



U.S. DOT

SGS-1-2

National Highway Traffic Safety Administration

Research & Development/Studies



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- **Electrical Isolation Test Procedure for HFCVs (completed phase 1)**
 - Procedures for evaluating post-crash electric isolation must be updated to include fuel cells (currently apply to batteries only)
- **Failure Modes and Effects Analysis (FMEA) for Compressed HFCVs (draft completed)**
 - Develop a structured, high-level schematic of a compressed HFCV to determine potential areas of concern for crashworthiness and fire safety
- **Evaluation and Comparative Analysis of Existing and Draft HFCV Regulations and Standards (draft completed)**
 - Develop and maintain a database of industry standards, and regulations relating to HFCV safety with a query interface that allows quick comparison by component, function, design and performance requirements
- **Compressed Hydrogen Fuel Container Integrity Testing (October 2007)**
 - Burst, bonfire, pressure cycling, gunfire penetration



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- **Projects planned for 2008**

- Assess several proposed alternatives for electrical isolation testing
- Analyze research performed by outside sources
- Award a task order contract to conduct system level safety assessment on representative fuel systems, vehicles, to assess post crash fuel leakage and fire safety