

United States Nuclear Regulatory Commission Protecting People and the Environment

Briefing on Radiation Source Protection and Security **July 17, 2014 Mark Satorius Executive Director for Operations**

Accomplishments in Source Security

2003 - 2007	2008 - 2011	>2012 - 2014
 Security Orders 7 sets of orders covering a variety of modalities NSTS rule 	 NSTS deployment ISMP contracted 10 CFR Part 37 - proposed rule Cesium Chloride - 	 WBL deployment 10 CFR Part 37 final rule Procedures and
 1st Task Force report 	 Cestum Chlonde - Final Policy 2nd Task Force report 	Guidance LVS Deployment 3rd Task Force report

ISMP: Integrated Source Management Portfolio; **NSTS**: National Source Tracking System; **WBL**: Web-Based Licensing; **LVS**: License Verification System

Looking forward



• Continue to identify ways to improve source security



NRC Source Security Activities July 17, 2014 Brian Holian, Acting Director Office of Federal and State Materials and Environmental Management Programs (FSME)

Robust Source Security Program

- NRC and the Agreement States have created a strong regulatory framework
- Part 37 is an optimized mix of performance-based and prescriptive requirements
- Integrated and comprehensive program in place for management and control of radioactive sources









Integrated Source Management Portfolio (ISMP)



- Category 1 and 2
 sources
- Over 1,400 licensees and 80,000 sources
- Annual Inventory Reconciliation
- Deployed 2008



- Stores Category 1
 and 2 licenses
- Capability to serve as nationwide license repository for over 20,000 licenses
- Needed to support license verification
- Deployed 2012



- Automates verification checks using WBL and NSTS data
- Users regulators, government agencies, distributors/ licensees
- Deployed 2013

Coordinating with Federal and State Partners

- Radiation Source Protection and Security Task Force
- Department of Energy
- Department of Homeland Security
- Organization of Agreement States
- Conference of Radiation Control Program Directors

Government Accountability Office Audit Concerns



Source: GAO.



Source: GAO.





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Implementation of 10 CFR Part 37

July 17, 2014 Adelaide Giantelli, Branch Chief Source Management and Protection Branch FSME

Security Requirements

Administrative

- Access authorization and background investigations
- License verification
- Plans, training and self-assessments
- Document retention and information protection



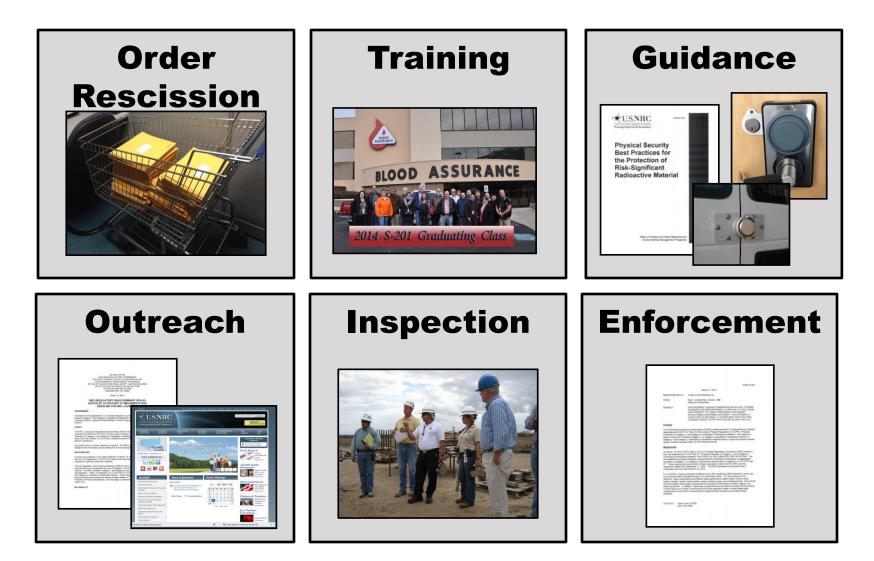


Security During Use

- Monitor, detect, assess and respond
- Transportation security
- Portable and Mobile Device Controls
- Maintenance and testing of physical protection equipment

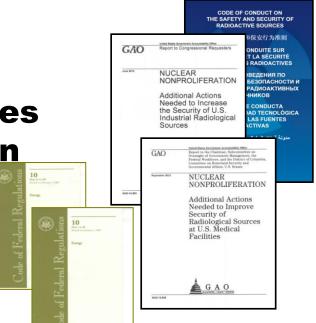


Implementation of 10 CFR Part 37



Looking Forward

- Continue outreach with Agreement States and Licensees
- Ensure consistent identification and disposition of Part 37 violations
- Continue support and participation in international initiatives on source security
- Evaluate operational experience from first 2 years of Part 37 inspection data





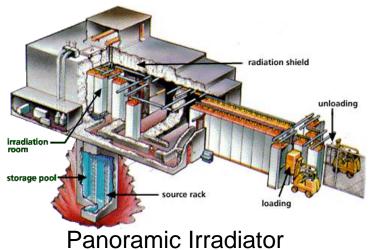




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Regional Perspective on Radiation Source Security July 17, 2014 Randolph Ragland, Team Leader Part 37 Team, Region I

Examples of Category 1 Quantities





Gamma Knife



Self-Shielded Irradiator

Self Shielded Irradiator, if Cs-137 Activity is > 2,700 Curies

Examples of Category 2 Quantities



Radiography



Self-Shielded Irradiator



Well Logging



Some fixed gauges

Calibrator

Materials Security Inspector Qualifications

- Qualified safety inspector
- **Training**
 - New security inspectors:
 - Materials Control, Security Systems & Principles (S-201) Course, provided by the Technical Training Center
 - Gap training provided by the Regions
- Observe Inspections (optional)
- Branch Chief approval

Inspections

- Unannounced
- Frequency based on risk, and is the same as the safety inspection
- Performance-based review of physical security







Initial Part 37 Findings

- Overall, good performance
 - Licensees had existing security programs in place
- Challenges
 - Access authorization procedures
 - Security plan and implementing procedures
- Majority of violations have minor to low security significance