



U.S. Radioactive Materials Security Developments

June 2008

**Office of Federal and State Materials and
Environmental Management Programs
and
Office of Nuclear Security and Incident
Response**

Overview

- **Material Security Enhancements**
- **Energy Policy Act Activities**
- **GAO Activities**

A Changing Environment

- **National Security is dominant concern**
- **Obtain new balance between**
 - **Security**
 - **Operational Initiatives, and**
 - **Safety Activities**
- **Applied a risk-informed graded approach to significantly enhance materials security**

Increased Security Measures

- **Security Zone**
- **Control Access**
- **Monitor, Detect, Assess, and Respond**
- **Transportation Security**
- **Additional control to secure portable & mobile devices**
- **Liaison with Local Law Enforcement Agencies**
- **Background Investigations & Fingerprinting**
- **License Verification**
- **Document Retention**
- **Information Protection**
- **Orders/Legally binding requirements to more than 3000 licensees**

Orders Issued

- **Large Panoramic Irradiators Security Measures**
- **Manufacturing and Distribution Licensees Security Measures**
- **Transportation of Radioactive Material Quantities of Concern**
- **Orders for Increased Control Measures for other types of sources by categories of licenses**
- **Fingerprinting Orders**



Security Inspection Results

- **All 1st year Increased Control inspections completed**
- **NRC Information Notice (IN) 2007-16 issued May 2007**
- **Since IN 2007-16 was issued, ~ 50% of the NRC inspections performed resulted in violations**
- **Licensees misinterpreted or incompletely implemented requirements**
- **Common theme: failure to properly document actions or programs when implementing the Increased Controls.**
- **Examples of violations include:**
 - **Monitoring, Detecting, Assessing and Responding**
 - **Controlling Access:**
 - **Information Protection requirements**



Radiation Source Security and Protection Task Force

Combined effort: 14 Federal Agencies and 2 State organizations

Reports to U.S Congress: 2006, 2010

Four Active Subgroups:

- **Radiation Sources**
- **Cesium Chloride**
- **Alternative Technologies**
- **Public Education**

National Academies Study on Source Use and Replacement

- **Report issued February 2008**
- **Evaluated the uses of risk-significant sources that could be replaced with an equivalent process or that would pose a lower risk if an accident or attack occurs**
- **Recommendations will serve as an important point and are being considered along with others from a number of different sources**



National Source Tracking System

- **System tracks transactions of Category 1 and 2 sealed sources among NRC and Agreement State licensees; includes DOE sources**
- **Designed and developed in conjunction with stakeholders**
- **Initial Deployment 12/2008**
- **Licensees begin using 1/31/09**
- **Proposed rule - expansion to smaller sources**

Web-Based Licensing

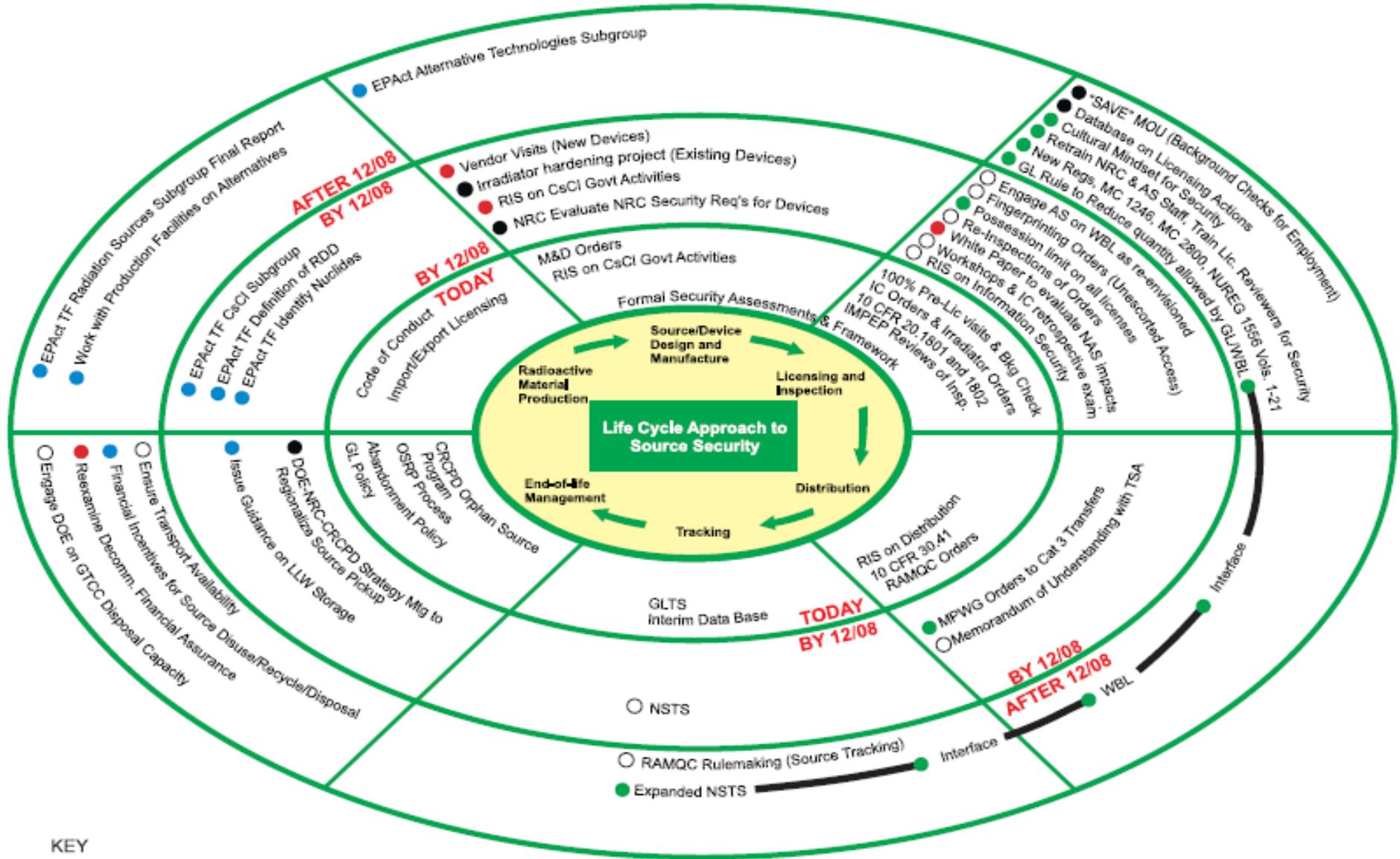
- **Replacement of License Tracking System used for Materials Licensing**
- **WBL development in coordination with Agreement States – Working Group**
- **Proceeding with procurement**

2007 GAO Investigation

- **Applied for and Obtained NRC License**
- **Altered NRC License**
- **Contacted Suppliers to Sell Material**
- **Parallel Attempt to Obtain Agreement State License Aborted When Notified of Site Visit**

Action Plan Overview

- **Immediate Actions**
- **Independent External Review Panel**
- **Pre-Licensing Working Group**
- **Materials Program Working Group**
- **NSTS and WBL**
- **GL Rulemaking**



KEY

- Energy Policy Act Task Force
- Government Accountability Office/Senate Follow-up
- National Academies of Sciences/DSB
- Government Coordinating Committee/DHS & Trilaterals
- NRC - INITIATED