TSA Risk Analysis Activities

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Tough Risk Questions That I Think About

• How to measure indirect economic impacts?

• How do we improve threat assessments?

• What is the best approach to measure vulnerability?

• How to compare security risks to natural hazards or accidents?

• How do you measure risk reduction at a system level?

• How do you add up risks at a regional or national level?

• How do we better link together risk analyses and exercises?

• How do we improve the sharing of risk information?
TSA takes both a Top-Down and Bottom-Up approach to risk mgmt

Top Down Approach

National Risk and Threat Analyses

Establish Risk Objectives and Security Standards
Implement Security Programs

Field-Level Assessments
(Compliance Inspections and Risk Assessments)

Bottom Up Approach

Ongoing effort to:
- Learn
- Evaluate
- Refine
- Evolve
...the process

EXAMPLES
- NTSRA
- Threat Assessments
- Top 100 List
- SHIRA
- NCRA
- BASE Reviews
- SAIIS
- TIH Rail Corridor Assessments
- Corporate Security Reviews
- SAAP Assessments

Not all used in every mode
Recent or Ongoing National Level Analyses

- Strategic Homeland Infrastructure Risk Assessment
- National Comparative Risk Analysis
- National Transportation Security Risk Analysis
- Corporate Security Review Trend Analysis (Highway and Pipeline)
- HSPD-16 Comprehensive Risk Analysis of the Air Domain
TSA’s New Risk Mgmt Analysis Tool (RMAT)

Frequency
Impact
Baseline
Countermeasure set A
Countermeasure set B
For many Monte Carlo runs
Single adversary
Countermeasure set A
Baseline
Impact Reduction
Impact
And a few thoughts on regional risk…

- Existing PortStep Exercise program brings together surface transportation stakeholders for port-centric exercises
- Initial discussions at federal level to expand PortStep to provide a regional look
- A regional risk analysis would help set exercise priorities

- Transit Security Grant Program provides support to state and locals at approx $175M
- This year regional risk working groups are being used to set regional priorities
- First session completed with New York City stakeholders; sessions planned for other major cities