



U.S.NRC

UNITED STATES NUCLEAR REGULATORY COMMISSION

Protecting People and the Environment

Integrating MC&A and Physical Security – A Regulatory Perspective

Suzanne Ani

Office of Nuclear Material Safety and Safeguards

U.S. Nuclear Regulatory Commission

WINS Workshop on Nuclear Material Control and Accountancy in Support of Nuclear Security
Vienna, Austria. 17 June 2015



Overview

- U.S. Nuclear Regulatory Commission
- Regulatory Functions
- Cooperation and Communication



U.S. Nuclear Regulatory Commission

Mission

The NRC licenses and regulates the United States' civilian use of radioactive materials to protect public health and safety, promote the common defense and security, and protect the environment.



NRC Strategic Goals

- To ensure the SAFE use of radioactive materials
- To ensure the SECURE use of radioactive materials



U.S. Nuclear Regulatory Commission

- **Ensures secure use of nuclear materials by regulating licensees'**
 - Material control and accounting systems for nuclear materials
 - Security programs
- **Title 10, Code of Federal Regulations (CFR)**
 - Part 73, Physical Protection
 - Part 74, Material Control & Accounting (MC&A)



U.S. Nuclear Regulatory Commission

- Office of Nuclear Security and Incident Response (NSIR)
 - Security (physical, personnel, information)
 - Emergency preparedness and response
- Office of Nuclear Materials Safety and Safeguards (NMSS)
 - Safety (Operations, Radiation, Criticality)
 - MC&A, International Safeguards



Two Program Offices, Shared Goal

- Prevent and detect theft, diversion or misuse of nuclear materials
- Physical Protection
 - Protect against external and internal threats to facilities and nuclear materials
- MC&A
 - Deter and detect theft or diversion or misuse of nuclear material primarily by the insider



Regulatory Functions

- Regulations and Guidance
- Licensing
- Oversight



Regulations and Guidance

- Regulations
 - Graded approach
- Rulemaking
 - Working Groups
- Guidance Development
 - Standard Review Plans
 - Regulatory Guides



Licensing

- Staff review
 - New applications
 - Amendments, renewals, transfers
- Physical protection systems
 - 10 CFR Part 73 requirements
- MC&A program
 - 10 CFR Part 74 requirements
- Review interfaces



Oversight

- Inspection
 - Training, observations, findings
- Enforcement
 - Significance, Disposition
- Incident Response
 - Significant events regarding missing material, anomalies or discrepancies



Continuous Improvement

- Communication
- Inspections
- Training



Conclusion

- Material control and accounting and physical protection play essential roles in protecting nuclear material
- Cooperation and communication promotes effective interface to accomplish regulatory mission