

TANK TANK CAR CAR CONTENT CO





RULEMAKING



PHMSA's Decision Making Process

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2013

ADVANCE NOTICE OF PROPOSED RULEMAKING (ANPRM)

Issued:	Sept. 2013
Comment Period:	Closed Dec. 2013

2014

NOTICE OF PROPOSED RULEMAKING (NPRM)

Issued:	July 2014
Comment Period:	Closed Sept. 2014

(Over 180,000 individual comments)

2015

FINAL RULE

Published:	May 8, 2015
(Effecti	ve July 7, 2015)
Administrative Appeal, Litigation or Legislation	Ongoing
(Six administrative appeals, five individual court petitions will be consolidatedinto one case and seven separate bills in Congress)	

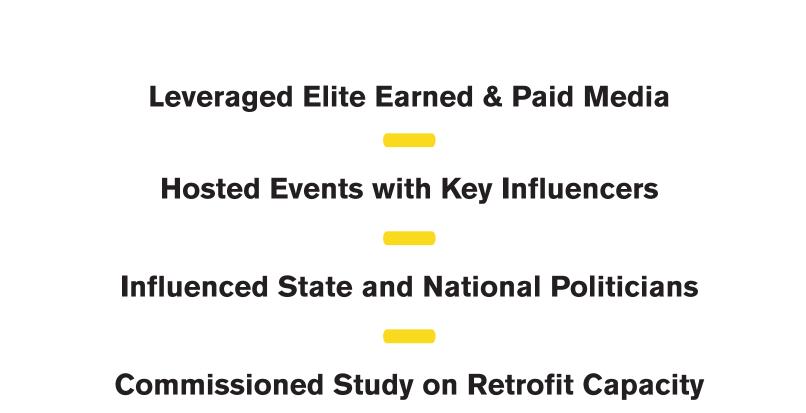
Source: GBX Internal



GREENBRIER HELPED SHAPE DOT/TC RULEMAKING



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Source: GBX Internal



LEVERAGED EARNED MEDIA



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FEBRUARY 20, 2015

"The West Virginia explosion should be a reminder that the Obama administration, the railroad industry and the oil producers all need to find answers, as quickly as possible, to an increasingly serious problem."

The New York Times

MAY 24, 2014

"On behalf of the public and the environment, government regulators must insist that top-notch transport and equipment be used in the process. They are not close to achieving that goal, and consequences could be disastrous."



FEBRUARY 19, 2015

"Accidents have become too frequent and are potentially too catastrophic. It's unfortunate that the safety of rail freight wasn't improved earlier, but now that the business is booming, the country needs to catch up."

The Washington Post

JANUARY 31, 2015

"The DOT apparently is weighing the need for safer cars against a more comprehensive approach that includes train speeds, rail maintenance, etc. While those things are important, the one specific thing that will make our communities safer are substantially better designed and built tank cars."



modbee.com



LEVERAGED PAID MEDIA



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Full-page Ad in WSJ



THE U.S. GOVERNMENT REQUIRES RAILROADS TO HAUL HAZARDOUS MATERIALS IN TANK CARS ITS OWN SAFETY EXPERTS SAY ARE UNSAFE THAT'S WRONG - WE NEED SAFER TANK CARS NOW





Greenbrier (NYSE-GBX) en railcars, leases railcars, and pr



Robust Paid Media Campaign in Key Markets











HOSTED EVENTS WITH KEY INFLUENCERS



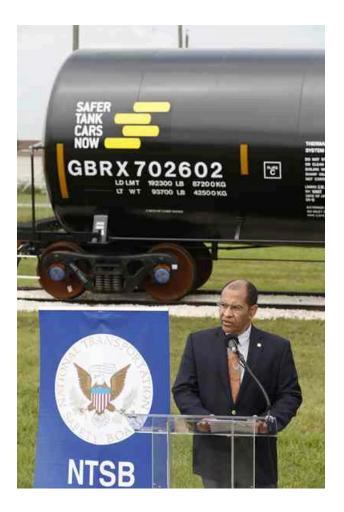
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APRIL 15-16, 2015

Houston, TX

Greenbrier hosted a tour of GBW's Hockley facility and Watco's Greens Port facility with a delegation from the NTSB, including Chairman Christopher Hart. National and local media, in addition to trade publications, attended to cover the event. Media coverage of Hart's visit showcased Greenbrier's Tank Car of the Future and GBW's ability to retrofit tank cars in a timely and cost effective manner.







INFLUENCED STATE AND NATIONAL POLITICIANS



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FEBRUARY 3, 2015

Greg Saxton, Sr., Vice President and Chief Engineer at the Greenbrier Companies addresses Congress

MARCH 12, 2015

Roundtable with Acting PHMSA Administrator Tim Butters and Rep. Peter DeFazio (D-OR) — Ranking Member, House T&I Committee

APRIL 29, 2015

Op-ed by Former NTSB Chairman, Jim Hall appears on thehill.com



GREENBRIER'S SPRING OFFENSIVE PRODUCES RESULTS



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Tank Car Type / Service	Retrofit timeline in the original final rule submitted to OMB/ OIRA ¹ in February 2015	Retrofit timeline in the final rule published in the Federal Register on May 8, 2015	
Jacketed DOT-111 tank cars in PG I service	November 30, 2020	March 1, 2018	7,000 Tank cars retrofit or replaced two years earlier
Non Jacketed CPC-1232 tank cars in PG I service	June 30, 2023	April 1, 2020	22,000 Tank cars retrofit or replaced three years earlier

1 Assumes an April 1, 2015 publication date. Actual dates will vary depending on publication date.



GREENBRIER VISITS WITH DEPARTMENT OF TRANSPORTATION OFFICALS



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Meeting with Secretary Foxx



MAY 21, 2015

Visit with Federal Railroad Administrator



COMMISSIONED STUDY ON RETROFIT CAPACITY



- Aggressive retrofit timelines for crude and ethanol are achievable. Using the assumptions in the RSI analysis, the retrofit process for unjacketed cars can be completed in the first 6 years, and the entire fleet in 6.7 years according to Cambridge Systematics, Inc.
- Per Greenbrier's recommendation, final rule prioritizes unjacketed cars, starting with DOT-111s, followed by CPC-1232s to remove risk as quickly as possible from tank cars in high mileage flammable liquids service
- The combination of new build, retrofit capacity, and standard retirement rates do not support claims of impending shortfalls



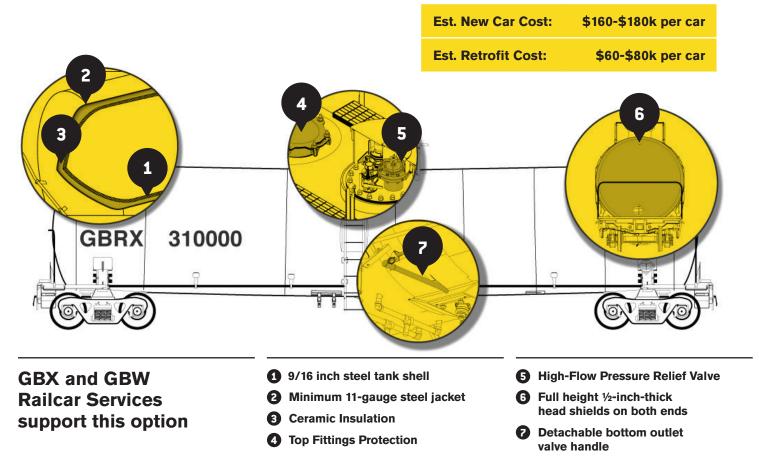
RULING



Option 2 = DOT-117 = GBX TCOF

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All new HHFT cars built after **October 1, 2015** are required to meet **DOT-117 specification** (below), while older cars are required to meet **DOT-117R (Retrofit) specification** (same as DOT-117 except but 7/16" tank shell permitted) on a prescribed 2-10 year schedule.





OTHER RULE DETAILS

Speeds, Commodity Classification and Rail Operations



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SPEEDS

50 MPH and 40 MPH in Certain Urban Areas

OPERATIONS

Track Integrity, Securement, Engineer and Conductor Certification, Crew Size

CLASSIFICATION

Unrefined Petroleum-Based Products Sampling and Documentation

ROUTING

Rail Routing Risk Assessment

NOTIFICATION

Rail Routing Information Access

Source: DOT PHMSA



KEY TANK CAR DIFFERENCES



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TANK TYPE	PRE-PETITION	PETITION	FINAL RULE
Code	DOT-111	CPC-1232	DOT-117
Effective Date (new cars)	Nov-71	Oct-11	May-15
Max Gross Rail Load	263,000	286,000	286,000
Normalized Steel Heads & Shells	No	Yes	Yes
Half-Inch Head Shields	No	Half or Full Height	Full Height
Head & Shell Thickness	7/16 inch	7/16 to 1/2 inch*	9/16 inch*
Top Fittings Protection	No	Yes	Yes
Half-Inch Ceramic Insulation	No	No	Yes
Steel Jackets	Some	Some	Yes
High Flow Pressure Relief Valve	No	Some	Yes
Improved BOV Handle	No	No	Yes
ECP Brakes	No	No	Yes

*Depends on jacketing

*7/16 inch for retrofitted — DOT-117R

Pre-petition cars reflect the current government tank car standards (initially adopted in 1971).

Petition cars refer to the P-1577 standards that were adopted by AAR circular CPC-1232 for all cars ordered after October 1, 2011 (also known as "Good Faith" cars). **Post-petition cars** reflect the new government standards released in May of 2015.



N.A. FLAMMABLE LIQUIDS FLEET



(Estimated as of end of 2015)

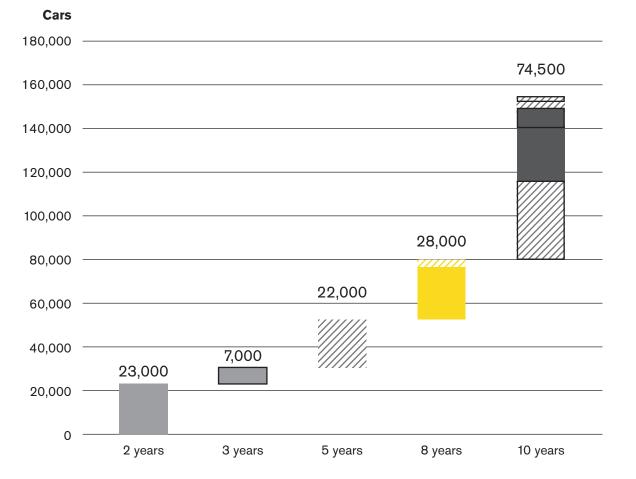
	CRUDE	ETHANOL	OTHER FLAMMABLE	TOTAL
DOT-111 Non-Jacketed	23,000	27,000	25,000	75,000
DOT-111 Jacketed	7,000	0	9,500	16,500
DOT-111 Total	30,000	27,000	34,000	91,500
CPC-1232 Non-Jacketed	22,000	1,000	3,000	25,500
CPC-1232 Jacketed	35,000	0	2,000	37,500
CPC-1232 Total	57,500	1,000	5,000	63,000
TOTAL	87,500	28,000	39,000	154,500



ESTIMATED RETROFIT / PHASE-OUT TIMELINE



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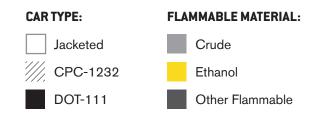


GBX ANNUAL MFG. CAPACITY:

7,000-8,000 tank cars

GBW ANNUAL RETROFIT CAPACITY 2,000–3,000 tank cars

SERVICE	IMPACTED CARS
Crude	87,500
Ethanol	28,000
Other Flammable	39,000
Total	154,500



*Fleet counts per Brattle Group end of 2015 estimates. Assumes all cars part of HHFT.

Source: Brattle Group 2014, DOT PHMSA



GBW SHOPS READY FOR RETROFITS



