

ATDynamics TrailerTail®

- ATDynamics TrailerTail[®] was the first approved boat tail meeting FHWA exemption requirements
- Due diligence Evidence included a crash test of a van into the rear of a trailer equipped with TrailerTail® at 56 km/h (Karco Engineering, LLC)



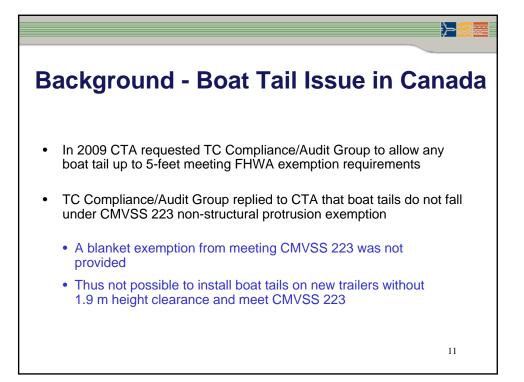


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Source: Figure 12, Karco's report

Source: Figure 22, Karco's report







NRC Research Study

➤ Wind Tunnel

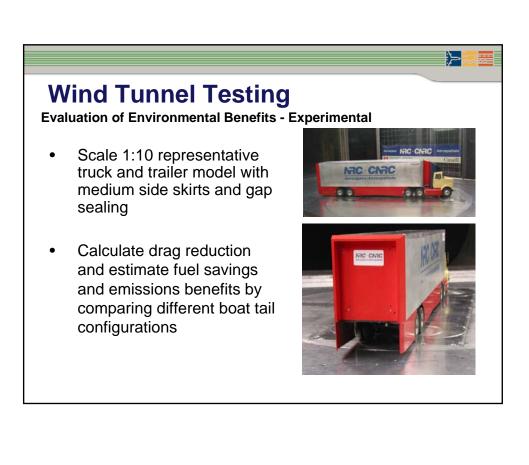
 to evaluate the aerodynamic effect of different boat tail parameters (length, height, panel angle, etc.)

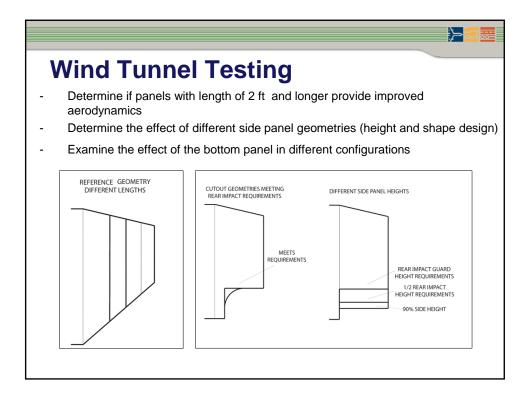
NRC Vehicle dimension analysis

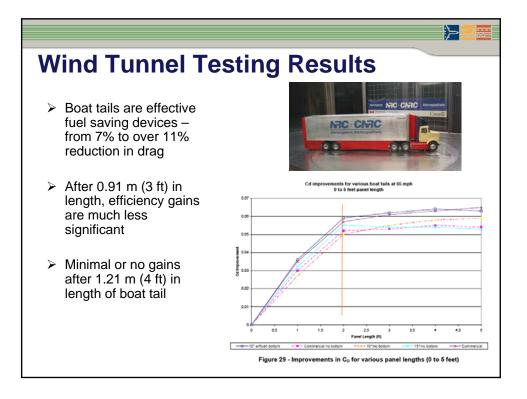
- to evaluate what percentage of vehicles would first strike a boat tail and determine location on the vehicle
- to define rear impact zone without compromising safety

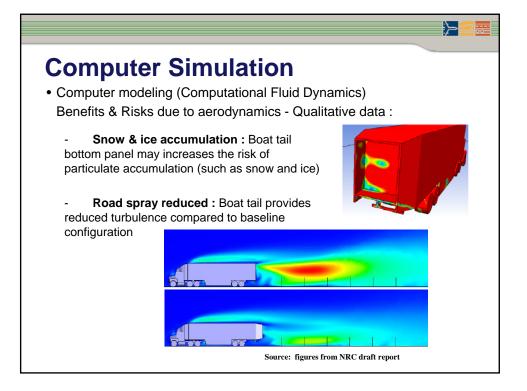


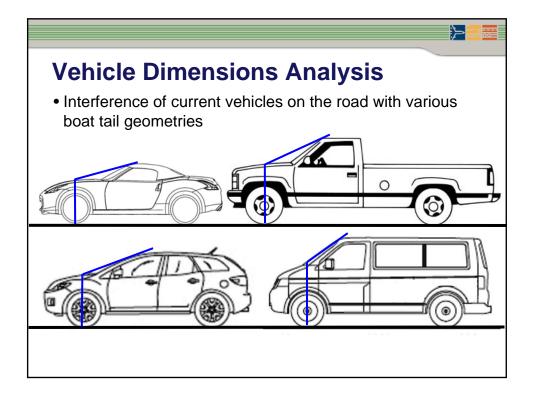
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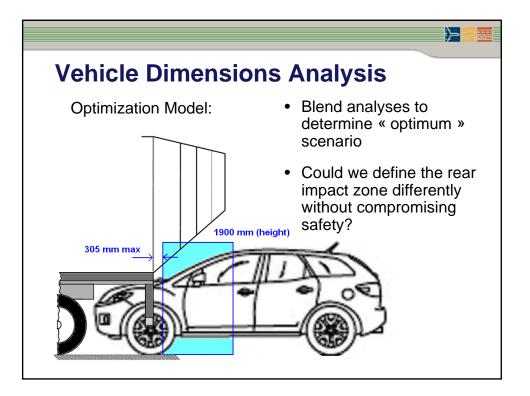


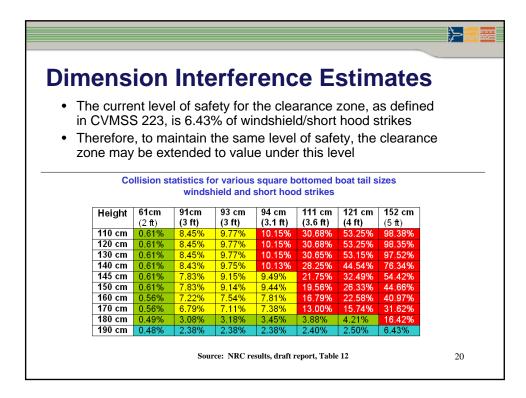












NRC Vehicle Dimension Interference Estimates

Less that than 10% of vehicles would strike the boat tail in the windshield area before striking the rear of the trailer if the boat tail was 121 cm (4 ft) long and had more than 1 740 mm of ground clearance over the last 30 cm (1 ft)

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