Transportation Security

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Presentation Outline

- National Transportation Security Research and Development
  - AASHTO
  - TRB
  - Security Research & Development Projects

- Wisconsin’s Transportation Security Efforts
AASHTO Overview

- American Association of State Highway Transportation Officials (AASHTO) is a nonprofit, nonpartisan association representing highway and transportation departments in the 50 states, the District of Columbia and Puerto Rico.

- It represents all five transportation modes: air, highways, public transportation, rail and water. Its primary goal is to foster the development, operation and maintenance of an integrated national transportation system.

- In developing this system AASHTO utilizes various committees to formulate research projects and approve them accordingly.
Special Committee on Transportation Security Charge

- Promote awareness and education about transportation security among state DOT’s by:
  - Supporting or organizing meetings and conferences.
  - Preparing guidance materials on a range of topics.
  - Shall work with partner agencies to undertake a comprehensive program of transportation security research.
  - Shall engage and partner with other federal and state-level agencies and organizations involved in transportation security activities to advance development of security plans, regulations, policies, programs that meet the needs of AASHTO members.
Transportation Research Board (TRB) Overview

- Division of the National Research Council of the National Academy of Sciences
- Created in 1920
- Independent adviser to the federal government and others on scientific and technical questions
- Primary manager of Transportation Research and Development efforts
- Uses Committee Structure to Set Priorities
SUBCOMMITTEE STRUCTURE:

- Systems Analysis & Planning: Interdependencies
- Systems Integration & Management: Architectures
- Information Assurance
- Technology Development, Demonstration & Deployment
- Training, Education & Technology Transfer
- Liaison and Public Policy/Public Service & Awareness
AASHTO / TRB Security R&D Efforts

- After 9/11 ... AASHTO Task Force on Transportation Infrastructure Security along with TRB identified 56 critical security research and development efforts.

- Through FY2005 over $9 million will be spent on Transportation Security research and development.

- These are NCHRP, TCRP, and General Multi-modal projects.
TCRP Projects Completed

– Communication of Threats
– Use of Portable Explosive Detection Devices
– K9 Units in Public Transportation
– A Guide to Public Transportation Security Resources
– Intrusion Detection for Public Transportation Facilities
TCRP Projects Completed (Cont.)

- Security-Related Training and Customer Communications
- Scan: Tools for Prioritizing Anti-Terrorist Security Measures
- White Paper on Decontamination Procedures
- White Paper on Technology Clearinghouse
- Transit Security Roundtables and International Conference
- Emergency Response Mobilization Strategies and Guidelines for Transit
NCHRP Projects Completed

–A Guide to Updating Highway Emergency Response Plans for Terrorist Incidents

–A Guide to Highway Vulnerability Assessment for Critical Asset Identification and Protection ... 207/151

–National Needs Assessment for Ensuring Transportation Infrastructure Security

–Blue Ribbon Panel on Bridge and Tunnel Security

–State Transportation Agency Field Personnel Manual

–Secure Communication Infrastructure

–Vulnerability Assessment & Emergency Response Workshops

–AASHTO-sponsored Research Workshops and Forum
NCHRP Projects in Progress

- AASHTO Security Task Force Support …Ongoing
- Vulnerability Assessment Self-Study Course …June 2004
- Emergency Transportation Operations Guide …June 2004
- Guidelines on Transportation and Economic Resilience to Terrorist Attacks or Other Events …June 2004
- Response Options: A Guide to Transportation’s Role in Public Health Disasters …July 2004
- Security Website (Information Clearinghouse) …Dec. 2004
- Preparation of Educational Materials and Resource CD
- Field Personnel Training CD-ROMs and Train-The-Trainer
Multi-modal Projects in Development

- AASHTO Guide to Risk Management of Multi-modal Transportation Infrastructure ... 20-59(17)
- Guidelines for Drills and Exercises
- Transportation Agency Continuity of Operations Plans
- Security Course for Rural Public Transportation Systems
- Making Transportation Tunnels Safe and Secure
- Security Measures for Ferry Systems
- Blast/Impact-Resistant Highway Bridges: Design Detailing
- Guidelines for Emergency Quarantine Closures of Roads
- Update of the 2002 Guide to Updating Highway Emergency Response Plans for Terrorist Incidents
AASHTO Guide to Risk Management of Multi-modal Transportation Infrastructure

AASHTO / TRB will work with the FHWA and the Transportation Security Administration (TSA) to develop an update of the 2002 AASHTO Guide to Highway Vulnerability Assessment for Critical Identification and Protection.

The update will expand the existing guide to include all DOT transportation modes and to include methodology to determine cost-effective countermeasures.
Wisconsin DOT’s Security Efforts
All Hazards Approach

- Wisconsin, as well as most state DOTs, has an all hazards approach in dealing with terrorism.

- Weather, traffic, geological and terrorist incidents use the same processes.
Incident Policies and Procedures

With the all hazards approach, states are revising their incident policies and procedures to include security enhancements.
COOP / COG

- Required by FEMA and FHWA of each State
  - Short Term and Long Term

- If there was a work environment incident
  - Where will DOT business be relocated?
  - How will communication be made with employees?
  - How will workforce staffing levels be determined?

- IT connectivity is critical ... the business areas need to prioritize their technology needs
  - Mainframe / Serverland Back-up. How long can you survive without e-mail and network connectivity.
  - These are business decisions not technical ones
Communication
Interoperability

- Public agencies need to talk to one another during critical incidents
- Includes voice and data communication
- State-to-State and regional long-range communication interoperability plans need to be developed
Vulnerability Security Assessment / Implementation of Countermeasures

- AASHTO / FHWA are requiring each state to perform a Vulnerability Assessment of their Critical Infrastructures.

- Implement Countermeasures to the Critical Infrastructures

- Countermeasure Design Solutions
  - i.e., harden the infrastructure, cameras and video surveillance, parking restrictions, redundant “emergency” routes, etc.
Status of Current Vulnerability Assessment Efforts

- Highway Infrastructure (Bridges and Structures) Assessment
- General Aviation Airport (GAA) Assessment
- Rail Infrastructure Assessment
- Maritime Assessment (Coast Guard)
Funding for Security Enhancements

• How are states going to fund additional critical security needs and enhancements?
  • This is a difficult issue for state DOTs to address!
  • WisDOT is applying for Grants and Earmarks for necessary Highway Security Enhancements from findings of the vulnerability assessment
Questions!