



**National
Transportation
Safety Board**

**School Bus and Truck Collision
at Intersection
Near Chesterfield, New Jersey
February 16, 2012**

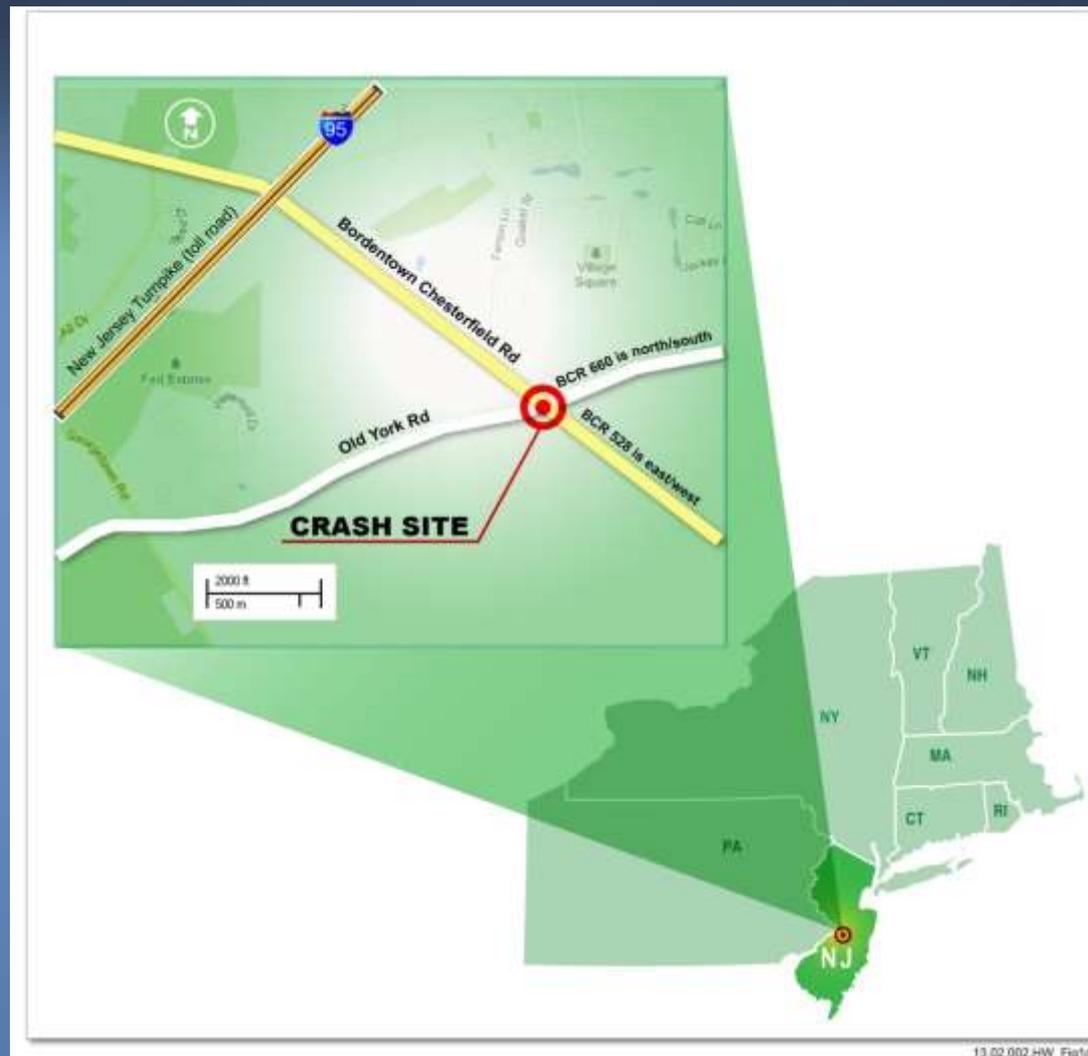


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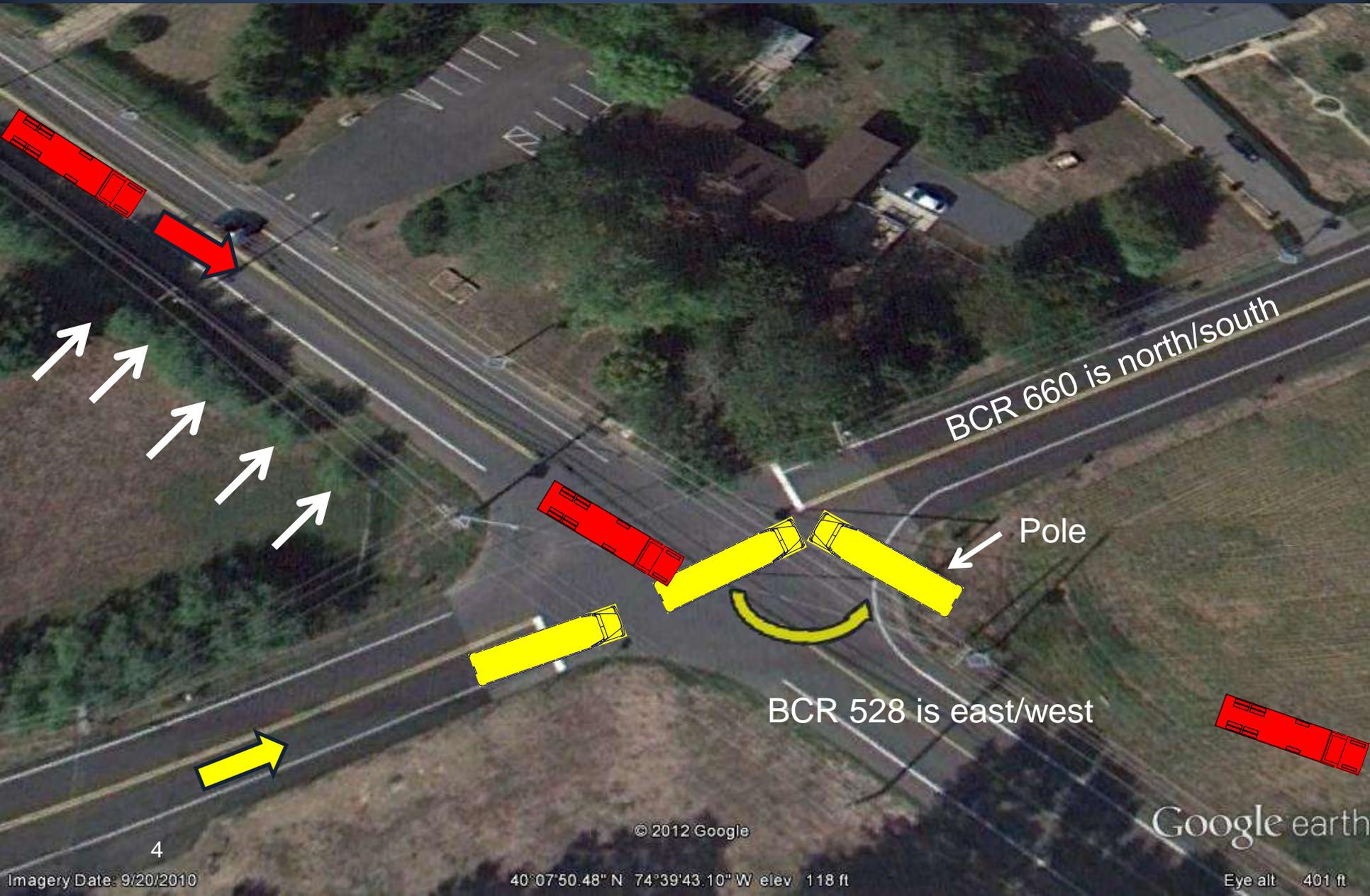
Opening Statement

Pete Kotowski
Investigator-in-Charge

Chesterfield Crash Location



Crash Sequence



BCR 660 is north/south

Pole

BCR 528 is east/west

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Google earth

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Imagery Date: 9/20/2010

40°07'50.48" N 74°39'43.10" W elev 118 ft

Eye alt 401 ft

Chesterfield School Bus - Left Side



Courtesy Burlington County Prosecutors Office

Chesterfield School Bus - Right Side



Courtesy Burlington County Prosecutors Office

Truck - Front View



Courtesy Burlington County Prosecutors Office

Chesterfield Animation



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Animation of Accident Reconstruction

School Bus and Roll-Off Truck Collision at Intersection

Near Chesterfield, New Jersey

February 16, 2012

HWY12MH007

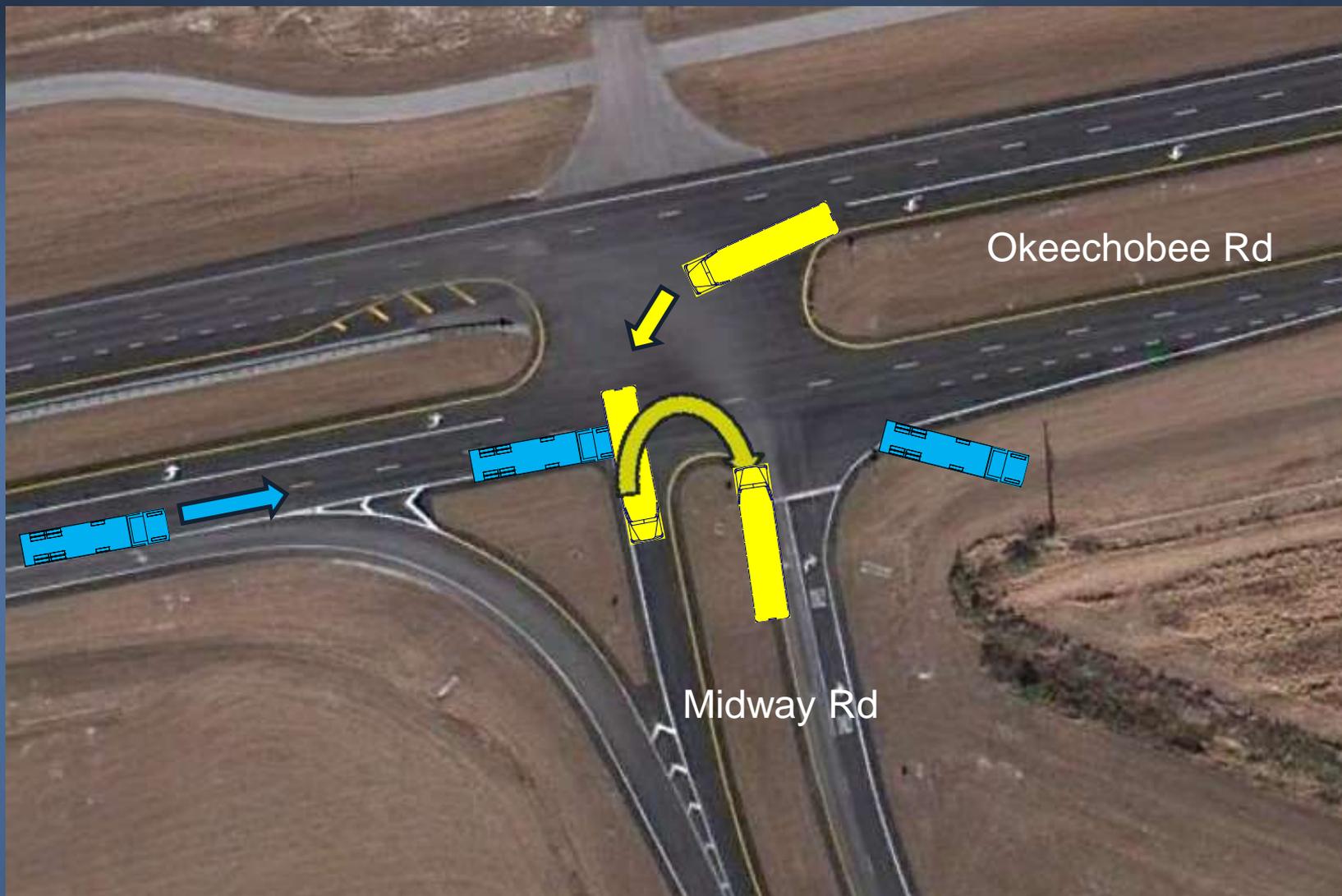
Chesterfield Injuries

- 25 passengers
 - 1 fatality
 - 5 serious injuries
 - 10 minor injuries
 - 9 uninjured
- School bus driver: minor injuries
- Truck driver: uninjured

Port St. Lucie, Florida



Port St. Lucie Crash Scene



Port St. Lucie School Bus Interior



Port St. Lucie Injuries

- 30 passengers
 - 1 fatality
 - 8 serious injuries
 - 11 minor injuries
 - 10 uninjured
- Bus driver: minor injuries
- Truck driver: refused treatment

Comparison of School Buses

Chesterfield



Port St. Lucie



Chesterfield On-Scene Investigative Staff

- Pete Kotowski – Investigator-in-Charge
- Dave Rayburn – Highway Factors
- Dennis Collins – Human Performance Factors
- Gary Van Etten – Motor Carrier
- Ron Kaminski – Survival Factors
- Steve Prouty – Vehicle Factors
- Dr. Kristin Poland – Biomechanics
- Ben Hsu – Vehicle Recorders
- Pummy Bawa – Computer Support

Chesterfield Investigative Support Staff

- Robert Squire – Accident Reconstruction
- Dr. Elias Kontanis – Transportation Disaster Assistance
- Shane Lack – Simulations
- Nancy McAtee – Materials Laboratory
- Nick Worrell – Public Affairs
- Keith Holloway – Public Affairs

Chesterfield Report Development Staff

- Michele Beckjord – Project Manager
- Debbie Stocker – Editor
- Julie Perrot – Safety Recommendations
- Alice Park – Computer Simulation
- Christy Spangler – Computer Simulation
- Dr. Ivan Cheung – Statistical Analysis
- Mark Bagnard – Audio/Visual

Port St. Lucie Investigative Staff

- Robert Accetta – Investigator-in-Charge
- Dr. Tom Barth – Survival Factors
- Dr. Kristin Poland – Occupant Kinematics
- Dr. Dan Horak – Video Analysis
- Shane Lack – Simulations

Chesterfield Parties

- FMCSA
- NHTSA
- New Jersey State Police
- NJ Motor Vehicle Commission, School Bus Inspection Unit
- Burlington County Prosecutors Office
- Burlington County Engineers Office
- Chesterfield Township Police Department
- Florence Township Police Department
- Navistar Inc (IC Bus, LLC)
- Mack Trucks, Inc.
- Bendix Commercial Vehicle Systems, LLC
- Garden State Transport, Inc.
- Palfinger American Roll-off (PARO)
- Herman's Trucking Inc.

Chesterfield Safety Issues

- School bus driver
 - Fatigue, medical issues, CDL exam
- Truck
 - Speed, overweight, brake system
- Connected vehicle technology
- School bus occupant protection



National Transportation Safety Board