



NTSB National Transportation Safety Board

Office of Highway Safety

Heavy Vehicle Aggressivity

Ronald Kaminski

Issues

- Heavy Vehicle Aggressivity
- Research in United States and European Union
- Previous NTSB Recommendations

Crashworthiness

Factors

- Compatibility of impacting vehicles
- Structural design
- Construction materials
- Occupant protection

Heavy Vehicle Aggressivity



Heavy Vehicle Aggressivity

- Mismatched heights between the truck bumper and passenger vehicle bumpers
- Stiffer truck bumper and frame
- Weight differential between the truck and passenger vehicles

Research in the United States

- In 2000, the 21st Century Truck Partnership (21CTP) was created
- In 2006, the 21CTP published *“Roadmap and Technical White Papers”*
 - Tests or field trials not completed

Research in the European Union

- ECE Regulation 93
- *2003 VC-COMPAT*
- Primary Objectives
 - Create a database and conduct analysis of all heavy trucks and trailers
 - Report on available underride devices
 - Use numerical modeling as alternative
- *2006 VC-COMPAT* Results

Previous NTSB Recommendations

Hampshire, Illinois, October 2003



Safety Recommendations
H-06-15 and -16

Summary

- No Front Underride Protection Systems or any standards or guidelines
- No testing or changes by NHTSA
- Reiterate Safety Recommendations H-06-15 and -16



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