



# Emerging Oil Transportation Update

November 2016

# Meetings with Class 1 RRs



February 2016



August 2015



September 201



## HIGH HAZARD FLAMMABLE LIQUID TRAIN (HHFT) INCIDENTS:

### MYTHS, FACTS AND OBSERVATIONS

Gregory G. Noll, CSP, CEM

South Central (PA) Task Force

January 25, 2016

## INTRODUCTION

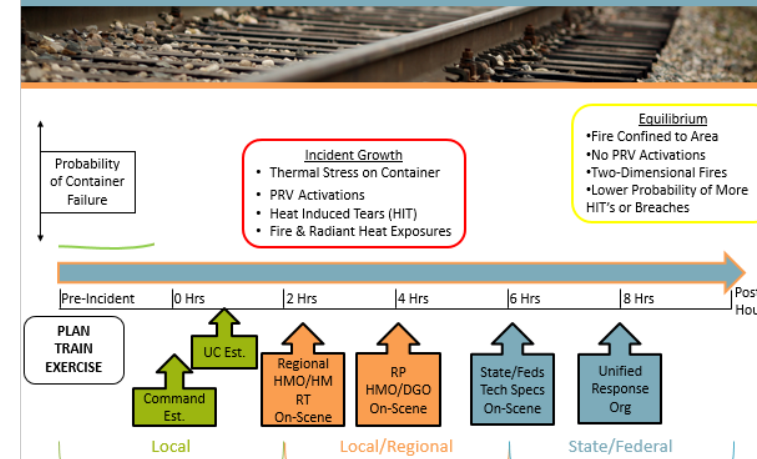
Changes in the North American energy sector have brought new challenges to the emergency response community, especially in many geographic areas where there has not historically been a large energy sector footprint. These changes have involved oil and gas exploration, production and manufacturing facilities, as well as the expansion of transportation modes, corridors and operations to meet the needs of the emerging marketplace.

This background paper will focus on flammable liquid unit trains, primarily those transporting crude oil and ethanol. The U.S. Department of Transportation – Pipeline and Hazardous Materials Safety Administration (DOT / PHMSA) defines High Hazard Flammable Liquid Trains (HHFT) as trains that have a continuous block of twenty (20) or more tank cars loaded with a flammable liquid or thirty-five (35) or more cars loaded with a flammable liquid dispersed throughout a train.

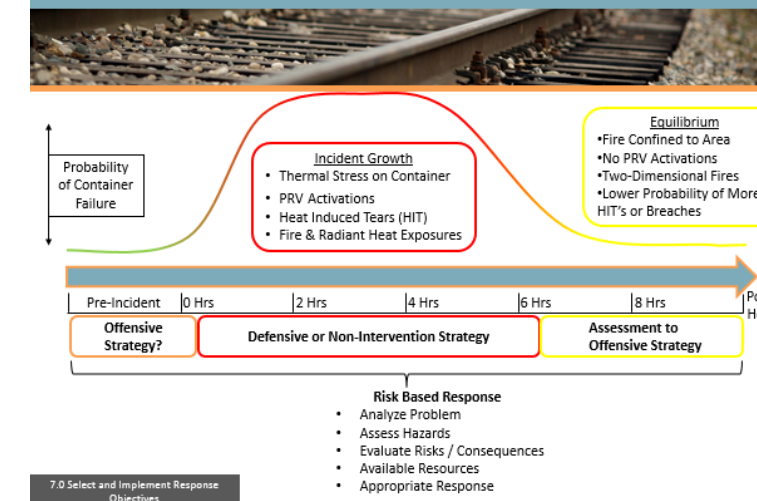
The objectives of this paper are to assist emergency planning and response personnel in preparing for HHFT incident scenarios. The information is based upon an analysis of previous

## Response Training based on the HHFT Paper

### Stress / Breach / Release behaviors



### PROBLEM vs. Response Timeline





# TRIPR

## FLAMMABLE LIQUID UNIT TRAINS

**Transportation Rail Incident Preparedness & Response (TRIPR)** Liquid Unit Trains resource materials developed in by DOT in 2015.

**Team:** Public safety agencies, rail carriers, and industry subject matter experts.

**Purpose:** Prepare first responders to safely manage rail incidents involving crude oil and ethanol.

**Target Audience:** Haz-Mat First Responders



U.S. Department  
of Transportation

Pipeline and  
Hazardous Materials  
Safety Administration



# TRIPR Evolution

## TRIPR TRAINING MODULES

has been  
to include:  
per Overview  
Studies  
discussion  
toring  
Planning

- **1.0 Pre-Incident Planning (EPA/DOT)**
- **2.0 Incident Management Principles**
- **3.0 Problem Identification**
- **4.0 Hazard Assessment & Risk Evaluation**
- **5.0 Select Proper PPE Clothing & Equipment**
- **6.0 Logistics & Resource Management**
- **7.0 Select & Implement Response Objectives**
- **8.0 Clean-up & Post-Emergency Operations**
- **9.0 Scenarios**

1.0 Pre-Incident Planning and  
Preparedness

### Marshall TRIPR Agenda (8/12/16 Update)

TRIPR Module	Speaker	Updated
(1)Module 0 Overview	Dollhopf	6/20/16
(2)Module 0.1 HHFT/TRIPR Intro	Noll	6/20/16
(3)Module 3 Problem Identification	Hester/Dankbar/Eichten	6/20/16
(4)Module 4 Hazard Assessment	Hester/Dankbar/Eichten	6/20/16
Break		
(5)Module 2 Incident Management	Renninger	6/20/16
(6)Module 1 Pre-Incident Planning	EPA Thomas/Schademann	8/9/16
(7)Module 6 Logistics/Resources	Hester/Dankbar/Eichten	8/5/16
(8)Module 5 Select PPE/Equipment	Razny	7/18/16
(9)4.1 EPA Air Monitoring	EPA Thomas	6/20/16
Lunch Break		
(10)Module 7 Response Objectives	Hester/Dankbar/Eichten	6/20/16
(11)7.1 Scenario B Panel Discussion	Renninger/Dollhopf Panel: FD/RRs/MPCA/EPA Schademann	6/20/16
Break		
(12)Module 8 Cleanup/Post ER Ops	EPA Thomas	8/9/16
(13)Case Studies (by RRs)	Brownsville (Buckholtz) Mosier (Eichten)	
(14)Course Summary	Dollhopf	6/20/16

ated



# TRANSPORTATION RAIL INCIDENTS PREPAREDNESS AND RESPONSE MARCH 15, 2016 At BGSU

The Transportation Rail Incidents Preparedness and Response (TRIPR), Flammable Liquid Unit Trains event was developed to provide critical information on best practices related to rail incidents involving hazard class 3 flammable liquids, such as Crude Oil and Ethanol. A key component of this initiative is to learn from past experiences and to leverage the expertise of public safety agencies, rail carriers, and industry subject matter experts in order to prepare first responders to safely manage incidents involving flammable liquids unit trains. More information is available at: <http://dothazmat.vividims.com/tools.asp>

Training will be held on Tuesday, March 15, 2016 from 8:00 AM-5:00 PM Eastern at the Bowling Green State University, Bowen-Thompson Student Union with \$1 parking available in a Visitor Parking Lot. To attend this training event, please RSVP to Jaime Julian ([julian.jaime@epa.gov](mailto:julian.jaime@epa.gov)) by Friday, March 11, 2016. Parking Information and Registration will be sent to the initial 150 First Responders that RSVP. RSVP must be received in order to attend the training event. This class may not be available in the area again.



FREE TRAINING FOR  
FIRE, LEPC, EMA, AND  
ALL NW OHIO & SE  
MICHIGAN FIRST  
RESPONDERS

FIRST MIDWEST  
OFFERING OF  
NATIONAL DEVELOPED  
TRAINING

8 HOUR TRAINING FOR  
FIRST RESPONDERS IN  
COMMUNITIES WITH  
RAIL TRAFFIC

GOVERNMENT AND  
INDUSTRY LED  
TRAINING FROM THE  
FOLLOWING:



## Presentation Team included:

DOT Mark Razny

NS John Lerner

CSX Joe Caccamo

CN Greg Palmer

Local Fire Dept

Ohio EPA

EPA Dollhopf/Julian/Renning

Attendance = 220



ted



# TRANSPORTATION RAIL INCIDENTS PREPAREDNESS AND RESPONSE TRAINING APRIL 28, 2016 At Prairie Island Indian Community Center, Welch, MN

The Transportation Rail Incidents Preparedness and Response (TRIPR), Flammable Liquid Unit Trains event was developed to provide critical information on best practices related to rail incidents involving hazard class 3 flammable liquids, such as crude oil and ethanol. A key component of this initiative is to learn from past experiences and to leverage the expertise of public safety agencies, rail carriers, and industry subject matter experts in order to prepare first responders to safely manage incidents involving flammable liquids unit trains. More information is available at: <http://dothazmat.vividms.com/tools.asp>

Training will be held at the Prairie Island Indian Community Center in Welch, MN. To attend this training event, please RSVP to Dave Morrison ([morrison.david@epa.gov](mailto:morrison.david@epa.gov)) by April 7, 2016. Parking Information and Registration will be sent to the first 100 First Responders that RSVP.

FREE TRAINING  
FOR FIRE  
DEPARTMENT,  
LEPC, EMA AND  
FIRST  
RESPONDERS

FIRST OFFERING  
OF NATIONAL  
DEVELOPED  
TRAINING IN MN

8 HOUR TRAINING  
FOR FIRST  
RESPONDERS IN  
COMMUNITIES  
WITH RAIL  
TRAFFIC

TRAINING  
DEVELOPED AND  
PROVIDED BY:



## Presentation Team include

DOT Mark Razny

BNSF Pat Brady

CP Dale Buckholtz

MPCA

EPA Dollhopf/Julian/Ren

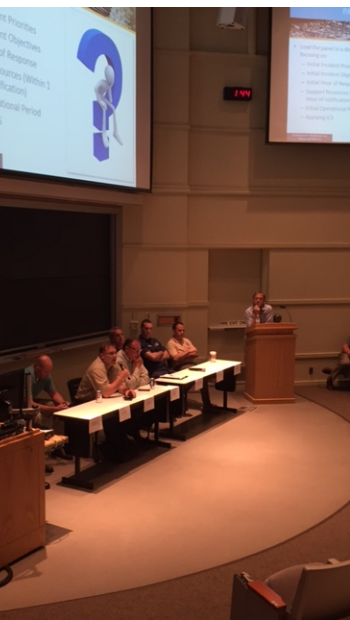
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Attendance = 65





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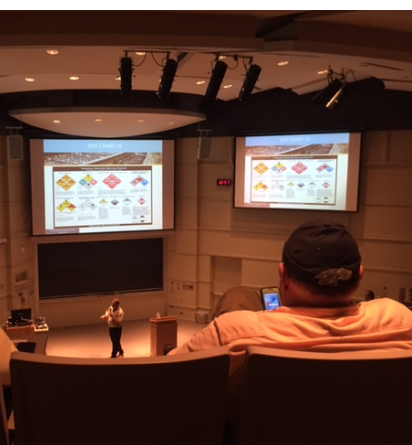


# TRANSPORTATION RAIL INCIDENT PREPAREDNESS AND RESPONSE TRAINING

**JUNE 20, 2016**  
At the University of Notre Dame  
South Bend, IN

The Transportation Rail Incident Preparedness and Response (TRIPR) training resources were developed to provide critical information on best practices related to rail incidents involving hazard class 3 flammable liquids, such as crude oil and ethanol. A key component of this initiative is to learn from past experiences and to leverage the expertise of public safety agencies, rail carriers, and industry subject matter experts in order to prepare first responders to safely manage rail incidents involving flammable liquids. More information is available at:  
<http://dothazmat.vividfilms.com/tools.asp>

Training will be held at the University of Notre Dame in South Bend, IN, on June 20, 2016, from 8 am – 4 pm. To attend this free training event, please register at:  
[www.SignUpGenius.com/q0/30E0545A5AC22A0F58-south](http://www.SignUpGenius.com/q0/30E0545A5AC22A0F58-south)  
by **June 1, 2016**. Parking and registration information will be sent once registration closes.



**FREE TRAINING  
FOR FIRE  
DEPARTMENT,  
LEPC, EMA, AND  
FIRST  
RESPONDERS**

**FIRST OFFERING  
OF NATIONALLY  
DEVELOPED  
TRAINING IN  
INDIANA**

**8-HOUR TRAINING  
FOR FIRST  
RESPONDERS IN  
COMMUNITIES  
WITH RAIL  
TRAFFIC**

**TRAINING  
DEVELOPED AND  
PROVIDED BY:**



## Presentation Team included:

**DOT Mark Razny  
NS John Lerner  
CN Anthony Ippolito  
CN Greg Palmer  
South Bend Fire Dept  
IDEM  
EPA Dollhopf/Julian/Renning  
Lam/Beslow**

**Attendance = 66**





# Tribal Conference, Uncasville, CT

## August 16, 2016



Presentation Team include

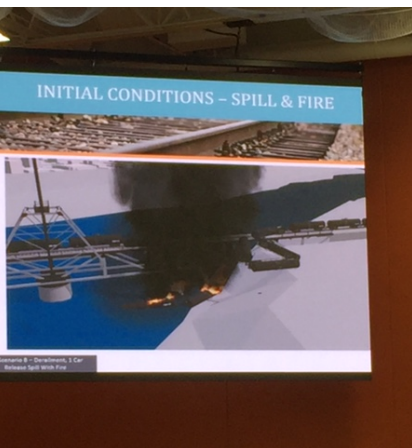
CP Dale Buckholtz

CSX Ryan Prewitt

EPA Dollhopf/Ruesch

Attendance = 20

ated



## TRANSPORTATION RAIL INCIDENTS PREPAREDNESS AND RESPONSE TRAINING

AUGUST 24, 2016

MARSHALL, MN

The Transportation Rail Incidents Preparedness and Response (TRIPR), Flammable Liquid Unit Trains event was developed to provide critical information on best practices related to rail incidents involving hazard class 3 flammable liquids, such as crude oil and ethanol. A key component of this initiative is to learn from past experiences and to leverage the expertise of public safety agencies, rail carriers, and industry subject matter experts in order to prepare first responders to safely manage incidents involving flammable liquids unit trains. More information is available at:

<http://dothazmat.vividlms.com/tools.asp>

Training will be held at the Red Baron Arena in Marshall, MN.

<http://www.redbaronarena.com/>

Hotel information for Marshall, MN is available at

<http://visitmarshallmn.com/main/index.php/2015-02-10-16-01-27/hotels-b-b>

To attend this training event, please RSVP using this link

[www.SignUpGenius.com/go/20E0545A5AC22A0F68-marshall](http://www.SignUpGenius.com/go/20E0545A5AC22A0F68-marshall)  
by August 23, 2016. Logistics and additional registration information will be provided in advance of the training date.

FREE TRAINING  
FOR FIRE  
DEPARTMENT,  
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SECOND OFFERING  
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TRAINING IN MN

8 HOUR TRAINING  
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RESPONDERS IN  
COMMUNITIES  
WITH RAIL  
TRAFFIC

TRAINING  
DEVELOPED AND  
PROVIDED BY:



## Presentation Team included

DOT Mark Razny  
BNSF Paul Hester  
UP Joe Eichten  
CP Dale Buckholtz/Ed Dankb  
Local Fire Dept  
PHMSA contractor Greg Nol  
MPCA  
EPA Dollhopf/Renninger/Th  
EPA Region 7

Attendance = 102



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# TRANSPORTATION RAIL INCIDENTS PREPAREDNESS AND RESPONSE TRAINING

OCTOBER 5, 2016  
8 AM – 4 PM  
Hjemkomst Center  
202 1<sup>st</sup> Avenue N.  
Moorhead, MN 56560

The Transportation Rail Incidents Preparedness and Response (TRIPR) training was developed to provide critical information on best practices for responding to rail incidents involving hazard class 3 flammable liquids, such as crude oil and ethanol. A key component of this initiative is to learn from past experiences and to leverage the expertise of public safety agencies, rail carriers, and industry subject matter experts in order to prepare first responders and emergency services personnel to safely manage incidents involving flammable liquids unit trains. More information is available here:

<http://www.phmsa.dot.gov/hazmat/osd/emergencyresponse/TRIPR>

To attend this **free** training event, please RSVP by September 28, 2016, using this link:

[www.SignUpGenius.com/gp/30E0545A5AC22A0F58-transportation](http://www.SignUpGenius.com/gp/30E0545A5AC22A0F58-transportation)

*Please note that space is limited, so reserve your seat today!*

For more information, contact Andy Maguire at 322-353-8762 or via email at [andy@maguire.org](mailto:andy@maguire.org).

FREE TRAINING  
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DEPARTMENT,  
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FIRST  
RESPONDERS

THIRD OFFERING  
OF NATIONALLY  
DEVELOPED  
TRAINING IN MN

8 HOUR TRAINING  
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RESPONDERS IN  
COMMUNITIES  
WITH RAIL  
TRAFFIC

TRAINING  
DEVELOPED AND  
PROVIDED BY:



## Presentation Team includes:

DOT Mark Razny  
BNSF Paul Hester  
CP Dale Buckholtz  
Local Fire Dept  
MPCA  
EPA Dollhopf/Renninger  
Maguire  
EPA Region 8

**Attendance = 55**







## TRAINING ANNOUNCEMENT

### TRANSPORTATION RAIL INCIDENT PREPAREDNESS & RESPONSE: HIGH HAZARD FLAMMABLE LIQUID UNIT TRAIN (HHFT)

#### EVENT DESCRIPTION:

As part of New York State's ongoing, cooperative multi-agency effort initiated by Governor Cuomo's Executive Order 125 to improve planning, preparedness and response capabilities for any incident involving the transportation of crude oil and other ignitable liquids by rail across the State, New York State will be hosting a one day workshop promoting the resources provided in the Transportation Rail Incident Preparedness & Response (TRIIPR) Flammable Liquid Unit Train program. TRIIPR was developed by the U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) in collaboration with the Federal Railroad Administration (FRA), the U.S. Fire Administration (USFA), Environmental Protection Agency, U.S. Coast Guard, TRANSCAER®, the Association of American Railroads (AAR), rail industry owners and operators, the American Petroleum Institute (API), Renewable Fuels Association (RFA) and the emergency response community to address the hazards associated with incidents involving flammable liquid unit trains. The goal of this session is to provide participants with guidance and resources to better prepare first responders for incidents involving flammable liquid unit trains.



The workshop will be facilitated by Greg Noll, representing PHMSA as a member of the TRIIPR Development Team and a recognized expert in hazardous materials response.

Please feel free to forward this invitation to members of your organizations that would be interested in attending.

#### INTENT:

The goal of this workshop is to expand awareness of the TRIIPR program and share lessons learned from HHFT incidents along with the expertise of public safety agencies, rail carriers and industry subject matter experts. The resources supplied are not intended to be a standalone training program but are offered to supplement existing programs. All information and resources provided via the TRIIPR program can be edited and modified to suit an instructor's or training program needs.

TRIIPR training program materials are available here: <http://dot-hazmat.vividims.com/tools.asp>

#### TARGET AUDIENCE:

Local, County, State and Federal agencies providing pre-incident planning, training, response or recovery functions for incidents involving rail transportation of ignitable liquids.

#### DATE & TIME:

Wednesday, November 30th 2016

8:00 – 8:30 Welcome & Registration

8:30 – 12:00 Overview of TRIIPR modules 1-6: Pre-Incident Planning, Incident Mgt., Problem ID, Hazard Assessment, Safety and Logistics/Resource Mgt.

1:00 – 4:00 Overview of TRIIPR module 7: Response Objectives; Scenario Panel Discussion; Module 8: Post-Emergency Response Operations; and Review of Incident Case Studies.

### Presentation Team includes:

Greg Noll

RRs

Local Fire Dept

NY HS

EPA Dollhopf/Renninger

EPA Region 2

d 2016

# TRANSPORTATION RAIL INCIDENTS PREPAREDNESS AND RESPONSE TRAINING

## DECEMBER 14, 2016

Eli Lilly  
MQ Learning Center  
2301 Executive Drive  
Indianapolis, IN 46241

The Transportation Rail Incidents Preparedness and Response (TRIPR) Flammable Liquid Unit Trains event was developed to provide critical information on best practices related to rail incidents involving hazard class 3 flammable liquids, such as crude oil and ethanol. A key component of this initiative is to learn from past experiences and to leverage the expertise of public safety agencies, rail carriers, and industry subject matter experts in order to prepare first responders to safely manage incidents involving flammable liquids unit trains. More information is available here: <http://dothazmat.vividlms.com/tools.asp>

To attend this training event, please RSVP using this link [www.SignUpGenius.com/go/30E0545A5A.C22A0F58-transportation2](http://www.SignUpGenius.com/go/30E0545A5A.C22A0F58-transportation2) by **December 1, 2016**.

Additional logistics information will be provided in advance of the training date.

FREE TRAINING  
FOR FIRE  
DEPARTMENT,  
LEPC, EMA, AND  
FIRST  
RESPONDERS

8 HOUR TRAINING  
FOR FIRST  
RESPONDERS IN  
COMMUNITIES  
WITH RAIL  
TRAFFIC

SECOND OFFERING  
OF NATIONALLY  
DEVELOPED  
TRAINING IN  
INDIANA

TRAINING  
DEVELOPED AND  
PROVIDED BY:



### Presentation Team includes:

DOT Mark Razny  
RR TBD

RR TBD  
Local Fire Dept  
IDEM

EPA Dollhopf/Renninger  
Julian/Lam/Sewell

and 2017

# TRANSPORTATION RAIL INCIDENTS PREPAREDNESS AND RESPONSE TRAINING

## JANUARY 25, 2017

WAYNE COUNTY  
COMMUNITY COLLEGE DISTRICT  
DOWNRIVER CAMPUS, RAY MIX ROOM  
21000 NORTHLINE ROAD  
TAYLOR, MI 48180

The Transportation Rail Incidents Preparedness and Response (TRIPR), Flammable Liquid Unit Trains event was developed to provide critical information on best practices related to rail incidents involving hazard class 3 flammable liquids, such as crude oil and ethanol. A key component of this initiative is to learn from past experiences and to leverage the expertise of public safety agencies, rail carriers, and industry subject matter experts in order to prepare first responders to safely manage incidents involving flammable liquids unit trains. More information is available at: <http://dothazmat.vividfilms.com/tools.asp>

To attend this training event, please RSVP using this link <http://www.signupgenius.com/go/30e0545a5ac22a0f58-transportation1> by January 13, 2017.

Logistics and additional registration information will be provided in advance of the training date.

FREE TRAINING  
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FIRST OFFERING  
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8 HOUR TRAINING  
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COMMUNITIES  
WITH RAIL  
TRAFFIC

TRAINING  
DEVELOPED AND  
PROVIDED BY:



## Presentation Team includes

DOT Mark Razny

NS John Lerner

CSX Ryan Prewitt

CN Greg Palmer

Detroit Fire Dept

MDEQ

EPA Dollhopf/Julian/Renn

Edwards/Kimble



nd 2017

# TRANSPORTATION RAIL INCIDENTS PREPAREDNESS AND RESPONSE TRAINING

**February 15, 2017**

**Stevens Point, WI**

The Transportation Rail Incidents Preparedness and Response (TRIPR), Flammable Liquid Unit Trains event was developed to provide critical information on best practices related to rail incidents involving hazard class 3 flammable liquids, such as crude oil and ethanol. A key component of this initiative is to learn from past experiences and to leverage the expertise of public safety agencies, rail carriers, and industry subject matter experts in order to prepare first responders to safely manage incidents involving flammable liquids unit trains. More information is available at: <http://dethazmat.vividfilms.com/tools.asp>

To attend this training event, please RSVP using this link <http://www.signupgenius.com/go/30e0545a5ac22a0f58-transportation1> by January 13, 2017.

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COMMUNITIES  
WITH RAIL  
TRAFFIC**

**TRAINING  
DEVELOPED AND  
PROVIDED BY:**



## Presentation Team includes

**DOT Mark Razny**

**RR TBD**

**FD La Crosse, Madison, E**

**WI DNR**

**EPA Dollhopf/Renninger,**

**Halbur/Ruesch**

st for Training

# TRANSPORTATION RAIL INCIDENTS PREPAREDNESS AND RESPONSE TRAINING

**TBD 2017  
EPA Region 5 & 7  
St. Louis, MO**

The Transportation Rail Incidents Preparedness and Response (TRIPR), Flammable Liquid Unit Trains event was developed to provide critical information on best practices related to rail incidents involving hazard class 3 flammable liquids, such as crude oil and ethanol. A key component of this initiative is to learn from past experiences and to leverage the expertise of public safety agencies, rail carriers, and industry subject matter experts in order to prepare first responders to safely manage incidents involving flammable liquids unit trains. More information is available at: <http://dethazmat.vividfilms.com/tools.asp>

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FREE TRAINING  
FOR FIRE  
DEPARTMENT,  
LEPC, EMA AND  
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FIRST OFFERING  
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8 HOUR TRAINING  
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TRAINING  
DEVELOPED AND  
PROVIDED BY:



Presentation Team include

DOT TBD

RR TBD

RR TBD

EPA Region 7 Smith

EPA Dollhopf/Renninger,

st for Training

# TRANSPORTATION RAIL INCIDENTS PREPAREDNESS AND RESPONSE TRAINING

**TBD 2017  
EPA Region 5 & 7  
Quad Cities  
(Iowa/IL)**

provide critical information on best practices related to rail incidents involving hazard class 3 flammable liquids, such as crude oil and ethanol. A key component of this initiative is to learn from past experiences and to leverage the expertise of public safety agencies, rail carriers, and industry subject matter experts in order to prepare first responders to safely manage incidents involving flammable liquids unit trains. More information is available at: <http://dethazmat.vividlms.com/tools.asp>

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8 HOUR TRAINING  
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TRAINING  
DEVELOPED AND  
PROVIDED BY:



Presentation Team include

DOT TBD

RR TBD

RR TBD

EPA Region 6

EPA Dollhopf/Renninger



st for Training

# TRANSPORTATION RAIL INCIDENTS PREPAREDNESS AND RESPONSE TRAINING

**TBD 2017  
EPA Region 5  
Springfield, IL**

The Transportation Rail Incidents Preparedness and Response (TRIPR), Flammable Liquid Unit Trains event was developed to provide critical information on best practices related to rail incidents involving hazard class 3 flammable liquids, such as crude oil and ethanol. A key component of this initiative is to learn from past experiences and to leverage the expertise of public safety agencies, rail carriers, and industry subject matter experts in order to prepare first responders to safely manage incidents involving flammable liquids unit trains. More information is available at: <http://dethazmat.vividfilms.com/tools.asp>

To attend this training event, please RSVP using this link <http://www.signupgenius.com/go/30e0545a5ac22a0f58-transportation1> by January 13, 2017.

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FREE TRAINING  
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FIRST OFFERING  
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DEVELOPED AND  
PROVIDED BY:



Presentation Team include

DOT TBD

RR TBD

RR TBD

EPA Dollhopf/Renninger/

# TRANSPORTATION RAIL INCIDENTS PREPAREDNESS AND RESPONSE TRAINING

**TBD 2017  
EPA Region 6  
Dallas, TX**

The Transportation Rail Incidents Preparedness and Response (TRIPR), Flammable Liquid Unit Trains event was developed to provide critical information on best practices related to rail incidents involving hazard class 3 flammable liquids, such as crude oil and ethanol. A key component of this initiative is to learn from past experiences and to leverage the expertise of public safety agencies, rail carriers, and industry subject matter experts in order to prepare first responders to safely manage incidents involving flammable liquids unit trains. More information is available at: <http://dethazmat.vividfilms.com/tools.asp>

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PROVIDED BY:



Presentation Team include

DOT TBD

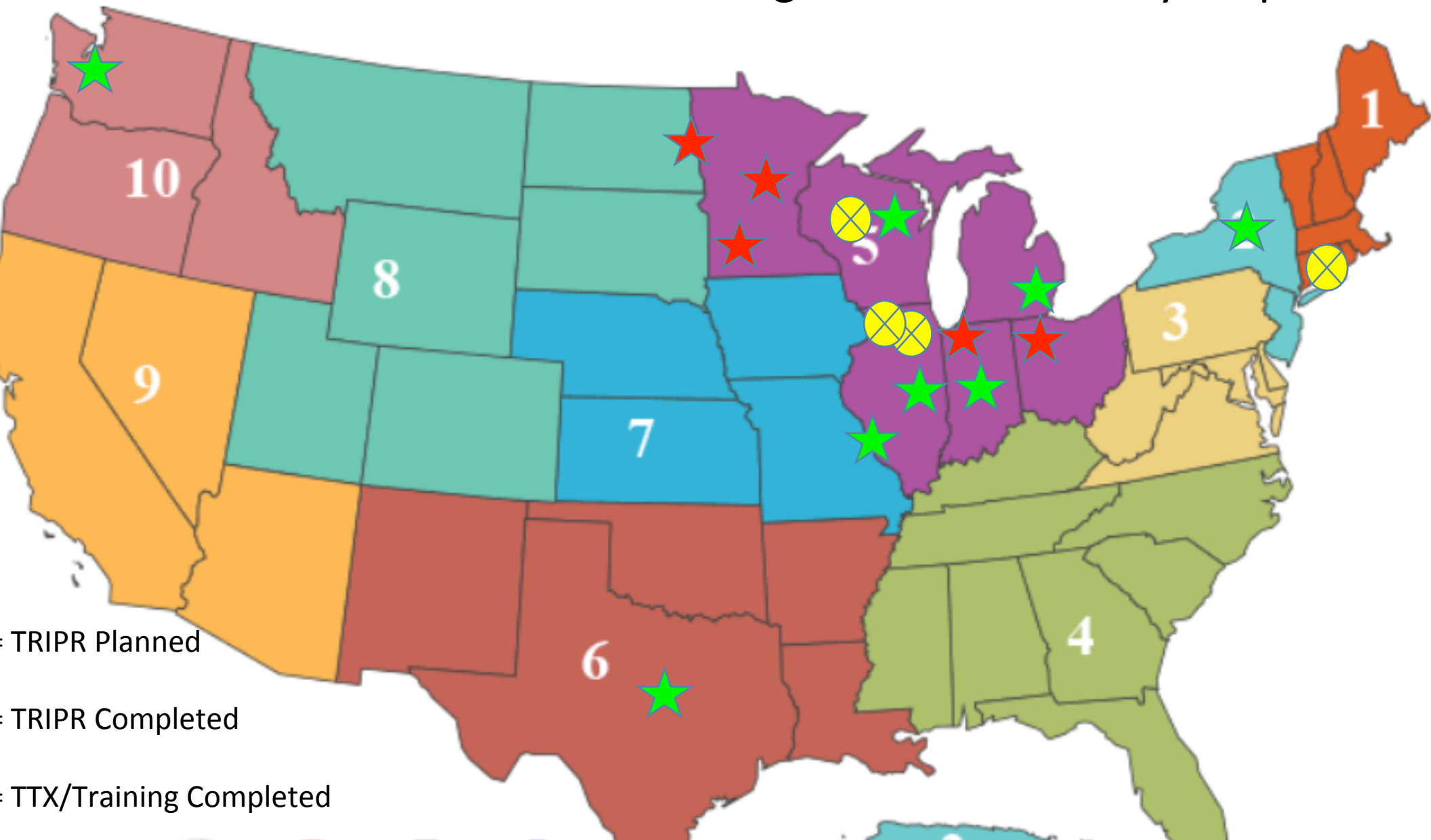
RR TBD

RR TBD

EPA Region 6

EPA Dollhopf/Renninger

## 2016-2017 TRIPR Training and TTX Summary Map







# Emerging Oil Transportation Update

November 2016