Synthesis of best practices in transportation security

Scores die in Madrid bomb carnage

Project Team

- Study Advisory Committee
  - PA: Tommy Nantung, INDOT Research
  - Jim Poturalski, INDOT Operations Support
  - Mike Houglund, INDOT Seymour District
  - Bill Bonning, INDOT Systems Technology
  - Mike Bowman, INDOT Operations Support
  - David Franklin, FHWA
  - Cliff Ong, CTASC
- Principal Investigator: Prof. Jon D. Fricker
- VA and HERP research specialists: Haritha Reddy and Rodrigo Vargas

Project objectives

- Current status of security-related activity in Indiana
- Reports, studies, guidelines at federal level
- What is being done in other states
- Produce alternatives for INDOT role in transportation security.
- Prepare a "blueprint for a plan".

Project elements

- Vulnerability Assessment (VA)
- Highway Emergency Response Plans
- Risk Assessment
- What are state DOTs doing, or planning to do?
- Develop a strategy for INDOT, identify resources, assign responsibilities.

Vulnerability assessment

- 1st step: Pre-assessment on vulnerability of highways.
- How much data required?
- Identify source of these data
- Prepare a framework for scenario selection to reduce the likelihood and impact of an attack.
6 steps in VA of highway transportation assets

- Step 1: Identify critical assets
- Step 2: Assess vulnerabilities
- Step 3: Assess consequences
- Step 4: Identify countermeasures
- Step 5: Estimate countermeasures cost
- Step 6: Review operational security planning

Step 1: Identify Critical Assets

- Subways?
- Airports?
- Railroads?
- Tunnels?
- Bridges?
- Highways?
- Rest Areas?

Criticality-Vulnerability Matrix

<table>
<thead>
<tr>
<th>Quadrant IV</th>
<th>Quadrant I</th>
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<tbody>
<tr>
<td>Low criticality and high vulnerability</td>
<td>High criticality and high vulnerability</td>
</tr>
<tr>
<td>Quadrant III</td>
<td>Quadrant II</td>
</tr>
<tr>
<td>Low criticality and low vulnerability</td>
<td>High criticality and low vulnerability</td>
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Multidisciplinary Team

- Members who “possess a working knowledge of the department’s mission, critical assets, and policies, plans and procedures.”
- Review study findings and suggest program modification to INDOT emergency response plans.

Emergency Response Plans

- State all-hazards emergency management plans tend to follow the FEMA-established plan. Review and suggest program modification to INDOT emergency response plans.
- Find best practices from other states; review effectiveness and resource requirements; coordinate with adjacent states.

Risk Assessment

- Estimation of risks associated with moving and packaging materials
- Management of these risks through proactive measures such as emergency preparedness, remote sensing, and route selection
Related research projects

- Primary emergency routes for transportation security
- Alertness and awareness training

Tp. Security challenges

- What should INDOT do?
  - Detect?
  - Prepare?
  - Prevent?
  - Protect?
  - Respond?
  - Recover?

Counter-Terrorism and Security Council (CTASC)

- Indiana’s Homeland Security agency
- Mission = develop and implement a comprehensive state strategy to address terrorism in Indiana
- Indiana’s Strategy for Homeland Security

Highway safety and anti-terrorism training

- INETA organized program (one of 24 states)
- Funded by the Federal Motor Carrier Safety Administration and supported by the American Trucking Associations, Indiana Department of Transportation, Indiana State Police and the Governor’s Council on Impaired Drivers
- Two-hour course
  - Trains truck drivers to report accidents, breakdowns, hazardous road conditions and ... identify and report suspicious behavior that may be related to criminal or terrorist activity

Port Watch Program

- Partnership between the Ports of Indiana and its tenant companies
- Empowers employees to become the "eyes and ears" of Indiana’s port system.
- ID card with emergency contact numbers, including a toll-free number to the Terrorist Incident Reporting Hotline at the National Response Center

National Response Center

- National Point of Contact for Reporting:
  - Oil/Hazardous Material Spills
  - Radiological/Biological Releases
  - Railroad/Transit Incidents
  - Biological & Chemical incidents that may be categorized as Weapons of Mass Destruction committed by terrorists.
Communications and information sharing
• Dallas Emergency Response Network = a web based information management system that allows the public to report incidents and allows for user groups to share critical information in a timely fashion.
• Indiana ERN seeks to remove institutional barriers to exchanging information.
• What level of info security?

Study findings to date
• Most interagency links are informal, but effective:
  – State Emergency Management Agency
  – Indiana State Police
  – INDOT
  – Dept. of Environmental Management
  – Dept. of Health
  – National Guard

Emergency Operations Center(s)
• One for each agency?
  • SEMA
  • TMC
  • CTASC
  • others
  • Co-locate?

Incident command system

Homeland Security in Other States
• [www.nga.org](http://www.nga.org) – Site Index → state Homeland Security offices → Transportation Security?
• Transportation Security Administration
  • Transportation Risk Assessment and Vulnerability Evaluation (TRAVEL) Tool
  • TSA Self-Assessment Risk Module (TSARM)

Work Plan
1. Establish status of emergency planning at INDOT.
2. Review existing literature pertaining to strengthening transportation security.
3. Begin coordination with other state DOTs and national-level resources.
4. Review INDOT emergency management plan.
5. Evaluate methods for reaching INDOT goals.
6. Develop blueprint for INDOT action.