Connecting & Securing our World

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Marine Terminal Management Training Program

Regional Maritime Security Case Study

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Presentation Outline

- Maritime Security
- Federal Emergency Management Agency
- Regional Maritime Security Approach
- Houston Ship Channel Security Case Study
U.S. Port Security Requirements

Regulatory compliance

- Maritime Transportation Security Act of 2002
- U.S. Coast Guard
  - Facility Security Assessments (July, 2003)
  - Facility Security Plans (December, 2003)
  - Plan Implementation (July, 2004)
  - Compliance (ongoing)
Port Security Grant Program

Overview

- **Federal Emergency Management Agency**
  - Develops, releases, reviews, approves, & manages PSGP funding

- **Strategic Plan Requirements**
  1. Tier I (2007)
  2. Tier II (2008)

- **Regional Approach (2006-2010)**
  1. Tier I Port areas (7)
  2. Tier II Port areas (48)
  3. Tier III Port areas (43)
Case Study

Houston Ship Channel Security District
Houston Ship Channel

Geography

- 58-mile ship channel includes;
  - Port of Houston
  - Port of Galveston
  - Individual facilities outside of port jurisdiction
Houston Ship Channel
Houston Ship Channel

Critical value

- 210 million tons of cargo - 7,000 annual ship calls
- 2nd in total trade by cargo volume in the US
- largest petrochemical complex in the US
  - 50% of the gasoline used within the US
  - 75% of the petrochemical products & feed stocks in the US
  - 2/3 of the US capacity for natural gas transmission.
  - refines 2.2 million barrels of oil each day
Houston Ship Channel Security District

History & Mission

Created: June, 2007 - State of Texas Legislative Act
June, 2009 – Harris County Authorized a District

Objective: Provide a robust, scalable, security solution for water and landside areas within a regionally identified area aligned with the Captain’s of the Coast Guard’s Sector...

Detect, Deter, Respond, and if necessary, quickly Recover
Houston Ship Channel Security District

Agency coordination

- County and Municipal Law Enforcement
- County Emergency Management
- County & City Homeland Security
- Port of Houston
- United States Coast Guard
- Houston Ship Channel Security Council
- Houston TranStar
Houston Ship Channel Security District

Concept of Operations

Control & Info Collect System

Threat?
- No
- Yes

- No action

Analyze, Disseminate
- Normal operation monitoring
- Detect: physical-signature based; rule-based; anomaly-based, ...
- Track
- Classify (categorize)
- Identify: individualized info
- Input to threat decision

Common Operating Picture

Investigate/Respond

No

Yes
Houston Ship Channel Security District

Costs

- Construction costs
  - Estimated at $36 million

- System operational and maintenance costs
  - Estimated to be $5.5 million
Houston Ship Channel Security District

Infrastructure Funding

- Security System Funding
  - Federal Grants
  - Matching Funds
    - Public
    - Private
Houston Ship Channel Security District
Operational and Maintenance Funding

- Public
  1. In-kind Contributions

- Private
  - Annual tax based assessments
    - Employees and acreage
    - $6,000 to $250,000 per year
Houston Ship Channel Security District

Benefits

- Improved security infrastructure
- Enhanced security capability
- Improved response times
- Improved information sharing (alerts & notifications)
- Surveillance of district geography without infringement on privacy
- A consolidated, multi-agency operational and strategic command and control emergency response structure
Houston Ship Channel Security District

Questions
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