Welcome!

FHWA Office Planning Webinar

Security in the Project Planning and Development Process – Busting a Few Myths

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Presenters

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To provide information about planning for security in transportation infrastructure projects.
Objectives

- Understand when to include security in the planning process
- Learn about resources that are available to assist you
- Learn how you can expand the planning community
Myths

- Security specialists plan for security
- There is no money for security
- No one ever talks about security during planning meetings
- Nothing can be done
Terrorist organizations have identified transportation infrastructure as targets

- Transportation infrastructure
  - supports national economic well-being
  - provides freedom of movement
Highway infrastructure ties our nation together

Bridges and tunnels are the most likely terrorist highway targets

Tools are available to assist with choosing countermeasures
Who Plans for Security?

- Security planning requires working with non-traditional partners...
  - security
  - law enforcement
  - fire/EMS
  - emergency management
- ...Throughout the process to
  - address their requirements
  - save time and money

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Considering Security and Emergency Management in the Planning of Transportation Projects

- Developed by FHWA Pooled Fund Study
Costing Asset Protection: An All Hazards Guide for Transportation Agencies (CAPTA)

- NCHRP 20-59 panel project
CAPTool Users Guide

- FHWA Infrastructure Security Professional Capacity Building project
IS-860.a, National Infrastructure Protection Plan (NIPP)
- DHS developed on-line course
- Find at http://training.fema.gov/EMIWeb/IS/courseOverview.asp?code=is-860.a
Risk Management for Terrorist Threats to Bridges and Tunnels Workshop

- Conducted by FHWA upon request
- Self paced version might be available from State training officers
- Find at http://www.fhwa.dot.gov/security/emergencymgmt/proficiencybldg/training.cfm
Blast Design & Analysis for Bridge Structures Workshop

- Conducted by FHWA upon request
- Find at

http://www.fhwa.dot.gov/security/emergencymgmt/proficiencybldg/training.cfm
Funding security for security is authorized by MAP-21
Transportation Systems Management:
Integrated strategies to optimize the performance of existing infrastructure through the implementation of multimodal and intermodal, cross-jurisdictional systems, services, and projects designed to preserve capacity and improve security, safety, and reliability of the transportation system.
Section 119. National Highway Performance Program

ELIGIBLE PROJECTS:

(B) Construction, replacement (including ... security countermeasures, and protection against extreme events) of bridges on the National Highway System.
Section 1108. Surface Transportation Program

ELIGIBLE PROJECTS:
(2) Replacement ... (including ... security countermeasures, and protection against extreme events)
Section 134. Metropolitan Transportation Planning

... increase the security of the transportation system for motorized and non-motorized users
What do we Know?

- Keep people away from critical components
  - Plan for access control
Plan For Access Control
Access Control and Standoff

Standoff of 6': Several thousand pounds

Contact, elevated, un-tamped: Few hundred pounds

Center of mass: Few pounds

Required C-4 Charge Size for Breaching of Concrete

Source: FM5-250 and ConWep
What do we Know?

- Keep people away from critical components
  - Plan for standoff
Plan for Standoff
Plan for Standoff
What do we Know?

- Ensure sensors provide more than a historical record
  - Link surveillance devices and sensors directly to the response force
Detect and Respond

• Detection systems tied to good response
  – CCTV
  – Intelligent video
  – Intrusion alarms
  – Concept of operations for response
What do we Know?

- Redundancy equals resilience
  - Eliminate single points of failure
Eliminate Single Points of Failure

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What do we Know?

- Structural hardening may be the most effective option

  - Harden critical components when adequate standoff is not reasonable
Structural Hardening
Benefit from Standoff and Design

Little Standoff/Hardening

Designed Protection
Examples of Planning Meetings

- FHWA has led or participated in planning workshops in several states, including:
  - California
  - New York
  - Iowa
  - Kentucky
  - District of Columbia
Example Security Planning Process
Port of Long Beach

- An initial workshop, led by FHWA in 2007
  - Component-level risk assessment
  - FHWA report
Example Security Planning Process
Port of Long Beach

- Private consultant analysis and report
- Design-build process used reports to establish security criteria
- Final design workshop in 2013
There is not just one way to plan for security.
Documents, methodologies, training are available to assist you

Funding for security is authorized

Countermeasures are available

Expand your planning teams; include non-traditional partners throughout the process