



Vulnerability Assessment and Critical Infrastructure

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Vulnerability Assessment

Why the critical infrastructure?

Because it's easy..?

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Vulnerability Assessment

- Pre-9/11 thinking:
 - How we perceived our vulnerability
 - Part of the International community
 - Accidents? Yes...
 - Terror? No!

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September 11, 2001

- A radical change of thinking...
- ... we have to "Think the impossible"
 - ... and ask "What is next?"
- ... But, do we really do that?



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Vulnerability Assessment

The International Maritime Organisation (IMO)

The International Ship and Port Facility
Security (ISPS) Code
for securing ships and port facilities

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Vulnerability Assessment

- How vulnerable are the port?
- What is critical for the continuing operation of the port?
- What can be done to mitigate the risks?



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Vulnerability Assessment – "Regulations"

"Made in USA":

Container Security Initiative
(CSI)

Customs-Trade Partnership
Against Terrorism
(C-TPAT)

24-hour Rule

"Made in EU":

The TIR Convention

The ADR Convention

The RID Convention

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Made in USA

The Container Security Initiative

- Establish the criteria for security
- Screening of containers
- Inspections
- Intelligent containers
- *Management responsibility* and procedures/systems

C-TPAT

- Identification of *vulnerabilities* in the supply chain
- Vulnerabilities must be eliminated
- Goal: "To get faster through customs?"

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Made in EU

The ADR

- Dangerous goods
- Training
- Documentation
- Handling

- Risk Assessment*
- Security plan*
- Security procedures*
- Security training*

The RID

- Dangerous goods
- Training
- Documentation
- Handling

- Risk Assessment*
- Security plan*
- Security procedures*
- Security training*

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Road and Rail

Areas of interest:

- Custom procedures
- Pre-declaration of goods
- Risk assessment and control procedures
- X-ray screening of goods and containers
- Terminals and storage areas must have fences
- CCTV surveillance
- Special control procedures
- Secured parking areas
- Access control and -procedures
- Training of personnel
- Pre-employment screening
- Declaration of security and registration of customers

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Vulnerabilities

- The amount of goods too large....
- Time consuming
- Results in economic restraints (investment in hardware, operational costs, personnel, training and administration)
- Demands a lot on all participants...
(By the way.... Nobody adhere to the conventions...!)



Vulnerability Assessments

We focus on:
Security vulnerabilities /solutions
...In terms of security systems



Vulnerability Assessments

What about the largest vulnerability:

Management engagement?

Where is it?

And what is the role of management?



Vulnerability Assessment

- How do management use vulnerability assessments?
- Are they incorporated in the business strategy?
- In the security strategy?



”The Future”

Critical infrastructure... eg:

- Communication systems
- Transportation
- Oil and natural gas
- Food and water
- Public Health
- Emergency preparedness

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”The Future”

- Bridges / Tunnels
- Public buildings / government buildings
- Educational institutions
- National symbols



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”The Future?”

Must be considered:

- Management role and responsibility
- Business strategy = security strategy
- Business world = political world
- Business world = international

- Management have to think “international vulnerabilities...”