



**Office of Nuclear Security and
Incident Response
Division of Security Policy**

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Outline

- Power Reactor security
- Fuel Cycle Security
- Materials Security

Power Reactor Activities

- Power Reactor Security Rulemaking
- Enhanced Weaponry
- Regulatory Guides
- Fitness for Duty Rulemaking
- Aircraft Impact Rule
- 10 CFR 73.21
- Security for New Reactors

Power Reactor Security Rulemaking

- Proposed Rule published on October 26, 2006
- The proposed rule amends 10 CFR 73.55, 73.56, 73.71, Appendix B, C, & G, and creates new 10 CFR Sections 73.18, 73.19, & 73.58
- 600 pages of comments
- Proposed Draft Final Rule text upon the publication of related Draft Regulatory Guidance

Enhanced Weaponry

- EPAAct of 2005 (AEA sec. 161A)
- DOJ/NRC Firearms Guidelines

Security Regulatory Guides

GUIDE NO.	TITLE	PUBLICATION OF DRAFT GUIDANCE
DG 5014	Physical Security *	December 2007
DG 5015	Training and Qualification	December 2007
DG 5016	Contingency Regulatory Guide*	December 2007
DG 5019	Reporting of Safeguards Events	July 2007
DG 5020	Enhanced Weapons	March 2008
DG 5021	Managing Safety Security Interface	July 2007
RG 5.66	Access Authorization for Nuclear Power Plants	December 2007
DG 50XX	Cyber Security	December 2007

Rulemaking Revising 10 CFR Part 26

- Rule scheduled to be published early 2008
- Additional measures to detect and deter substance abuse
- Transition from group work hour averaging to individual averaging
- Subpart K (Reactor Construction)

Proposed Aircraft Impact Rule

- Published Oct 3, 2007
- Public Meeting scheduled for November 15 in Rockville, MD
- Reduce the effects of a large commercial aircraft impact
- New Reactor Designs

10 CFR 73.21

- Proposed rule for Safeguards Information published in the Federal Register for comment Feb 11, 2005
- Draft final rule to Commission July 5, 2005
- Revised proposed rule published in Federal Register Oct 31, 2006
- Draft final rule with Commission

Construction Security - New Reactors

- Staff is developing recommendations for Access Authorization and Physical Protection Requirements for New Nuclear Power Plant Construction

Security Reviews for New Reactors

- Security reviews are part of Design Certification, Early Site Permit, LWA, and/or Combined Operating License (COL) Submittal
- COL Applications
- MOU with DHS

Fuel Cycle and Waste Security

- Orders
- Key Fuel Cycle Licensing Activities
- Rulemaking Activities

Orders

- Fuel Cycle Facilities Compensatory Measures, March, 2002
- Spent Fuel Facility Security, May, 2002
- Possession and Shipment of Spent Nuclear Fuel Security, October, 2002
- Fingerprinting Orders, April 30, 2007

Key Fuel Cycle Licensing Activities

- Shaw-Areva Mixed Oxide (MOX) Facility- security related plans currently under review
- New license applications anticipated

Rulemaking Activities

- Nuclear Materials Management and Safeguards System
- Geologic Repository Operations Area (GROA)
- Risk-informed rulemaking structure for CAT I, II, III Fuel Cycle Facilities
- Independent Spent Fuel Storage Installation (ISFSI)

Materials Security Activities

- GAO Investigation
- Action Plan Overview
- Materials Security Orders & Rulemakings
- DHS, DOE, NRC trilateral meetings

GAO Investigation

- Formed Bogus Company and Obtained NRC License
- Altered NRC License
- Two Suppliers Agreed to Sell Material
- Parallel Attempt to Obtain Agreement State License Aborted When Notified of Site Visit

Action Plan Overview

- External Review Panel
- Pre-Licensing Working Group
- Materials Program Working Group
- National Source Tracking System
- Web Based Licensing
- General Licenses and Outreach
- Agreement State Partnership

Policy and Regulatory Requirements

- Security Orders
 - Large Panoramic Irradiators Security Measures Order - June 6, 2003
 - Manufacturing and Distribution Licensees Security Measures Order - January 12, 2004
 - Transportation of Radioactive Material Quantities of Concern – July 19, 2005
 - Increased Controls for other types of materials licensees – November 2005

Fingerprinting Orders and Rulemakings

- Issued to:
 - panoramic irradiator licensees,
 - manufacturers and distributors, and
 - licensees who transport radioactive materials quantities of concern [RAMQC]
- Access to safeguards information (SGI)
- Unescorted access to materials
- Developing legally binding requirements for other materials licensees (Increased control licensees)

Materials Security Rulemakings

- National Source Tracking System
- Fingerprinting
- Physical security enhancements
- General License Restrictions
- Radioactive Material Quantities of Concerns (RAMQC)

National Source Tracking System

- Interim Database
- NSTS to track transactions of IAEA Category 1 and 2 sources from origin through changes of ownership, to disposition
- Rulemaking potentially expand to include category 3 sources

Physical Security Enhancements

- Codify requirements for access control, detection, assessment, response, delay, and information security
- Technical Basis under development

Fingerprinting

- Technical basis under development for materials and fuel cycle licensees

General License Restrictions

- Technical basis under development
- Staff is considering:
 - Amend regulations to limit amount of radioactive materials allowed under a general license
 - Specific license required for devices that contain quantities above 0.1 of IAEA Category 3
 - Registration required for devices that contain quantities above of IAEA Category 5

Radioactive Material Quantities of Concerns (RAMQC)

- Codify Orders to enhance transportation security issued to licensees that transport IAEA Category 1 quantities of material
- Enhanced rulemaking process (Increased stakeholders input)
- Technical Basis under development
- Public meetings to be held in January 08

DHS, DOE, NRC Trilateral Meetings

- Coordinate federal efforts for the security of radioactive material
- Current activities
 - Security inspections
 - Security assessment
 - Device security initiatives