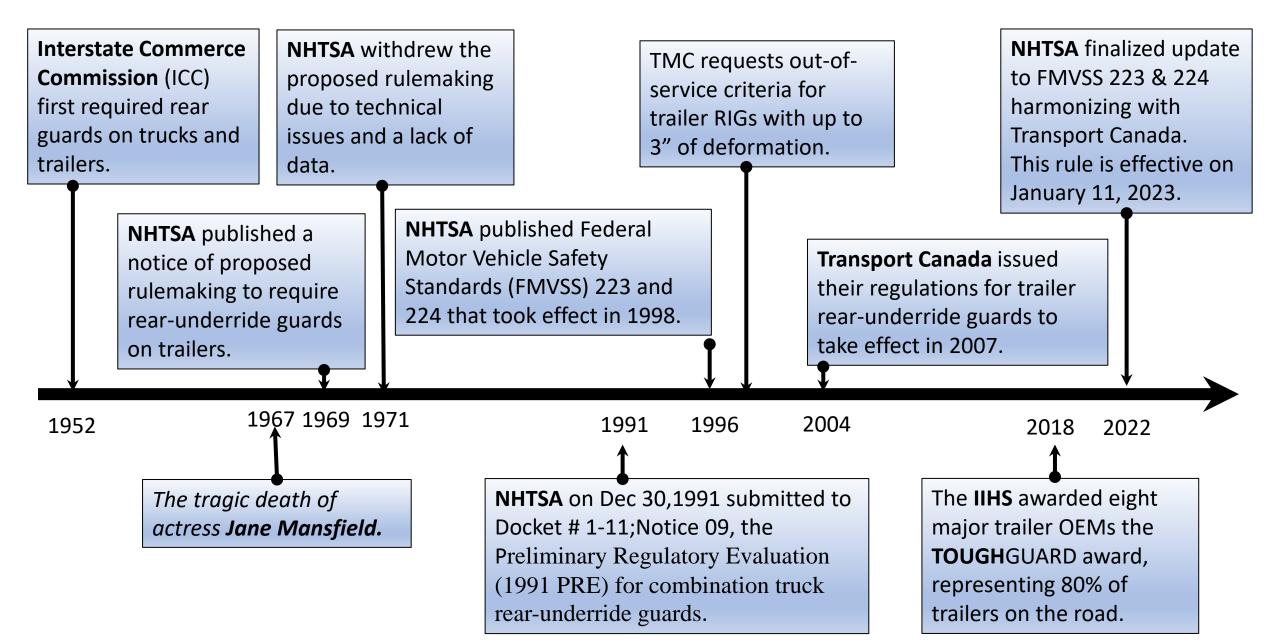
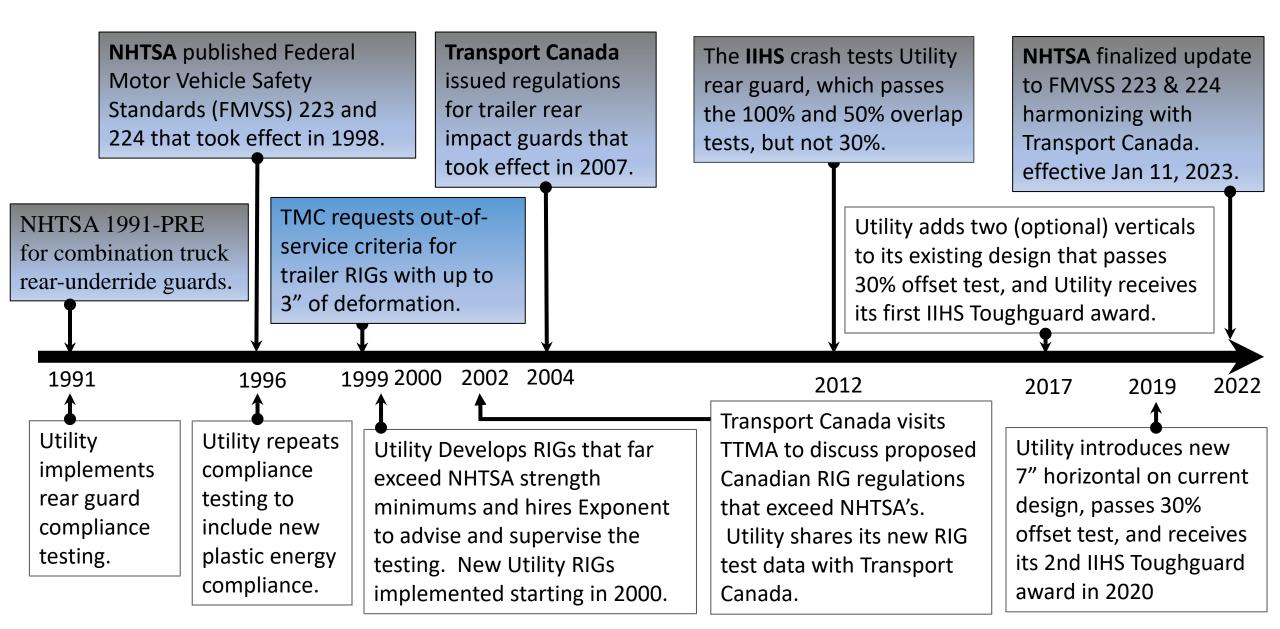
A History of Trailer Rear-Impact Guard (RIG) From Utility's Perspective

 1952
 1967
 1969
 1971
 1991
 1996
 2004
 2018
 2022

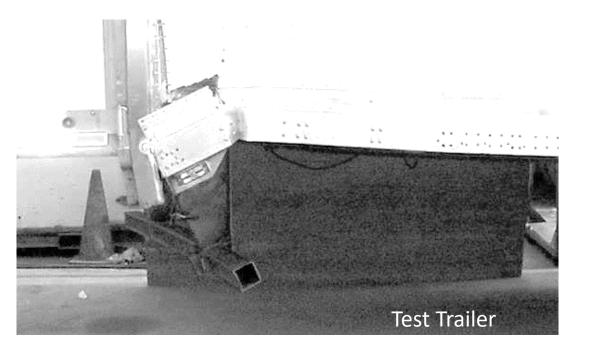
Rear-Impact Guard (RIG) Industry Milestones



Utility's Responses To The Industry Milestones







Utility's RIG, implemented on dry van models in 2000, could pass multiple, consecutive NHTSA tests without loosing the RIG structural integrity.

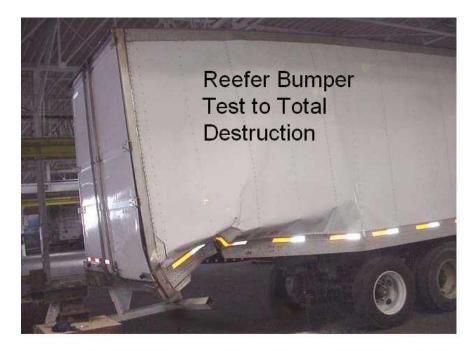


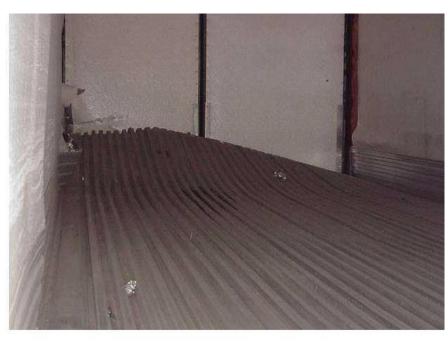




Utility dry van RIG extreme-mode-of-failure test conducted on a test trailer with Exponent.



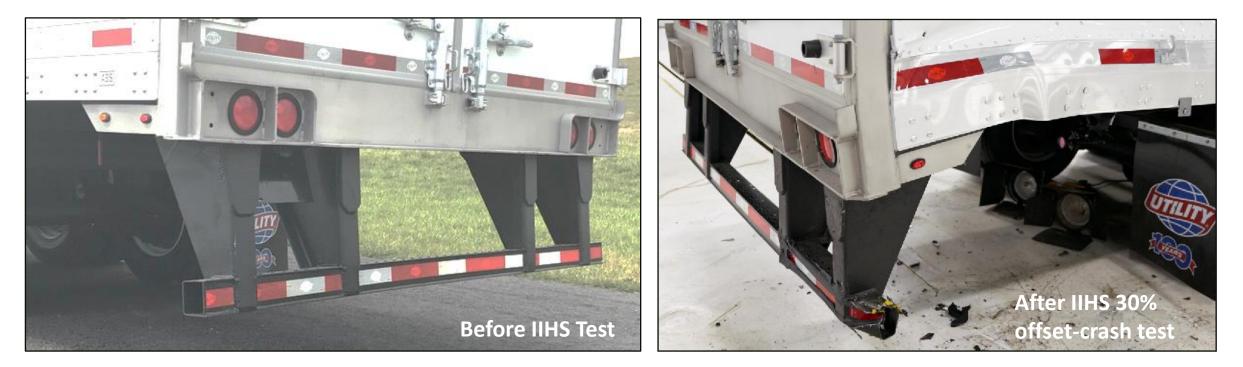






Utility refrigerated van RIG extrememode-of-failure test conducted on a test trailer with Exponent.





The Utility dry van trailer with optional 3rd and 4th verticals added to the existing standard Utility RIG.

This trailer passed the IIHS 30% offset crash test in 2017.



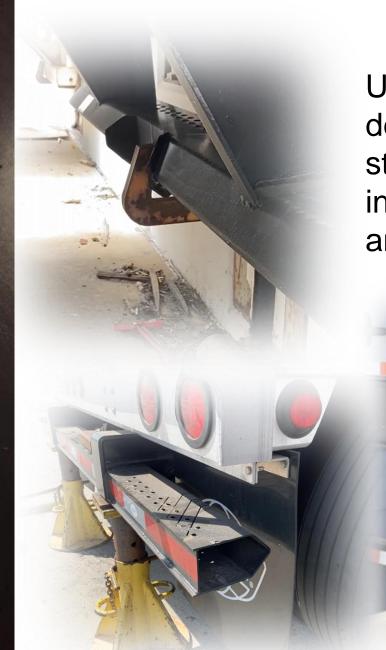


In 2018, Utility develops the 7" deep horizontal bumper tube that later replaced the 4" X 4" bumper tube on all of Utility's standard base-model- trailer RIGs. The new horizontal passed the 30% offset test shown here.

Utility Trailer

Applies to all dry van, refrigerated and flatbed units built after December 2019

IIHS TOUGHGUARD



Utility implemented the 7" deep tube on all its standard base model RIGs including reefers, dry vans, and flatbeds.

IIHS 30% Offset RIG Crash Test



G S w Original test on Curbside Mirrored Curbside to Roadside

The 30% Offset RIG Test Unintended Consequences

Westbound 35-MPH

Crash Vehicle. Original 2-Vertical RIG Typical 4-Vertical RIG Stationary **Stationary Trailer** Trailer EASTBOUND LANE EASTBOUND LANE (35-MPH Eastbound Innocent now included in crash.)