U.S. Nuclear Regulatory Commission Efforts to Improve the Safety-Security Interface

International Atomic Energy Agency
Nuclear Security Symposium
1 April 2009

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Overview

- U.S. Nuclear Regulatory Commission Mission and Goals
- USNRC Efforts to Improve the Safety-Security Interface
- Considerations to Improve the Safety-Security Interface
USNRC Overview

➢ Mission and Goals

➢ USNRC’s responsibilities include regulation of:

➢ Commercial Nuclear Power Plants
➢ Research and Test Reactors
➢ Use of Radioactive Materials
➢ Nuclear Fuel Cycle Facilities
➢ Decommissioning of Facilities and Sites
➢ Transport, Storage and Disposal of Radioactive Materials and Waste

➢ Designed to protect both public and occupational workers from radiation hazards
Regulatory Framework

- Regulations
- Licensing
- Oversight
  - Inspection
  - Enforcement
Improving Safety-Security Interface

- Regulations and Guidance
- Regulatory Oversight
- Regulatory Processes
- Collaborative Efforts
Regulation and Guidance

- Revisions to 10 CFR Part 73 – Physical Protection of Plants and Materials
- 10 CFR 73.58 - Safety/security interface requirements for nuclear power reactors
- Draft Regulatory Guide DG-5021, Managing the Safety/Security Interface
Reactor Oversight Process

REGULATORY FRAMEWORK

NRC’s Overall Safety Mission

- PUBLIC HEALTH AND SAFETY AS A RESULT OF CIVILIAN NUCLEAR REACTOR OPERATION

Strategic Performance Areas

- REACTOR SAFETY
- RADIATION SAFETY
- SAFEGUARDS

Cornerstones

- INITIATING EVENTS
- MITIGATING SYSTEMS
- BARRIER INTEGRITY
- EMERGENCY PREPAREDNESS
- PUBLIC RADIATION SAFETY
- OCCUPATIONAL RADIATION SAFETY
- SECURITY

Cross-Cutting Areas

- HUMAN PERFORMANCE
- SAFETY CONSCIOUS WORK ENVIRONMENT
- PROBLEM IDENTIFICATION AND RESOLUTION

Public Health and Safety as a Result of Civilian Nuclear Reactor Operation

Cross-Cutting Areas:

- Human Performance
- Safety Conscious Work Environment
- Problem Identification and Resolution

Strategic Performance Areas:

- Reactor Safety
- Radiation Safety
- Safeguards

Cornerstones:

- Initiating Events
- Mitigating Systems
- Barrier Integrity
- Emergency Preparedness
- Public Radiation Safety
- Occupational Radiation Safety
- Security

NRC’s Overall Safety Mission

Reactor Oversight Process
Regulatory Processes

- Security Findings Review Panel
- Implementation of Increased Controls Working Group
- Rulemaking Process
Collaborative Efforts

- Nuclear Government Coordinating Council
- Nuclear Sector Coordinating Council
- Nuclear Security Working Group/Executive Steering Committee
- Public Meetings and Soliciting Public Comment
Considerations

- Formation of a Senior-Level Working Group
- Enhanced Coordination During Document Preparation
- Formation of Security Document Review Organization
Considerations

➢ Identifying or Adding Linkages between Safety and Security documents

➢ Develop Safety/Security Guide
Summary

- USNRC has taken measurable steps to improve safety-security interfaces both at the facilities it regulates and internally.
- IAEA is well positioned to make similar advances.
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For more information please see our website:
http://www.nrc.gov/security.html