



# U.S. National Source Tracking System (NSTS) Update

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**U.S. Nuclear Regulatory Commission**

Nondestructive Testing Management Association, Inc.

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# Overview

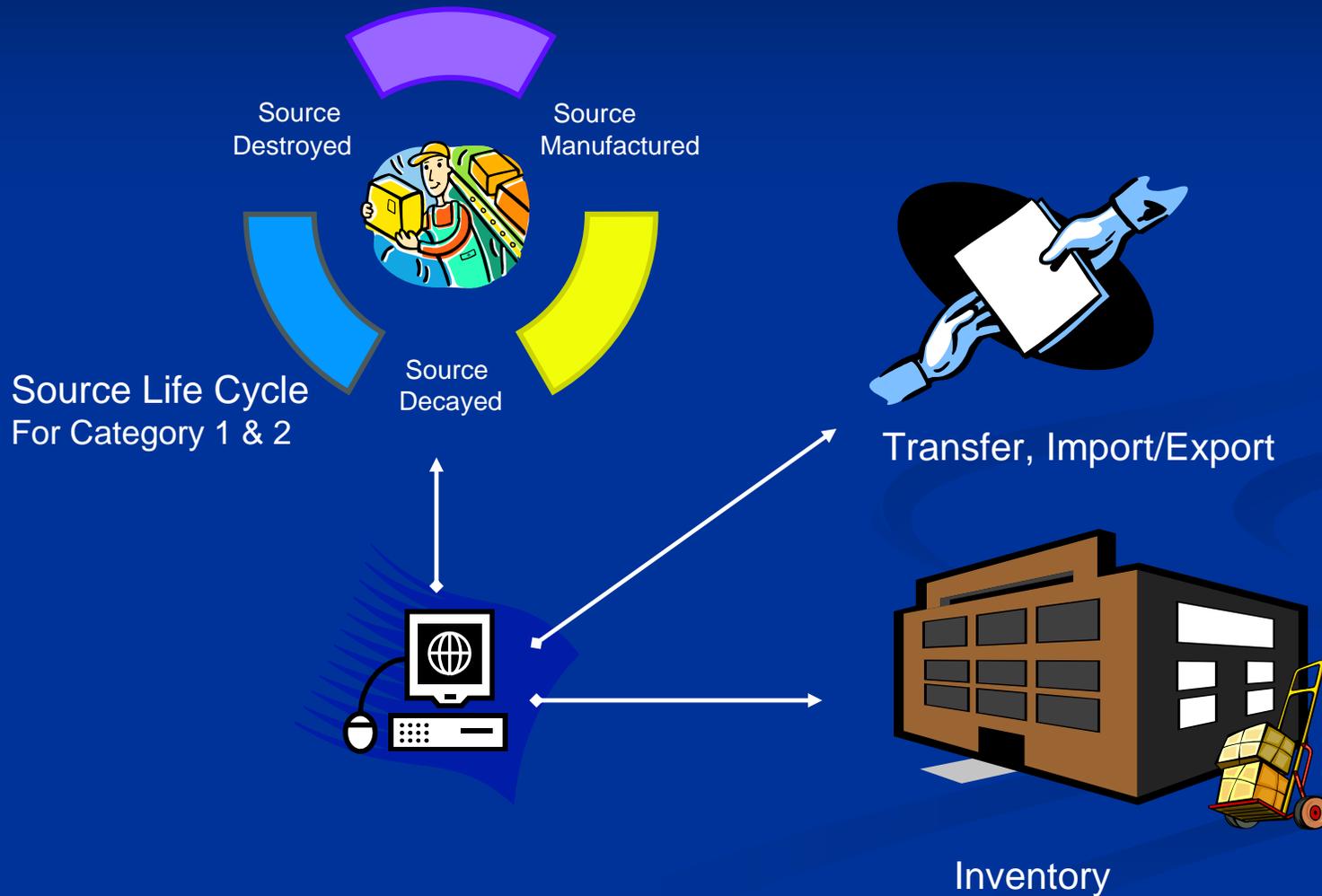
- The security and control of radioactive sources has been significantly enhanced
- Integrated and comprehensive program in place for management and control of radioactive sources
- Continuing to work closely with domestic and international partners to improve

# Background

- International/Domestic commitments
- Stakeholder coordination
- System deployed December 2008
- Regulations in 10 CFR 20.2207



# What is NSTS?



# Credentialing Process for Access to NSTS



**Step 2**  
Online application is  
reviewed and approved

**Step 3**  
A paper identity proofing packet  
is mailed to the applicant

**Step 4**  
The paper packet is completed by  
the applicant, notarized, and  
mailed back

**Step 5**  
The paper packet and online application  
are reviewed, anomalies are resolved with  
the applicant, employment is verified and  
the enrollment is approved

**Step 6**  
A smart card and reader are  
mailed to the applicant

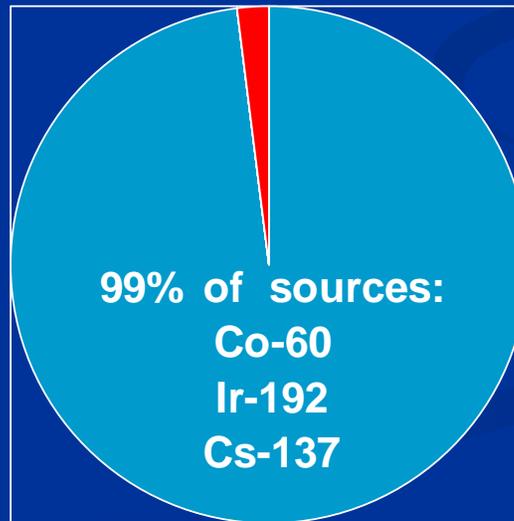


**Step 7**  
Reader is installed and  
used to download the  
applicant's certificate to  
the smart card

**Note:** Entire process is expected to take less  
than 30 days with prompt applicant responses

# NSTS Overview

- Reporting by approximately 1,400 licensees with over 60,000 sources
- Over 1,000 transactions/week
- User training
- System easy to use



# Where We Are Today

- Completed Annual Inventory Reconciliation
  - RIS-09-15 “NSTS Annual Inventory Reconciliation”
- Increasing online usage



**National Source Tracking System** [NRC Home](#) | [FSME Home](#)

**U.S. Nuclear Regulatory Commission** Federal and State Materials and Environmental the office of nuclear material safety and safeguards logo

Today's Date: 10/27/2008  
User ID: MANU\_DISP\_WB Licensee user (license number: 221-554-391 ) [Print](#) | [Logout](#)

**NSTS Main Menu** [Help](#)

\* indicates required field

You are an NSTS licensee user with one or more licenses. Please select a license and click Continue.

License Number \* :

**Source Management**

- [View Own Inventory](#)
- [Update Source Information](#)

**Transfer Management**

- [Transfer Sources \(Domestic\)](#)
- [Receive Sources \(Domestic\)](#)
- [Export Sources](#)
- [Receive Imports](#)
- [Update/Cancel Source Transfer](#)
- [Update/Cancel Source Export](#)

Search Criteria:

The wildcard (\*) can appear at the start, middle or end of the search text.

Make:  Device Make:

Model:  Device Model:

Serial Number:  Device Serial Number:

Source ID:  Alternate Source ID:

Isotope:  Operator:  Activity:  Unit:

Include Sources Below Threshold:  Yes

[Set current sort](#)

Filters allow for quick search of sources in own inventory

Choose source to transfer

20 items found, displaying 1 to 10.  
[\[First/Prev\]](#) 1, 2 [\[Next/Last\]](#)

Select	Make	Model	Serial Number	Source ID	Alternate Source ID	Isotope Name	Activity	Activity Unit	Activity Date	Source Status
<input type="checkbox"/>	Amersham Health	RAM-TYPE FOIL	AH-010808-1	23		Radium-226	653.0	Ci	01/01/2008	Above Threshold
<input type="checkbox"/>	Amersham Health	RAM-TYPE FOIL	AH-010808-2	24		Radium-226	650.0	Ci	01/14/2008	Above Threshold
<input checked="" type="checkbox"/>	Amersham Health	RAM-TYPE FOIL	AH-010808-3	25		Radium-226	65.0	Ci	01/14/2008	Above Threshold
<input type="checkbox"/>	Amersham Health	RAM-TYPE FOIL	AH-010808-4	26		Radium-226	650.0	Ci	01/01/2008	Above Threshold
<input type="checkbox"/>	Amersham Health	RAM-TYPE FOIL	AH-010808-5	27		Radium-226	650.0	Ci	01/01/2008	Above Threshold
<input type="checkbox"/>	Amersham Health	RAM-TYPE FOIL	AH-010808-6	28		Radium-226	650.0	Ci	01/14/2008	Above Threshold
<input type="checkbox"/>	Avis Laboratories	M-650	AL-M650-2	32	AL-1	Thulium-170	900.0	Ci	01/10/2006	Above Threshold
<input type="checkbox"/>	Avis Laboratories	M-650	AL-M650-3	33	AL-1	Thulium-170	0.024324324	Ci	01/01/2008	Above Threshold
<input type="checkbox"/>	Avis Laboratories	M-650	AL-M650-4	34	AL-1	Thulium-170	900.0	Ci	01/10/2006	Above Threshold
<input checked="" type="checkbox"/>	Campbell Industries	X-360	CI-X-002	36		Americium-241	420.0	Ci	05/02/2007	Above Threshold

# Change Control Board

- Members: NRC, Industry, Agreement States
- Maintenance Releases: 3 times/year
- Objectives: To determine which changes are included in each NSTS maintenance release
- Your input is valuable!
  - Feedback: NSTS Website suggestion box, Blog Comments, Help Desk

# Next Steps

2012

2011

2010

ISMP

Version 2

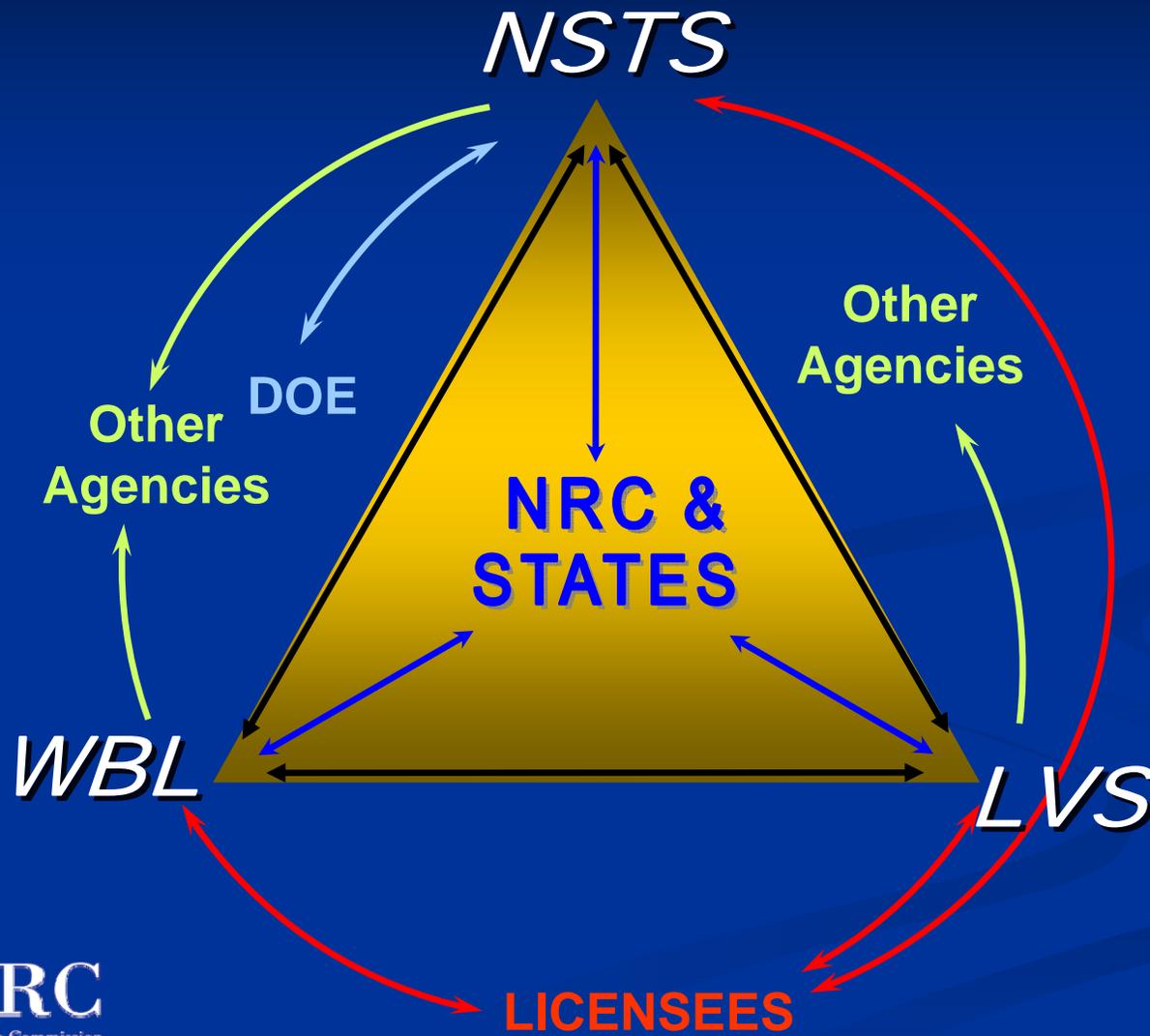
Certificate Renewals

Increased Online Usage

Ensure Integrity of Data

Enhanced Communication & Outreach

# Integrated Source Management



# NSTS Expansion

1. April 11, 2008: Proposed rule published for public comment to expand NSTS to **1/10 of Category 3**
2. June 10, 2009: Final rule provided to Commission to expand NSTS to **Category 3**
3. June 30, 2009: Commission was unable to reach a decision => **no expansion at this time**



# NSTS Success

Having up-to-date accounting of all  
Category 1 and Category 2 sources

How you can contribute to the Success:

- Report your transactions promptly (by the next business day at the latest)
- Report your transactions correctly
- Use the NSTS online for reporting

# Comments & Suggestions

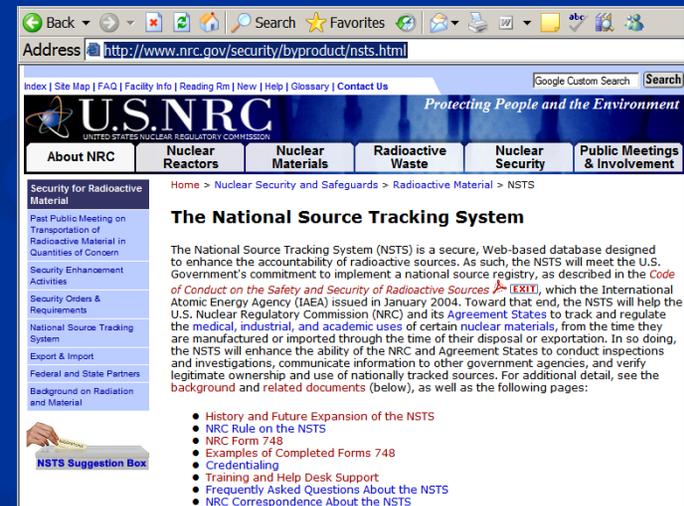
## NSTS Website and Blog:

<http://www.nrc.gov/security/byproduct/nsts.html>

## NSTS Help Desk:

[NSTS.Help@nrc.gov](mailto:NSTS.Help@nrc.gov)

1-877-671-6787



The screenshot shows a web browser window displaying the NRC website. The address bar shows the URL <http://www.nrc.gov/security/byproduct/nsts.html>. The page header includes the NRC logo and the tagline "Protecting People and the Environment". The main navigation menu includes links for "About NRC", "Nuclear Reactors", "Nuclear Materials", "Radioactive Waste", "Nuclear Security", and "Public Meetings & Involvement". The page content is titled "The National Source Tracking System" and provides a detailed description of the system's purpose and functionality. A sidebar on the left contains a list of links related to radioactive material security. At the bottom of the page, there is a section titled "NSTS Suggestion Box" with a list of links for user feedback.

Home > Nuclear Security and Safeguards > Radioactive Material > NSTS

### The National Source Tracking System

The National Source Tracking System (NSTS) is a secure, Web-based database designed to enhance the accountability of radioactive sources. As such, the NSTS will meet the U.S. Government's commitment to implement a national source registry, as described in the *Code of Conduct on the Safety and Security of Radioactive Sources* (IXII), which the International Atomic Energy Agency (IAEA) issued in January 2004. Toward that end, the NSTS will help the U.S. Nuclear Regulatory Commission (NRC) and its Agreement States to track and regulate the medical, industrial, and academic uses of certain nuclear materials, from the time they are manufactured or imported through the time of their disposal or exportation. In so doing, the NSTS will enhance the ability of the NRC and Agreement States to conduct inspections and investigations, communicate information to other government agencies, and verify legitimate ownership and use of nationally tracked sources. For additional detail, see the background and related documents (below), as well as the following pages:

- History and Future Expansion of the NSTS
- NRC Rule on the NSTS
- NRC Form 748
- Examples of Completed Forms 748
- Credentialing
- Training and Help Desk Support
- Frequently Asked Questions About the NSTS
- NRC Correspondence About the NSTS

# Thank you