Overview

- Unwanted/Orphan Sources
- Import/Export of Sources
- National Source Tracking System
- Enhanced Security Activities
Unwanted/Orphan Sources

- Trilateral Initiative between the U.S. NRC, Mexico, and Canada.

- Department of Energy’s Offsite Source Recovery Program.

- Conference of Radiation Control Program Directors’ National Orphan Radioactive Material Disposition Program.
Import/Export
Part 110 Regulations

• Rule conforms NRC’s export/import regulations to the Code of Conduct
• Requires specific (instead of general) licenses to export or import Code of Conduct Category 1 and 2 radionuclides
• Different from the Code, the rule covers bulk material
National Source Tracking System

• Interim Database, begun in 2003 and updated annually, meets the goal of the Code of Conduct for a national registry
• NSTS expands capability to actually track transactions on a web-based system
• Enables tracking of Category 1 and 2 sources from IAEA Code of Conduct, from origin through changes of ownership, to disposition
Control and Security of Radioactive Sources

• NRC is using a risk informed graded approach for enhanced security measures
  - Nuclear power plants to small materials licensees
  - Identified sources that warrant greatest control
  - Coordinated with states, other agencies, licensees
  - Enhanced tracking of radioactive sources
  - Implementing IAEA Code of Conduct
  - Issued advisories for National Special Security Events
Enhanced Security Activities

• 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
Increased Controls

• Objectives
  - Enhance control of material to prevent unauthorized access for malevolent use of material or mitigate consequences

• Emphasis
  - Prompt enhancements
  - Practical measures
Increased Controls

Basis

- Prevent theft/diversion for malevolent use
- Prompt detection, assessment, and reporting
- Prompt Local Law Enforcement Agency (LLEA) response
- Confirmation of shipping/receiving
- Additional security for sources in transit
- Changes in the threat environment may indicate additional needs
Increased Controls

• Security Assessments of materials licensees have been performed
  - Irradiator
  - Manufacturing and Distribution
  - Medical facilities
  - Universities
  - Radiographers and Well Loggers

• Increased Controls informed by results of Security Assessments
Increased Controls

• Licensees that possess sources greater than the quantities Category 2 (including aggregated quantities)

IC-1 Control Access
IC-2 Monitor, Detect, Assess, and Respond
IC-3 Transportation Security
IC-4 Additional controls to secure portable and mobile devices
IC-5 Document Retention
IC-6 Information Protection