

NRC Cyber Security Activities

Regulatory Status Update

Scott A. Morris
Deputy Director for Reactor Security
Division of Security Policy
Office of Nuclear Security & Incident Response

August 19, 2009

NRC Cyber Security - Bottom Line

- Significant progress made in last five years
 - Recruited Several New Staff
 - Updated Design Basis Threat (10 CFR 73.1)
 - Published Final Rule (10 CFR 73.54, 73.55)
 - Developed Regulatory Guide 5.71
 - Issued Generic Cyber Security Plan template
 - Established Cyber Security Assessment Team
 - Solidified Intergovernmental Coordination

- Several Challenges Remain

NRC Cyber Security Activities

- Rulemaking and Guidance
 - Limited scope
 - Safety, Security, Emergency Preparedness Functions only
 - Digital Communication Systems and Networks
 - Digital Instrumentation & Control Systems
 - Performance-based
 - Prevention of Radiological Sabotage
 - Programmatic
 - Defense-in-depth
 - Based on NIST Standards
 - Technical, Operational, and Management Controls

NRC Cyber Security Activities

- Licensing
 - Scope
 - Currently-licensed Operating Reactors
 - New Reactor Combined Operating License Applicants
 - Approach
 - Generic Cyber Security Plan (CSP) Template
 - Describe Program and Processes in the CSP
 - Details Available on Site for Inspection / Verification
 - Implementation Plans
 - Site-specific

NRC Cyber Security Activities

- Oversight
 - Inspection, Assessment, Enforcement
- Interagency Coordination
 - Federal Energy Regulatory Commission (FERC)
 - Systems Associated with Reliable Electricity Generation
 - North American Electric Reliability Corporation
 - Implements FERC Directives and Verifies Compliance
 - Department of Homeland Security
 - Cross-sector Coordination and Information Sharing
 - Public/Private Partnering

NRC Cyber Security Challenges

- Completing Regulatory Guidance Documents
- Conducting Concurrent Licensing Activities
 - New Reactor Combined Operating License Applications
 - Operating Reactors
- Establishing an Oversight Program
- Managing Human Capital
 - Recruiting, Hiring, Retaining Qualified Staff
 - Training
- Coordinating and Collaborating with Intergovernmental and International Partners