



Emerging Issues in Rail Transportation

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OVERVIEW

- I. Background on HAZMAT Rail Traffic
- II. Pre/Post Lac-Mégantic Regulatory Developments
- III. Stakeholder Responses: Risks/Liabilities



I. Background on HAZMAT Rail Traffic

Class I railroads originate approximately 30 million carloads annually:

Intermodal: 12.3 million trailers and containers



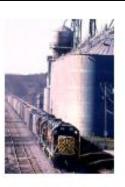
Food products: 1.6 million carloads



Lumber, paper & other forest products: 1.0 million carloads



Farm products: 1.6 million carloads



Plastics, fertilizers and other chemicals: 2.2 million carloads

Sand, stone & gravel: 1.3 million carloads



Transportation equipment:

1.4 million carloads



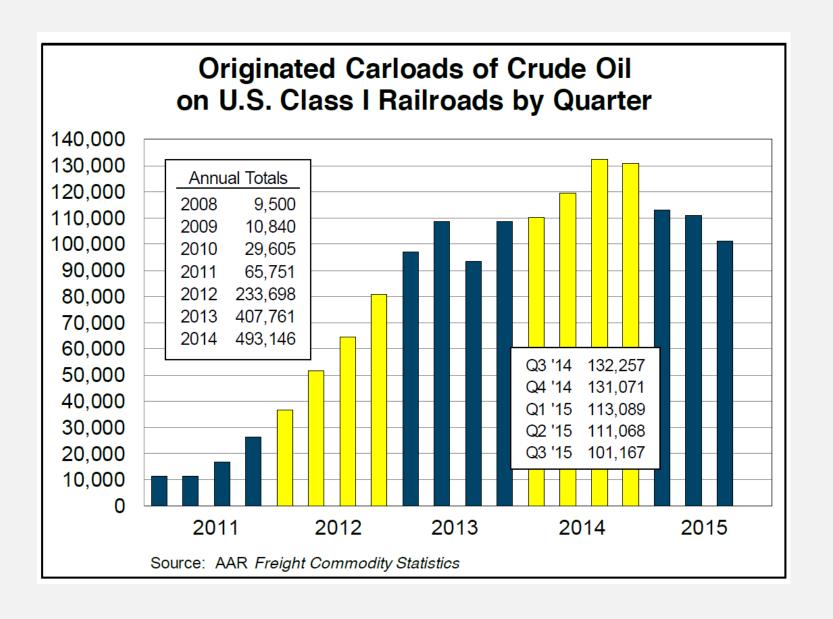
Coal: 6.3 million carloads

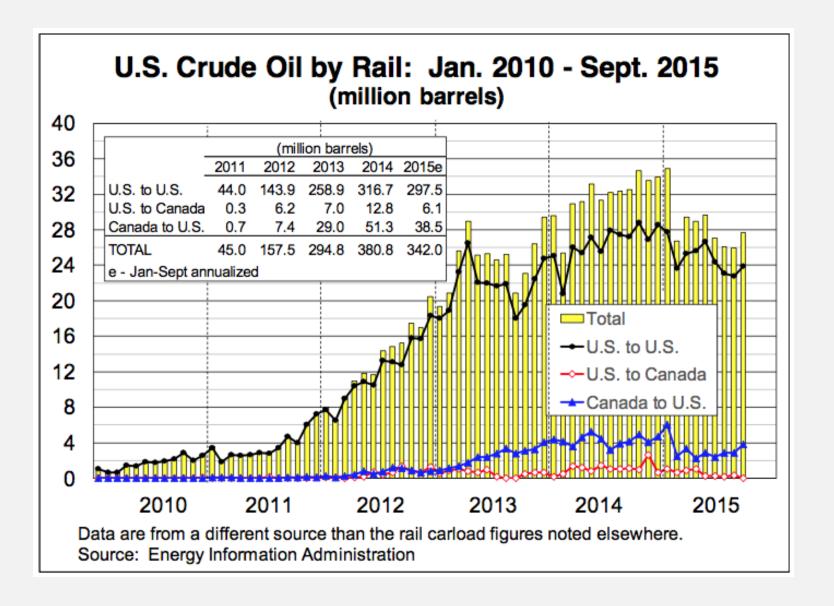
And much more!

Figures are 2012.

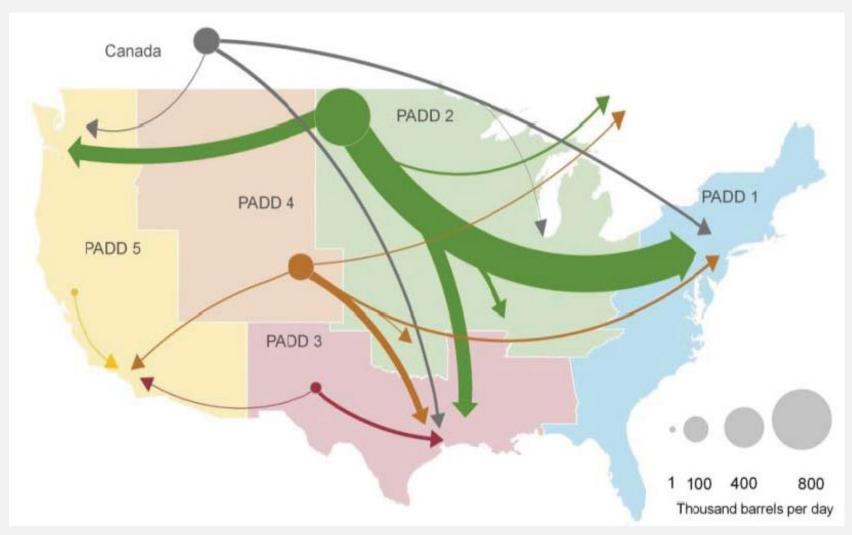
- U.S. railroads haul approximately 2 million shipments of HAZMAT materials annually
- Most of these shipments are made in tank cars supplied by the customer
- 100,000 carloads of this HAZMAT traffic are TIH materials
- HAZMAT shipments by rail have risen appreciably in recent years, driven by non-TIH traffic . . .







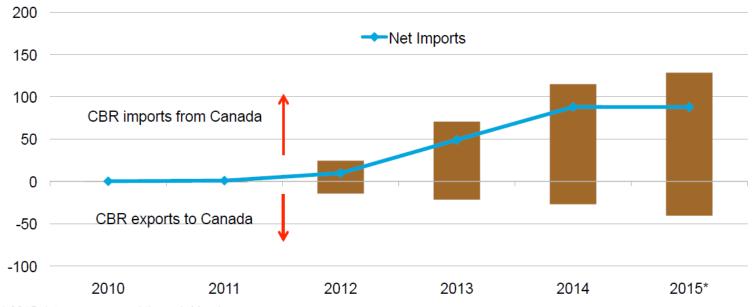
Crude-By-Rail flows, 2014



Source: EIA, (PADD= Petroleum Administration for Defense Districts)

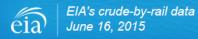
Canada-U.S CBR trade is still modest in both directions

Crude-by rail movements between the U.S. and Canada thousand barrels per day



* 2015 data are averaged through March

Source: EIA estimates based on data from the Surface Transportation Board and other information



II. Pre/Post Lac-Mégantic Regulatory Developments

A. U.S. Federal Government Response (Pre Lac-Mégantic) <u>Traffic Control Systems</u>

PTC – Integrated technologies capable of automatically controlling train speeds and movements

- Implemented by Rail Safety Improvement Act of 2008; FRA issues final rules in 2010
- Designed to supplement existing train control systems
- Required to be installed on Class I RR main lines with
 - (i) > 5 million gross tons of TIH shipments; or
 - (ii) any railroad's main lines over which regularly scheduled intercity passenger or commuter operations are operated
- Approx. 62,000 route miles and 22,000 locomotives to be equipped with interoperable PTC technology
- Implementation due date: end of 2018 (Congressional extension)
- Implementation costs estimated by Railroads to exceed \$8 billion



OCT 29, 2015

Congress Extends PTC deadline by at least three years

Congress extends the PTC deadline by at least three years to December 31, 2018, with the opportunity for an additional two years if certain conditions are met.

DEC 31, 2020

Potential deadline if railroads meet certain conditions

Congress has allowed railroads to apply for up to a two-year extension to achieve full PTC implementation if certain criteria are met. The railroad must have all spectrum acquired and hardware installation completed by the end of 2018 for an alternative schedule to be considered.

DEC 31, 2015

Original PTC Implementation Deadline



OCT 16, 2008

Railroad Safety Improvement Act of 2008 Enacted: Sets December 31, 2015 Deadline

Several collisions, including a 2008 collision between a Metrolink passenger train and a Union Pacific freight train, led Congress to require Positive Train Control (PTC) be installed on a majority of the US Railroad network by December 31, 2015.



JAN 26, 2016

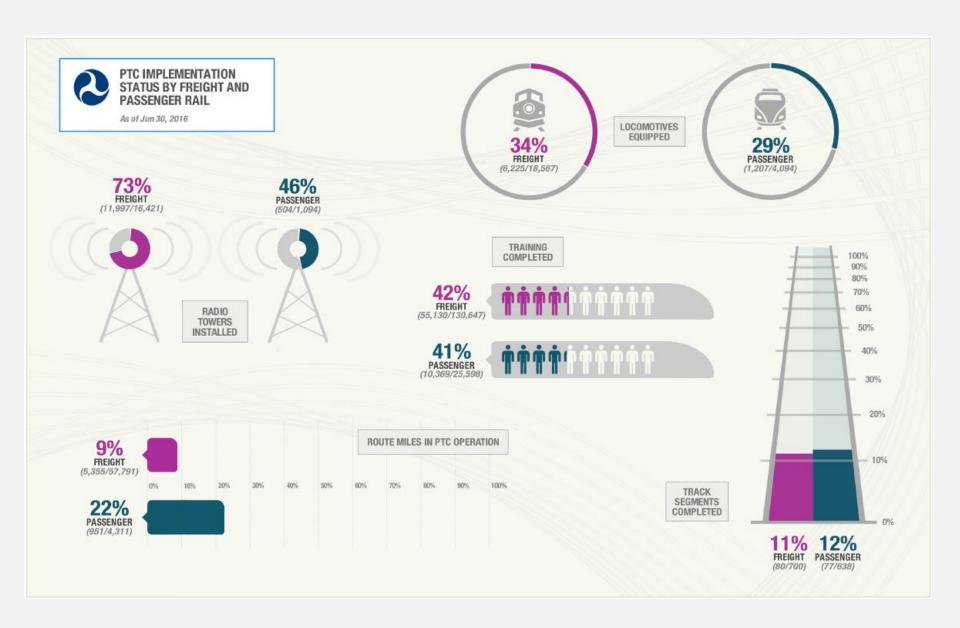
Revised Implementation Plan Deadline

FRA currently uses the schedules and key installation milestones reported in Railroads' revised PTCIP as the basis for tracking and enforcing PTC implementation progress.



Extended PTC Implementation Deadline

Based on revised PTC Implementation Plans submitted to FRA in January 2016, a majority of Railroads (81%) are projected to have PTC installed by the end of 2018. The remaining Railroads are projected to reach full implementation by December 31, 2020.



B. U.S. Federal Government Response (Post Lac-Mégantic)

Equipment/Operations:

FRA/PHMSA issue final tank car rules in May 2015, codified/revised by Congress in FAST Act

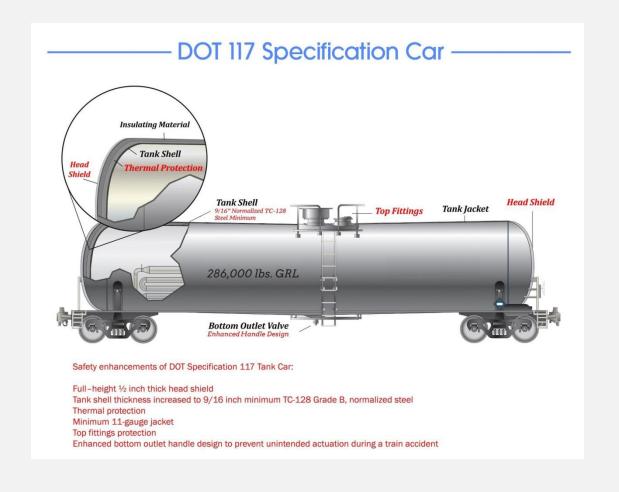
- New Tank Cars are required to meet enhanced DOT Specification 117 design/performance criteria for use in a High Hazard Flammable Train ("HHFT")
- Existing tank cars must be retrofitted/retired in accordance with the DOTprescribed standards for use in a HHFT
 - New brake requirements (ECP brakes); revised as part of FAST Act, now subject to a cost-benefit requirement
- Benefits: Improved puncture resistance; increased thermal survivability; enhanced protection of top fittings
- Retrofit Costs (PHMSA Estimated): \$1B+
- Retrofits must be completed based on a prescriptive retrofit schedule focused on two risk factors, the packing group/commodity and car type
- Reduced Operating Speeds: 50-mph for HHFTs
- Rail Routing Risk Assessment Plans/Reporting for HHFTs (train routings based on safety/security factors)

Crude & Ethanol Tank Cars:

Table 6: Estimated Quantity of DOT-111 Tank Cars in Need of Retrofit			
Tank Car Type / Service	Fleet Size		
Non-Jacketed DOT-111 tank cars in PG I service	11,637		
Non-Jacketed DOT-111 tank cars in PG II service	18,493		
Jacketed DOT-111 tank cars in PG I and PG II service	2,356		
Non-Jacketed CPC-1232 tank cars in PG I and PG II service	15,895		
Jacketed CPC-1232 tank cars in PG I, PG II service, and all remaining tank cars carrying PG III materials in an HHFT (pressure relief valve and valve handles).	24,933		
Total	73,314		

Other Flammable Liquid Tank Cars:

Table 8: PHMSA Projected Flammable Liquids Tank Car Fleet Used for FAST Act Cost Determination			
Sub-Fleet	Other Flammable Liquids		
Non-jacketed DOT-111s	16,577		
Jacketed DOT-111s	6,294		
Non-jacketed CPC-1232s	1,969		
Jacketed CPC-1232s	1,321		
Total	26,161		



Compare (1) Original Rulemaking/Canada Deadlines

Timeline for the Retrofit of Affected Tank Cars for Use in North American HHFTs				
Tank Car Type / Service	US Retrofit Deadline*	Tank Car Type / Service	TC Retrofit	
Non Jacketed DOT-111 tank cars in PG I service	(January 1, 2017) ² January 1, 2018	Non Jacketed DOT-111 tank cars in Crude Oil service	May 1, 2017	
Jacketed DOT-111 tank cars in PG I	March 1, 2018	Jacketed DOT-111 tank cars in Crude Oil service	March 1, 2018	
Non Jacketed CPC-1232 tank cars in PG I service	April 1, 2020	Non Jacketed CPC-1232 tank cars in Crude Oil service	April 1, 2020	
Non Jacketed DOT-111 tank cars in PG II service	May 1, 2023	Non Jacketed DOT-111 tank cars in Ethanol service	May 1, 2023	
Jacketed DOT-111 tank cars in PG II service	May 1, 2023	Jacketed DOT-111 tank cars in Ethanol service	May 1, 2023	
Non Jacketed CPC-1232 tank cars in PG II service	July 1, 2023	Non Jacketed CPC-1232 tank cars in Ethanol service	July 1, 2023	
Jacketed CPC-1232 tank cars in PG I and PG II service and all remaining tank cars carrying PG III materials in an HHFT (pressure relief valve and valve handles).	May 1, 2025	Jacketed CPC-1232 tank cars in in Crude and Ethanol service and all remaining tank cars carrying PG III materials in an HHFT (pressure relief valve and valve handles).	May 1, 2025	

Note: On July 25, 2016, Transport Canada directed the accelerated phase out of all DOT-111s in crude oil service to **Nov. 1, 2016** (Protective Direction 38)

with . . . (2) Fast Act Deadlines

Table 1: Comparison of HM-251 Tank Car Phase-out Schedule vs. FAST Act Phase-out Schedule (Tank Cars in Class 3 Flammable Liquid Service)				
Tank Car Type / Service	HM-251 Phase-out Deadline ⁴	FAST Act Phase-out Deadline ⁵		
Non-jacketed DOT-111s	PG I – January 1, 2018 ⁶ PG II – May 1, 2023 PG III – May 1, 2025	Crude ⁷ – January 1, 2018 Ethanol – May 1, 2023 Flammable PG I – May 1, 2025** Flammable PG II/III – May 1, 2029*		
Jacketed DOT-111s	PG I – March 1, 2018 PG II – May 1, 2023 PG III – May 1, 2025	Crude – March 1, 2018 Ethanol – May 1, 2023 Flammable PG I – May 1, 2025** Flammable PG II/III – May 1, 2029*		
Non-jacketed CPC-1232s	PG I – April 1, 2020 PG II – July 1, 2023 PG III – May 1, 2025	Crude – April 1, 2020 Ethanol – July 1, 2023 Flammable PG I – May 1, 2025** Flammable PG II/III – May 1, 2029*		
Jacketed CPC-1232s	May 1, 2025	Crude oil – May 1, 2025 Ethanol – May 1, 2025 Flammable PG I – May 1, 2025** Flammable PG II/III – May 1, 2029*		

^{**}Extendable up to May 1, 2027, if the Secretary finds that insufficient retrofitting shop capacity will prevent the phase-out of tank cars not meeting the DOT-117, DOT-117P, or DOT-117R by the deadline.

² The January 1, 2017 date would trigger a reporting requirement, and shippers would have to report to DOT the number of tank cars that they own or lease that have been retrofitted, and the number that have not yet been retrofitted.

^{*}Extendable up to May 1, 2031, if the Secretary finds that insufficient retrofitting shop capacity will prevent the phase-out of tank cars not meeting the DOT-117, DOT-117P, or DOT-117R by the deadline.

III. Stakeholder Responses

A. Carrier Initiatives; Several Notable STB proceedings:

- Railroad Common Carrier Obligation to Move HAZMATs (FD 35527, E. Strohmeyer and J. Riffin Acquisition and Operation Application Valstir Industrial Track in Middlesex and Union Counties, NJ)
- Railroad Indemnity/Liability Tariffs (FD 35504, *UP Petition for Declaratory Order*; NOR 42145, *Agrium Inc. v. Canadian Pacific Ry.*)
- <u>Tariffs Addressing Operations</u> (*e.g.*, use of dedicated trains, special notification requirements, reduced train speeds) (NOR 42129, *American Chemistry Council et al. v. Alabama Gulf Coast Ry.*)
- Railroad "Short Haul" Interchange/Routing Cases (NOR 42131, Canexus Chemicals Canada L.P. v. BNSF Ry.)
- Railroad Surcharges for Use of DOT-111s in Crude Oil Service (NOR 42146, Am. Fuel & Petrochemical Mfrs. V. BNSF Ry.)
- Many interested stakeholders and their trade associations involved
- Railroads: TIH shipments constitute a "bet the business" proposition
- Hazmat shippers: initiatives constitute unreasonable practices/ improper attempts to undermine the common carrier obligation

B. State/Local Initiatives -- Federal Preemption?

U.S. NEWS Cities Grapple With Oil-Train Safety Recent Derailments Raise Concerns Over North Dakota Crude Traveling by Rail Jan. 14, 2014 11:02 p.m. ET



Mayors from Wisconsin, Missouri and Illinois also joined Emanuel in supporting the proposals. Revenue generated from any fee, they say, could be dedicated to improving the country's aging infrastructure.

A train carrying crude oil collided with another train and caught fire on Dec. 30 near Casselton, N.D. The

Every day, a train more than a mile long travels alongside a highway in Albany, N.Y., a half-mile from the state capitol building and even closer to houses. Its cargo is crude oil from North Dakota, which federal regulators and railroads fear is more explosive than other oils.

In the past year, Albany has become an unlikely hub for the U.S. oil business, taking in and sending them out by ship down the Hudson River to refineries Nov.

Pennsylvania Gov. Tom Corbett, though, has cautioned against any "knee-jerk reactions" that could hinder

the additional business refineries in Philadelphia have seen as of late.

any large cities because of as pipelines on rails, tanker cars full of oil ., St. Louis, Kansas City and Houston, among others.

C. Train Accidents: Personal Injury Liability

- A number of federal laws apply to common carrier railroads
 - <u>First</u>, railroad transportation is subject to fairly comprehensive federal statutes and rules (*e.g.* FRSA, HMTA) governing safety and transportation.
 - <u>Second</u>, the issue of liability for injury to persons or property for railroad accidents occurring en route is not subject to federal law; instead, such liability normally is determined pursuant to common law tort principles
- Generally, personal injury cases have been based on state common law legal theories of strict liability and negligence (or for railway workers, FELA)
- Claims of this nature have been brought against railroads, shippers, receivers, and product distributors/manufacturers; railcar owners and lessors; railcar manufacturers; railcar maintenance businesses virtually anyone that is in any way connected with the involved shipment, property, or facilities
- The Supremacy Clause/Express Preemption provisions of FRSA may preempt state tort law actions; in the event that preemption is found to apply to individual claims, then the claims are dismissed

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Thank You

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