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UNITED STATES NUCLEAR REGULATORY COMMISSION
Protecting People and the Environment

Cyber Security

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May 30, 2013

Overview

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- Cyber Threat
- NRC Considerations
- NRC Cyber Security Roadmap
- Where We Are Today
- Key Messages

Cyber Threat

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- The Cyber Threat Landscape is Dynamic and Evolving
- Cyber Attacks Part of the Design Basis Threat (DBT)
- Types of Cyber Threats:
  - Outsider
  - Insider
  - Supply Chain

NRC Considerations

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- Safety – radiological sabotage, including chemical exposures and criticalities
- Physical Security – theft and diversion of material
- Information Security – loss of classified information and materials
- Materials Control & Accountability – theft and diversion of materials
- Emergency Preparedness – impacts to pubic health and safety in the event of an emergency

Cyber Security Roadmap

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- SECY 12-0088, June 25, 2012
- Provides an update on the status of the implementation of cyber security requirements for power reactor licensees and Combined License applicants
- The Roadmap outlines the approach for evaluating the need for cyber security requirements for the following four categories of the NRC licensees and facilities:
  - Fuel cycle facilities
  - Non-power reactors
  - Independent Spent Fuel Storage Installations
  - Byproduct materials licensees

Where We Are Today

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- Escalating Importance of Cyber Security
- National and International Efforts
- Impact on NRC Programs
- Not All Licensees Are the Same
- Lessons Learned from Power Reactors
  - Programmatic, Performance-Based Approach
  - Reliance on Standards and Best Practices
  - Importance of Governance Strategies
  - Cyber Security is a Process vs. Task

Key Messages

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- Shaping the Regulatory Landscape for the Future
- Senior Management Engagement
- Workforce Development

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Questions