NHTSA Heavy Vehicle Research/Rulemaking Report
TRB Truck and Bus Safety Committee Meeting
January 11, 2017

- **Truck Tractor and Large Bus Stability Control**
  - Received petition after final rule asking for changes to the performance tests to accommodate long-wheelbase truck tractors – currently addressing this petition
  - Docket for this rule is NHTSA-2015-0056 at www.regulations.gov
- **Heavy Vehicle Speed Limiters**
  - Proposed rule posted online (NPRM) - device on new vehicles to limit maximum speed on heavy vehicles; Combined NHTSA and FMCSA effort
  - 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
- **Automatic Emergency Braking (AEB) Systems and Advanced Crash Avoidance Technology**
  - Received petitions asking for AEB technology on heavy vehicles; Granted petition
  - AEB Systems - Research posted on docket: NHTSA-2015-0024 at www.regulations.gov
  - Field Operational Test (FOT) supports NHTSA AEB rulemaking activities - 150 trucks instrumented, 7 fleets participated, over 3 million miles of data.
    - Advanced Crash Avoidance Technology Field Operational Test Final Report is available on NHTSA website as DOT HS 812280, published on June 2016.
    - http://www.nhtsa.gov/DOT/NHTSA/NVS/Crash Avoidance/Technical Publications/2016/812280_FieldStudyHeavy-VehicleCAS.PDF
  - New study on newer generation AEB systems began in November 2016
    - Project awarded to Virginia Tech Transportation Institute (VTTI)
    - 30 month FOT study looking at systems from Bendix, WABCO, and Detroit Assurance

        - 150 vehicles instrumented, approximately 1 year of data collection
- **Heavy Vehicle V2V Research**
    - ***Note: Light Vehicle V2V Notice of Proposed Rulemaking (NPRM) was released on December 13, 2016.***
    - Heavy Truck Trailer Basic Safety Message Development Study
        - Planning to test and demonstrate concepts for automatically determining trailer specifications in 2017
    - 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
    - Heavy Vehicle Cybersecurity
        - Project on determining cybersecurity risks specific to heavy vehicles with UMTRI is nearing completion
        - Final Report available in the first half of 2017
    - Recently Released Final Reports available on NHTSA website: https://www.nhtsa.gov/research-data/crash-avoidance#10061
        - 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
- **Human Factors Research**
    - Visual-Manual NHTSA Driver Distraction Guidelines for Portable and Aftermarket Devices released in November 2016
        - https://www.nhtsa.gov/press-releases/us-dot-proposes-guidelines-address-driver-distraction-caused-mobile-devices-vehicles
- **Automated Vehicles**
    - DOT's Federal Automated Vehicles Policy released in September 2016; Provides guidance to all stakeholders such as leaders in

industry, state governments, safety advocates and the traveling public.

- https://www.transportation.gov/AV
- Two public meetings held in the Fall of 2016 and more public outreach planned in the future.