

Grade Crossing Data Collection System



Project Description:

Develop a system to automate the collection of data for vehicle and train activity at a grade crossing. System will:

- Collect data on motor vehicle numbers, size, speed, driver behavior (slowing, speeding up, etc.)
- Collect data on speed and timing of train crossings
- Document important aspects of motor vehicle driver behavior for understanding accidents

Railroad Impact:

Approximately 38% of railroad deaths are related to grade crossings. Approximately 21% of all incidents are related to grade crossings.

- Reduce accident rates by improving the understanding of vehicle driver behavior at grade crossings
- A system for automated vehicle driver behavior data collection.

Cost & Schedule:

- **FY04-05** – System design, integration, and testing
- **FY06-07** – Proof-of-concept system demonstration and system delivery
- **FY07-FY09** - System retained at Volpe Center where it will be evaluated for future grade crossing research usability

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