



**RIC 2009
Cyber Security
at Nuclear Facilities**

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Cyber Security at Nuclear Facilities

Threats x Vulnerabilities = Consequences

- Threats
 - Real and Expanding
- Vulnerabilities
 - Hardware, Software, Firmware
- Consequences
 - Denial, Corruption, Exfiltration, ??

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Cyber Security at Nuclear Facilities

Federal Government Activities

- Comprehensive National Cyber Security Initiative (HSPD-23)
- DHS/National Cyber Security Division
- FERC (Office of Reliability) and NERC
- DNI (Intelligence Community)
- Congressional Committees

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Cyber Security at Nuclear Facilities

NRC Activities

- Information Security Strategic Plan
- Computer Security Office (internal)
- Rulemaking (10CFR 73.54)
- Guidance (RG 5.71)
- Inspection / Oversight Program
- Research
- Interagency / International Collaboration
 - threats, vulnerabilities, events

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Cyber Security at Nuclear Facilities

Challenges

- Resources – Global demand for personnel
- Training – Staying “ahead of the curve”
- Coordination – Consistency among all players
- Situational Awareness – Dynamic environment
- Public Confidence – Requires strong regulator

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