Community Vulnerability Analysis Methodology

Community Characterization

- Communications
- Power/Electric
- Gas/Oil
- Industry
- Water
- Banking/Financial
- Education
- Government
- Transportation
- Emergency
- Foreign Represented Governments
- Recreational Venues
- Special Classification
Community Characterization

Communications

- Telephone Switching Stations
- Computers
- TV Stations
- Radio Stations
- Communication Towers
- Power Sources
Community Characterization

Power/ Electric

• Substations
• Lines
• Generators
  • Dams
  • Nuclear Power Plants
• Backup systems
Community Characterization

Gas/Oil

- Refineries
- Storage
- Delivery System (Pipes, etc.)
Community Characterization

Industry

- Resources
- Services
- Products
- Facilities
Community Characterization

Water

- Delivery System
- Storage
- Sewage Treatment Plant
Community Characterization

Banking/ Financial

- Computer
- Money Supply/ Distribution
Community Characterization

Education

- Schools
- Universities
- Other
Community Characterization

Government

• Federal
  • Military Installations
  • High Profile
    • Courthouses
    • Law Enforcement Locations
  • Services (ex. U.S. Postal)
• State
• Local (ex. City Hall)
Community Characterization

Transportation

- Highways
- Railways
  - Terminals
- Bus Stations
- Pipelines
- Waterways
  - Marine Ports
- Airports
- Storage area of fleet (airplane, train, bus, ship, etc.)
Community Characterization

Emergency

- Hospitals
- First Responder Locations
- Shelters
Community Characterization

Foreign Represented Governments

- Embassies
- Consulates
- Designated Residences of Foreign Officials
- Businesses
Community Characterization

Recreational Venues

• Parks
• Museums
• Auditoriums
• Tourist Attractions
Community Characterization

Special Classification

• Abortion Clinics
• Churches
• Synagogues
• Others
Community Vulnerability Analysis Methodology

Threat Definition

Profile the adversary

A well developed threat definition should include information on the:

- Type of adversary to be considered (terrorist, activist, employee, etc.)
- Category of adversary (insider or outsider, and the opportunity for collusion)
- Objectives of each type of adversary (sabotage or theft)
- Number of adversaries expected for each category
- Type of weapons that they may possess (automatic weapons to include explosives)
- Motivating factors for the adversary
Threat Definition

Profile the adversary (cont.)

- Type of planning activities required by the adversary to accomplish their objectives
- Kind of equipment that an adversary could be expected to bring
- Type of transportation requirements of the adversary
- Most likely or worst case time an adversary could attack the facility based on their motivation
Threat Definition

Threat Likelihood of Occurrence

Specify Undesirable Event

Does threat have resources to achieve undesirable event?

Does threat have intention or history?

Has threat targeted the facility?

Existence - the group is assessed to be present, or able to gain access to the area

Capability - the group is assessed to have or has demonstrated the level of capability to conduct the attack

Intentions - recent demonstrated activity or stated or assessed intent to conduct such activities exists

History - demonstrated activity exists over time

Targeting - current credible information indicates the group is preparing for a specific attack

P_A = likelihood of occurrence
VH = very high
H = high
M = medium
L = low
VL = very low
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Target/ Asset Identification

Specific Undesirable Consequences

- Loss of human life
- Loss of revenue
- Loss of vital equipment
- Loss of vital resources
Target/ Asset Identification

Identify Specific Targets/ Assets

- Community Characterization
- Fault Tree Analysis Methodology

Undesirable Event

- Terrorist Attack
- Natural Disaster
- Equipment Failure
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Physical Protection Systems

- Detection/Assessment
- Delay
- Response
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Scenario Development

- Personnel
- Equipment
- Implementation
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Results

- Identifies high risk targets/assets and associated consequence values
- Opportunities to create community awareness
- Prioritizes security countermeasure expenditures
- Compliments and supports previously developed efforts (NIJ grant/OSLDPS training)