Railroad Emergency Numbers
- ✓ Top Hazard Commodities
- ✓ User Management
- ✓ Additional Resources



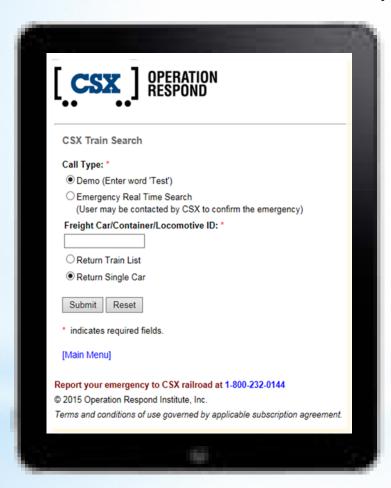
Single Railcar Search







Train List Search (Advanced Users)



Train List Search Results

- ✓ Entire Train Consist
- ✓ Car Sequence Order
- ✓ Load/Empty Status
- ✓ Railcar ID Number
- ✓ Color Coded HazMat ID
 - White Non HazMat
 - Red HazMat
 - Red/Gold TIH/PIH
- √ HazMat Classification

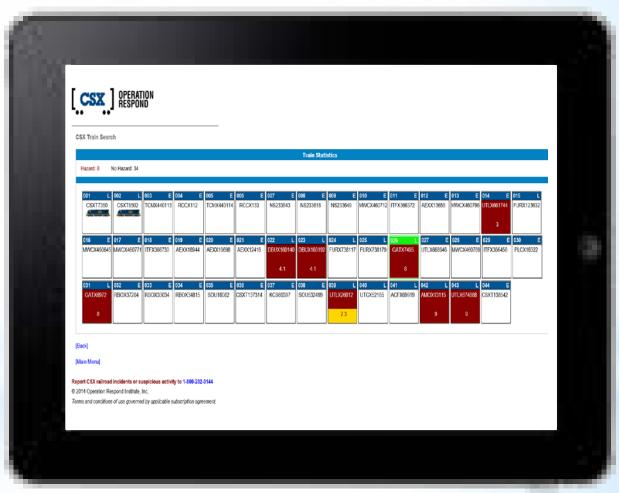


Train List Search (Advanced Users)

Each box links to railcar contents page

HazMat cars easy to locate

- White Non HazMat
- Red HazMat
- Red/Gold TIH/PIH

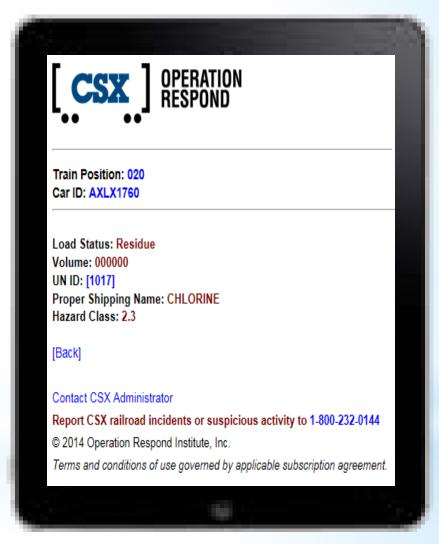




Train List Search (Advanced Users)

Railcar Contents

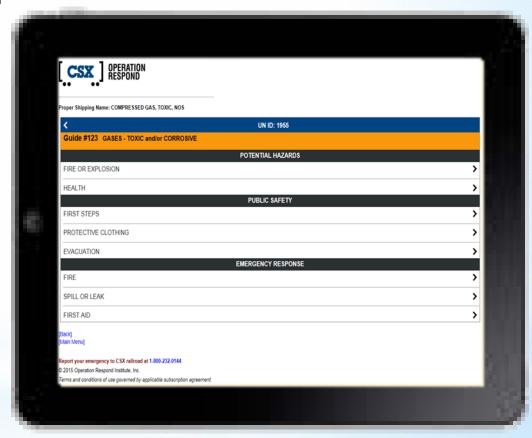
- ✓ Train Position
- ✓ Car ID
- ✓ Load Status
- ✓ Volume
- ✓ UN ID# (link)
- ✓ Commodity
- ✓ Hazard Class





UN ID Number Search

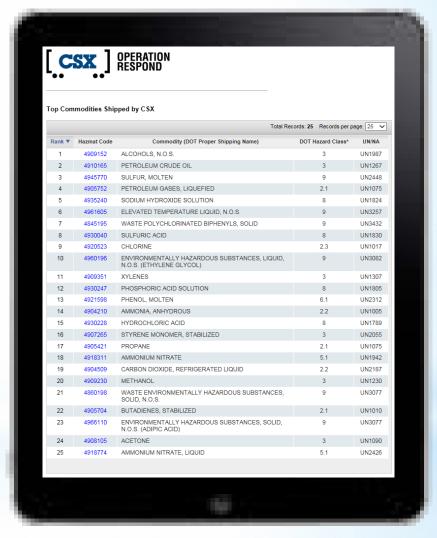
- ✓ UN ID Number
- ✓ NAERG Number
- ✓ Commodity
- ✓ Protective Actions





CSX Top 25 Hazard Commodities

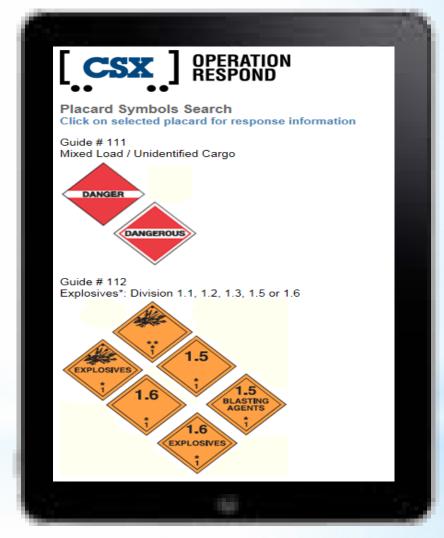
- ✓ Linked to AAR HazMat Database
- ✓ Commodity
- ✓ Hazard Class
- ✓ UN Number





Placard Symbols

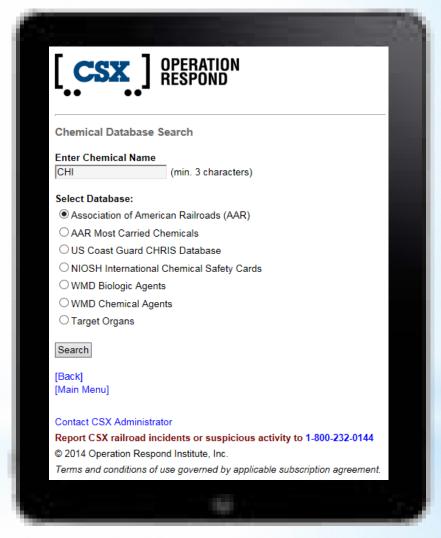
- ✓ NAERG Number
- ✓ Contents
- ✓ HazMat Information





Chemical Databases

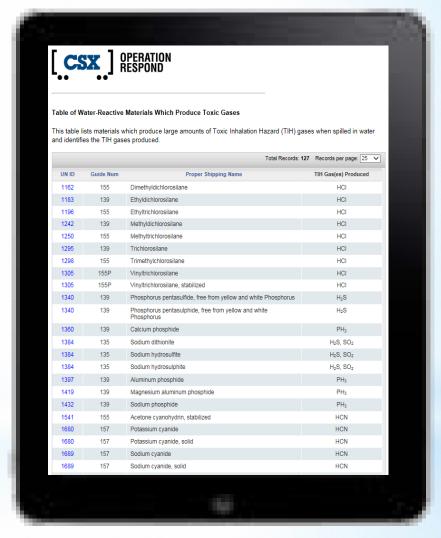
- ✓ Searches 7 databases
- ✓ UN ID Number
- ✓ Commodity Name
- ✓ HazMat Class
- ✓ Content Description
- ✓ HazMat Information





Water Reactive Chemical List

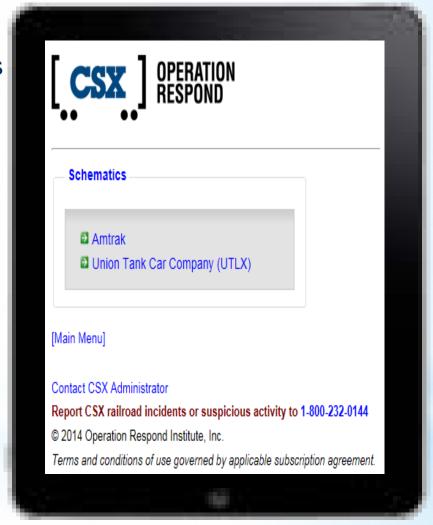
- ✓ UN ID Number
- ✓ Guide Number
- ✓ Commodity Name
- ✓ TIH (Gas) Produced





Schematics

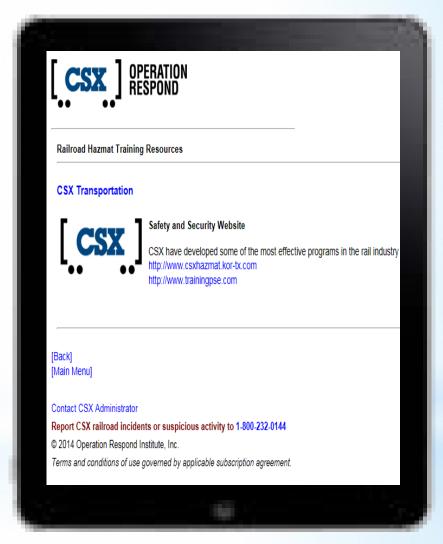
- ✓ Amtrak Passenger Cars
- ✓ Tank Cars





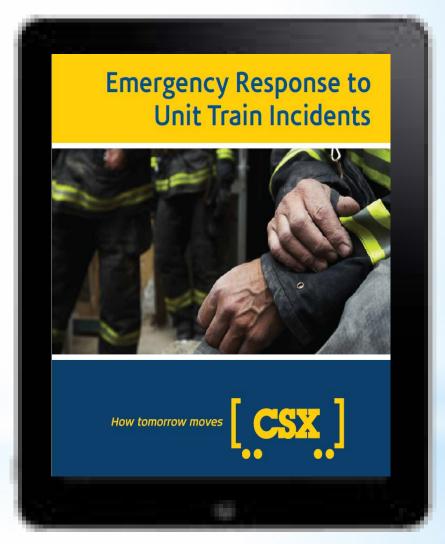
CSX HazMat Training Resources

- ✓ Computer-based training
- ✓ Self-study training
- ✓ Reference guides
- √ Face-to-face training





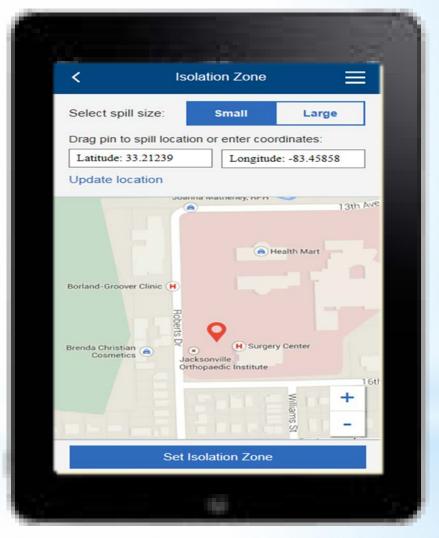
CSX Unit Train Guide





2015 Enhancements

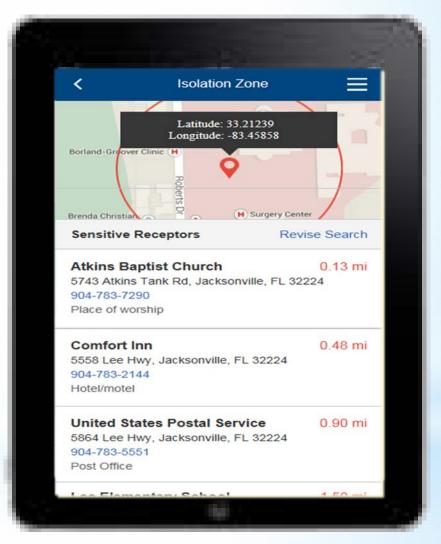
- ✓ Isolation Zone
 - √ Based on Geo Location
 - **✓ Railcar Commodity**
 - √Spill Size (Small or Large)





Set Isolation Zone

✓ Provides Sensitive Receptors within the isolated area





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