

SESSION 3: Dam Vulnerabilities

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HOW CAN YOU BE HARMED? WHAT ARE WE ALLOWED TO SAY?

By:

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(Note: Many photos needed to be removed from original due to file size)



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Agenda

- **Overview of aggressor threats and tactics**
- **Overview of “dam” vulnerabilities**
- **Classification guide(s)**



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Aggressor: Definition

Aggressors are people who perform hostile acts against assets such as equipment, personnel and operations.



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Aggressor: Objectives

- Objectives
 - Inflict injury or death on people
 - Destroying or damaging facilities, property, equipment or resources
 - Stealing equipment, material or information
 - Creating adverse publicity



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Aggressor: Categories

- **Broad Categories**
 - **Criminals**
 - **Protesters**
 - **Terrorists**
 - **Subversives**
 - **Disaffected Persons**
 - **Disoriented persons**
 - **Disgruntled employees**



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Aggressor: Tactics

- Offensive Strategies
 - Moving Vehicle Bomb
 - Stationary Vehicle Bomb
 - Hand Delivered Device
 - Direct Fire Weapons
 - Forced Entry
 - Covert Entry
 - Visual Surveillance
 - Waterborne Contamination
 - Waterfront Attack
 - Planes



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Aggressor: Tools, Weapons and Explosives

- **Tools**

- Forced Entry Tools
- Vehicles
- Watercraft
- Surveillance Tools
- False Credentials

- **Weapons**

- Incendiary Devices
- Direct Fire Weapons
- Chemical, Biological and Radiological Agents

- **Explosives**

- Improvised Explosive Devices (IED)
- Vehicle Bombs



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Project Assets

Critical Project Assets:

- Spillway
- Embankment (Dam)
- Outlet Works
- Service Bridge
- Intake Structure
- Powerhouse/Powerplant
- Penstocks
- Surge Tanks
- Switchyard/Transformers
- Fish Ladder(s)
- Navigation Lock(s)



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Spillway





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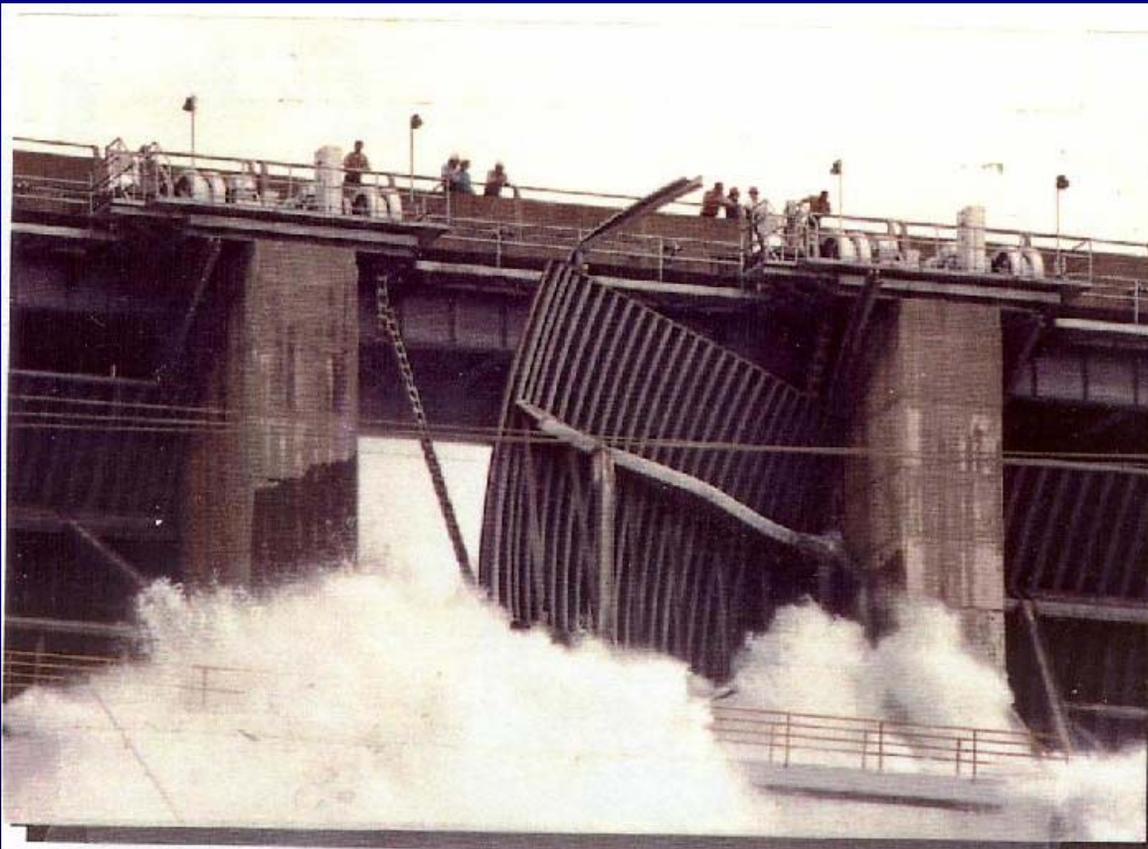
Spillway Gate Types





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Gate Failure



Spillway Gate No. 3 releases 40,000 cfs on day 1



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Spillway





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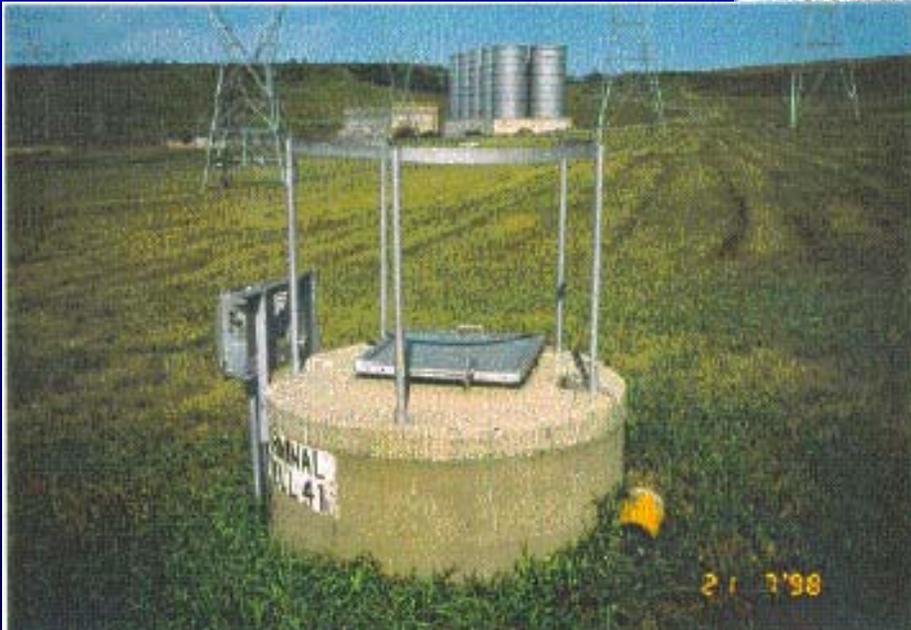
Embankment (Dam)





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Embankment (Dam)





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Outlet Works





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Service Bridge





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Intake Structure





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Powerhouse/Powerplant





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Powerhouse/Powerplant





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Generators/Turbines





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Penstocks





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Surge Tanks





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Switchyard/Transformers





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Fish Ladder





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Navigation Lock

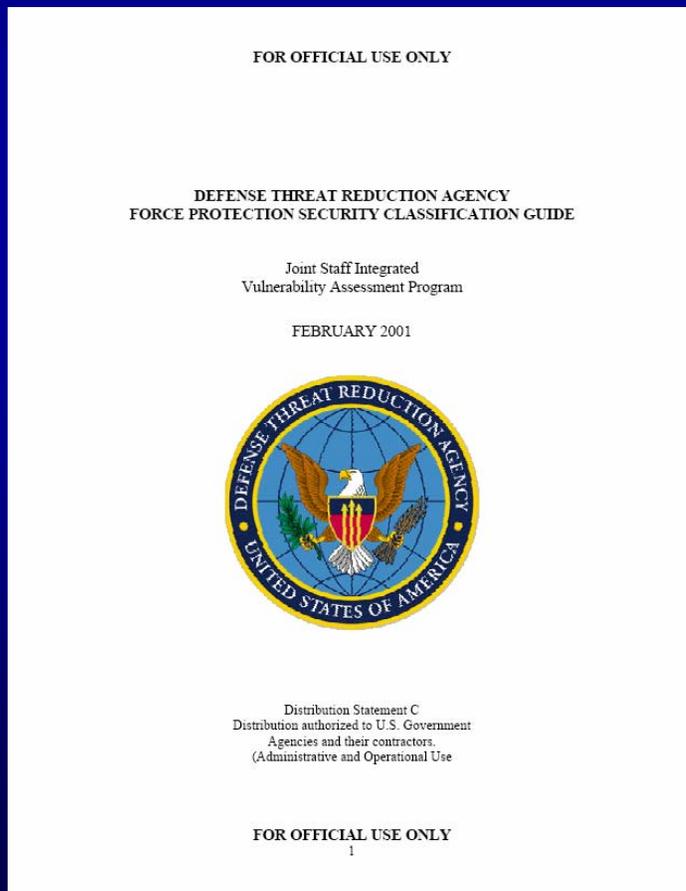




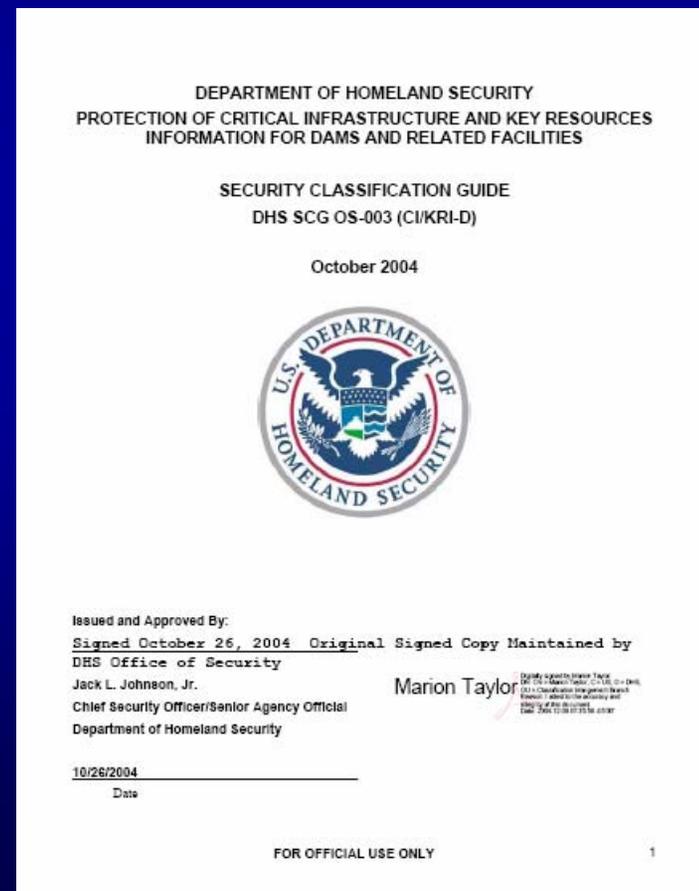
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What are we allowed to say?

DTRA Classification Guide



DHS CI/KR Classification Guide





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Infrastructure Security Truths

- **Today's terrorist can strike any place, any time, and with virtually any weapon**
- **Securing the infrastructure is a challenge of monumental scale and complexity**
- **This is an exceedingly complex mission that requires coordinated and focused effort from our entire society – Federal Government, State and Local Governments, the private sector and the American People**

Questions?

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