

NHTSA Heavy Vehicle Research/Rulemaking Report
TRB Truck and Bus Safety Committee Mid-Year Meeting
September 14, 2017

- **Truck Tractor and Large Bus Stability Control**
 - Petition to FMVSS 136 after final rule to create exception for long wheel truck tractors – currently addressing this petition
 - Docket for this rule is NHTSA-2015-0056 at www.regulations.gov

- **Heavy Vehicle Speed Limiters**
 - Proposed rule issued in September 2016 - This rulemaking would consider a new Federal Motor Vehicle Safety Standard that would require the installation of speed limiting devices on heavy trucks.
 - Press release:
<http://www.nhtsa.gov/About+NHTSA/Press+Releases/nhtsa-large-vehicles-speed-limiters-08262016>
 - Docket for this rule is NHTSA-2016-0087 at www.regulations.gov
 - This item has been moved to 'Long-Term' in the Unified Agenda of Regulatory and Deregulatory Actions.

- **Automatic Emergency Braking (AEB) Systems and Advanced Crash Avoidance Technology**
 - NHTSA received petition asking to regulate; start of rulemaking phase
 - AEB Systems - Research posted on docket: NHTSA-2015-0024 at www.regulations.gov
 - Field Operational Test (FOT) - 150 trucks instrumented, 7 fleets participated, over 3 million miles of data - Study Completed
 - Final Report is available on NHTSA website at:
http://www.nhtsa.gov/DOT/NHTSA/NVS/CrashAvoidance/TechnicalPublications/2016/812280_FieldStudyHeavy-VehicleCAS.PDF
 - Virginia Tech Transportation Institute (VTTI) Study on newer generation AEB systems is underway
 - Latest systems from Bendix, WABCO, and Detroit Assurance
 - 150 vehicles instrumented, approximately 1 year of FOT data collection to start in mid-2018
 - Safety Benefits of Heavy Vehicle Crash Avoidance Systems

- Study being conducted by Volpe National Transportation Systems Center starting September 2017
 - Establish target crash population and estimate safety benefits for AEB and other crash avoidance systems
- **Heavy Vehicle V2V Research**
 - Heavy Truck Trailer Basic Safety Message Development Study
 - Demonstrated concepts in August 2017 for automatically determining trailer specifications for a tractor based V2V system
 - Next step - testing and documentation of a full tractor based V2V system for various trailer types
 - Heavy Vehicle V2V Retrofit Feasibility
 - Project awarded to University of Michigan Transportation Institute (UMTRI) in December 2016
 - Determining applicability of retrofit V2V systems on heavy vehicles and costs
 - Final Report available in early 2018
 - Heavy Vehicle Cybersecurity
 - UMTRI Project on determining cybersecurity risks specific to heavy vehicles has completed
 - Final Report available in early 2018
 - Recently Released Final Reports available on NHTSA website: **New Web link:** <https://www.nhtsa.gov/crash-avoidance/office-crash-avoidance-research-technical-publications>
 - DOT HS 812 300 - Summary of NHTSA Heavy-Vehicle V2V Safety Communications Research
 - DOT HS 812 336 - Driver Acceptance of Collision Warning Applications Based on Heavy-Truck V2V
 - DOT HS 812 327 - Commercial Connected Vehicle Test Procedure Development and Test Results - Emergency Electronic Brake Light
 - NHTSA V2V Research Docket for related reports: NHTSA-2015-0060 at www.regulations.gov
- **Automated Vehicles**
 - NHTSA Automated Driving Systems 2.0
 - Released on September 12, 2017

- https://www.nhtsa.gov/sites/nhtsa.dot.gov/files/documents/13069a-ads2.0_090617_v9a_tag.pdf
- Automated Vehicles for Safety - NHTSA Website
 - <https://www.nhtsa.gov/technology-innovation/automated-vehicles>

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