Vehicle Crashworthiness and Occupant Protection

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Survival Factors Issues

- Occupant protection
- Roof strength
- Advanced window glazing
- Luggage rack securement
Exterior Deformation

- Front fenders, hood, skirts, front roof, loading door
- 9 of 10 windows broken
- Minimal roof damage
Interior Damage

- No seat deformation
- Luggage racks
  - Detachments
  - Evidence of contact
  - No standards
Injuries

- 17 Occupants
  - Driver
  - 16 passengers
  - Aged 8-62 years
- 15 Ejections
- 7 Fatalities
  - 6 were ejected
- Total:
  - 7 fatal, 7 serious, 3 minor
Crashworthiness

No standards for:

- Occupant protection (other than driver)
- Roof strength
- Advanced glazing
Crashworthiness

- No seat belts for passenger seats
- Driver’s seat equipped with lap/shoulder belt
Crashworthiness
Crashworthiness

• Lake Placid, Florida
Motorcoach Safety Action Plan

U.S. Department of Transportation
Motorcoach Safety Action Plan
Summary

• No standards for occupant protection, roof strength, advanced window glazing, and luggage rack securement on medium-size buses

• Include buses above 10,000 lbs in rulemaking that addresses occupant protection, roof strength, window glazing, and luggage rack performance