



*An Energy-Efficiency Workshop
and Exposition*

Lessons From The Pentagon

JOHN JESTER

DIRECTOR, PENTAGON FORCE PROTECTION AGENCY

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Don't Think It Will Not Happen

- Who would have imagined?
- Do you have insurance policies?



Expect The Unexpected

- Post-911 world
- Think outside the box
- Think like a screen writer
- Think of every process that depends on energy
- Imagine no grid power scenarios
 - For 48 hours
 - For 24 days



What Are You Protecting?

- Critical infrastructure (Mission Essential)
- Do you have single points of failure at critical locations?
- Don't forget supporting components such as fuel supply

(Note: all are energy dependent)



What Is The Threat?

- Terrorist
- Prankster / Hacker
- Radical environmentalist
- Insider



Vulnerability Assessment

- Based on the threat
- How and where are you vulnerable?
 - Is your back-up power all in one place?
 - Or is it connected through one or two key points?
- How would you take down your own system?



Layers Of Physical Security

"Defense In Depth"

Outer Layer (Barrier System)

- Fence
- Earth Berms
- Solid Wall
- Bollards
- Pop-up Barriers
- Landscaping
- CCTV

Interior Security

- Patrolling guards
- Interior access controls
- Access control system
- Special passes
- Integrated intrusion, detection, and CCTV

Outer Layer

Perimeter

Interior Security

Perimeter Security

- Access control systems
- Guards
- Building pass
- Visitor controls
- Integrated intrusion, detection, and CCTV



Barrier Systems

Access Denial And Delay Systems

- Door Bolts
- Bollards
- Crash Beams
- Crash Gates
- In-Ground Pop-Up Barriers





Barrier Systems

- **Bollards**
- **Fences**
- **Earth Berms**
- **Jersey Barriers**
- **Landscaping**



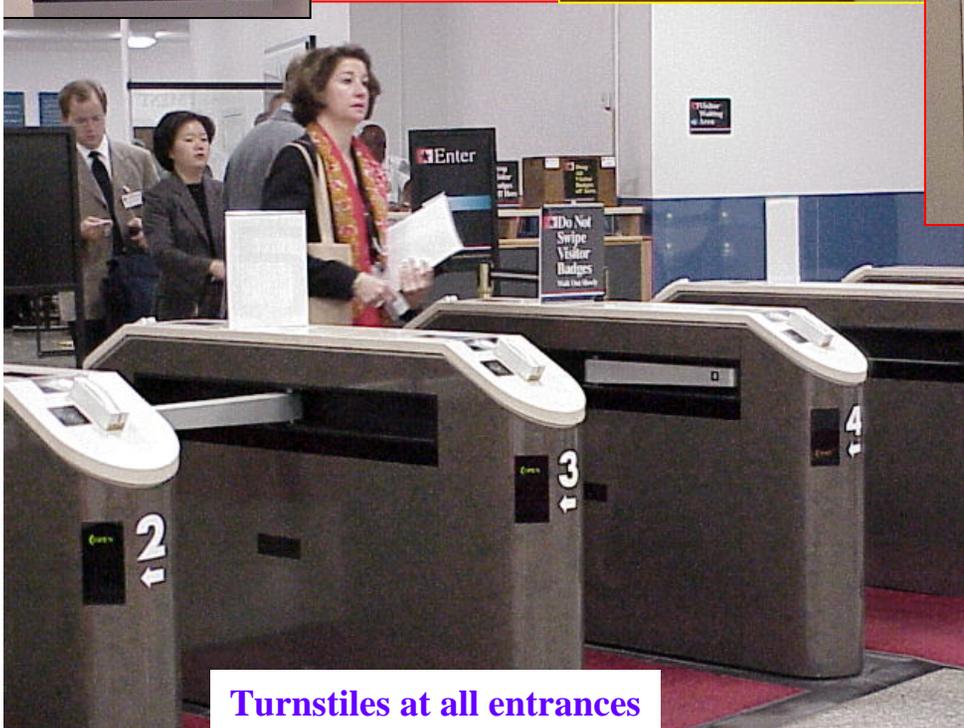
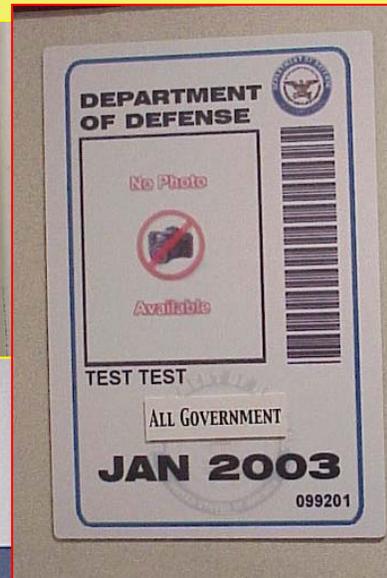


Entry And Circulation Control

Building passes for residents,
(Government and Contractors)
visitors, and tour groups



Keypads,
Card Swipes,
and door
locks for
Room Entry



Turnstiles at all entrances





Integrated Electronic Security Systems



Cameras inside and out of the Pentagon



Interior Detection System



Threat Annunciation occurs at DPS Communication Center



Magnetic Locks and Balance Magnetic Switches (BMS)



Deny, Alert, Delay, Respond

- Deny
 - As far away as possible
- Alert
 - Intrusion detection and CCTV systems
 - Security force
- Delay
 - Layers of security
 - Delay time should be longer than the response time
- Respond
 - Who? (internal guards, local police)



Information Security

- How secure are your facility documents?
 - Hard copies, electronic
 - From an adversary
 - From fire
 - Do contractors retain your specifications and drawings?
- Are there controls?
- Terrorists know how to use the Internet and acquire government reports



Energy Workforce: Friend or Foe?

- The critical element in a security program
- Are they briefed on your security?
- A security-conscious employee is your best asset.
- Employee screening
 - Company employee
 - Contractor
- Contractors



Security Plan

- Insert all elements of security in a plan
- Must have a written plan
- Exercise the plan's operational components
- Keep up-to-date



Pentagon Force Protection Agency

Questions?