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Texas Radiation Regulatory Conference  
September 2, 2010

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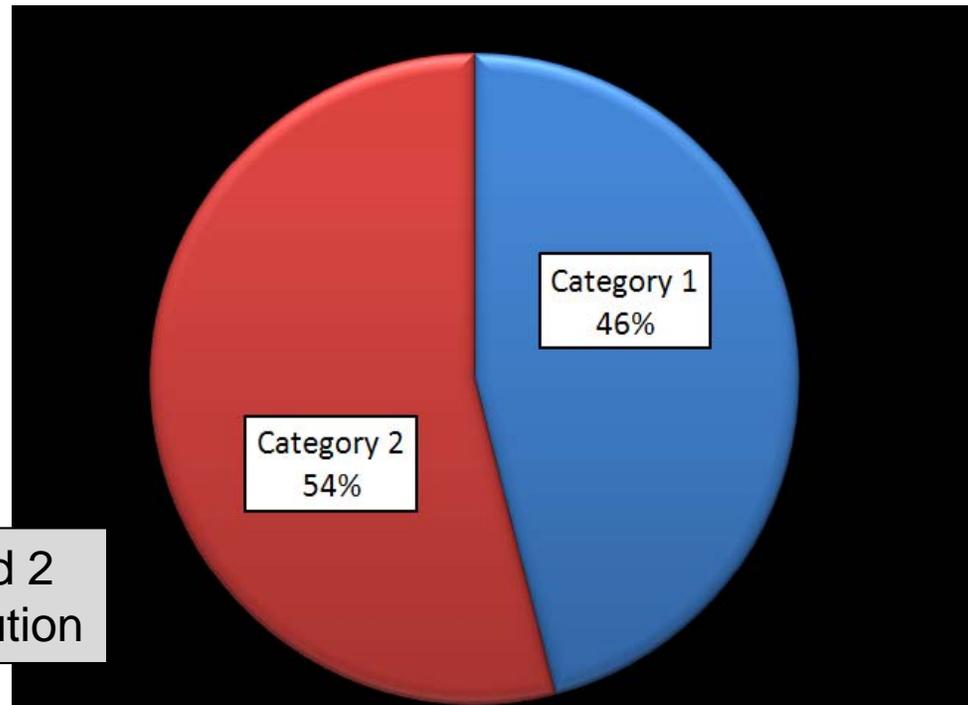
Angela Randall  
NSTS Project Manager, USNRC

# Overview

**NSTS**  
**Objective**

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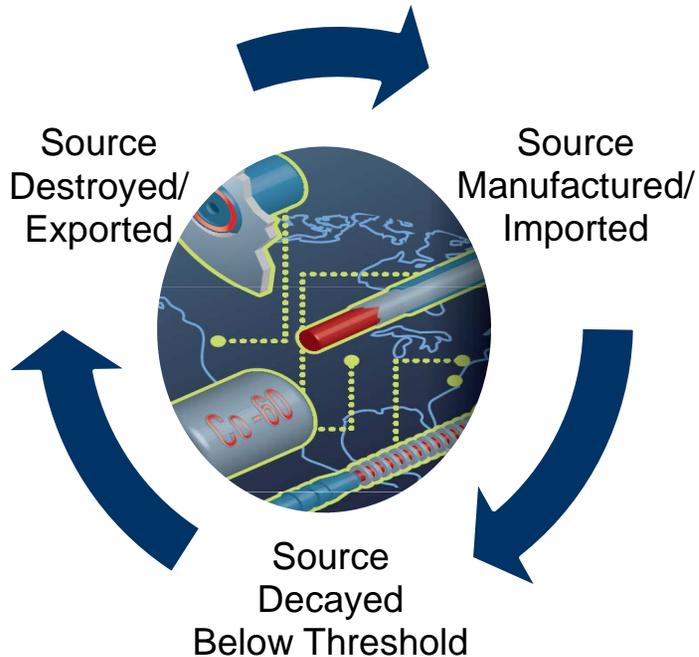
Up-to-date accounting of all Category 1 and Category 2 sources in the U.S.



Category 1 and 2  
Source distribution

# What is NSTS?

## Source Life Cycle



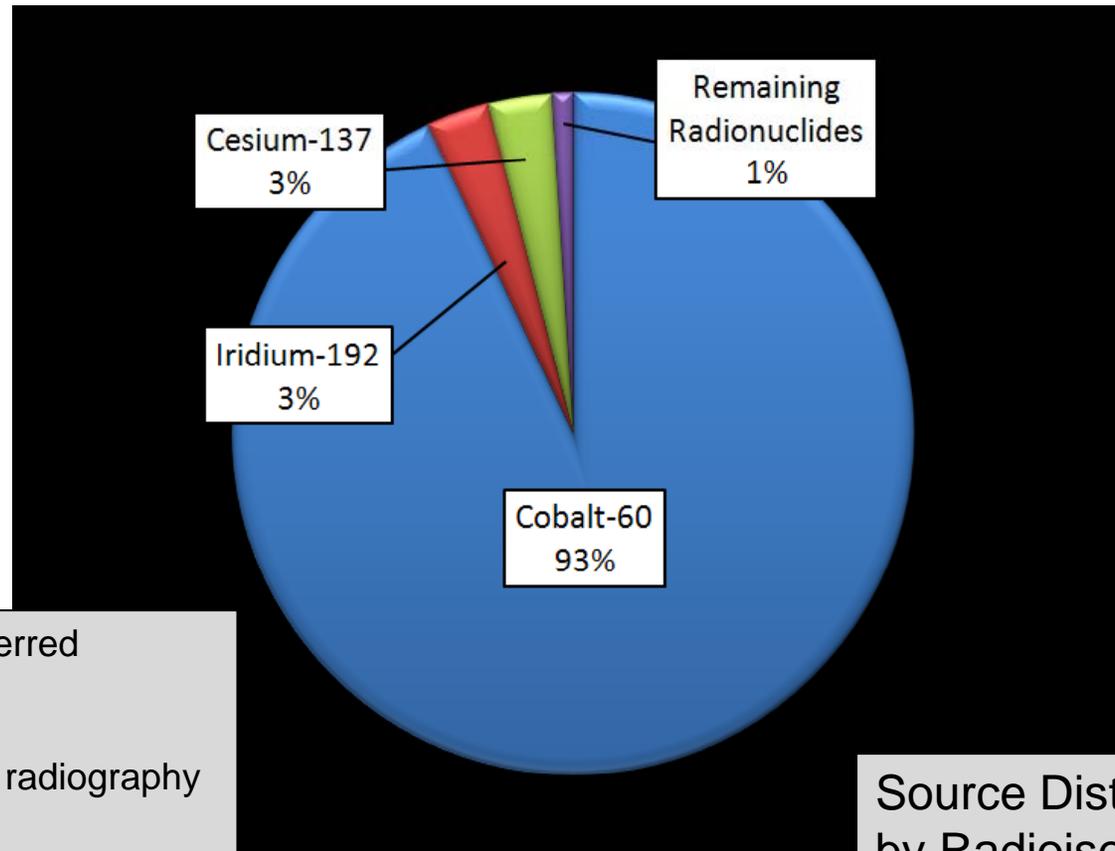
**Transaction Reporting  
Transfer, Receipt,  
Import, Export**



**Annual Inventory  
Reconciliation**

The relevant regulations that discuss the NSTS are found in 25 TAC § 289.202(HHH) and state that each licensee who manufactures, transfers, receives, disassembles, or disposes of a nationally tracked source must complete and submit a National Source Tracking Transaction Report.

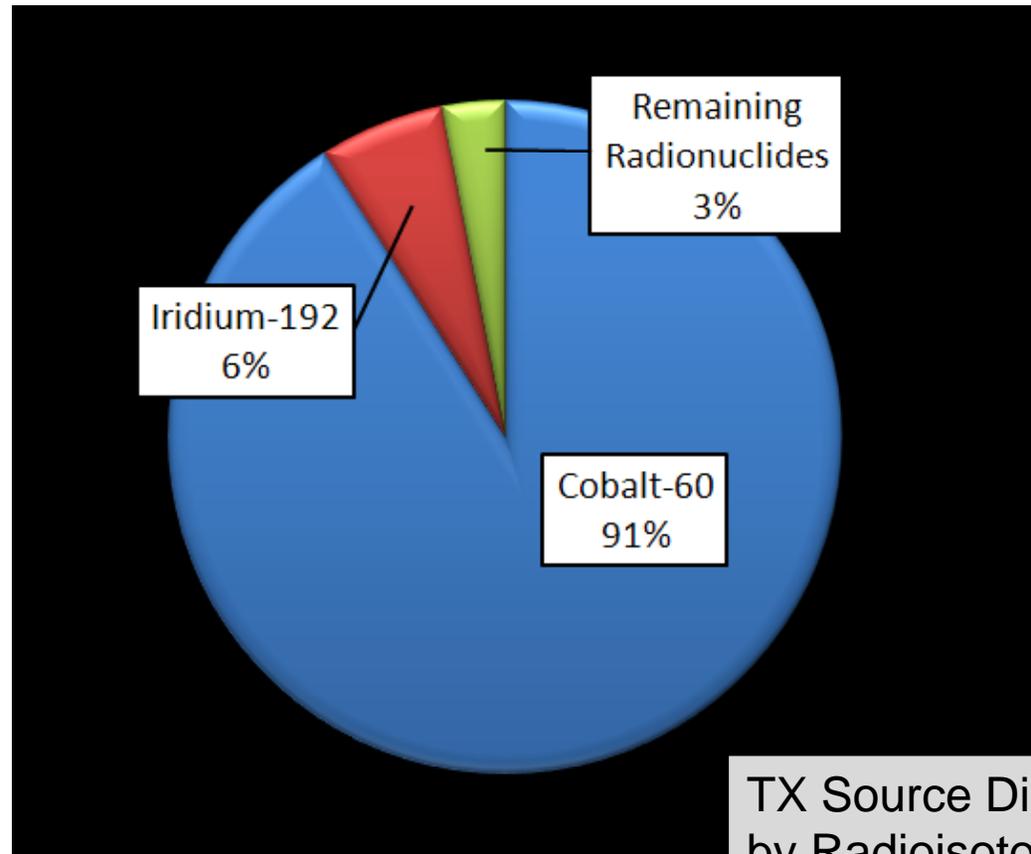
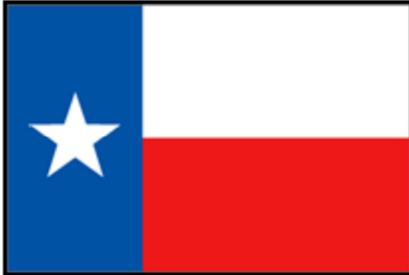
# Where We Are Today



- Iridium-192 is the most transferred source in NSTS
- Current focus is on industrial radiography sources (3%)

Source Distribution by Radioisotope

# Where Texas is Today



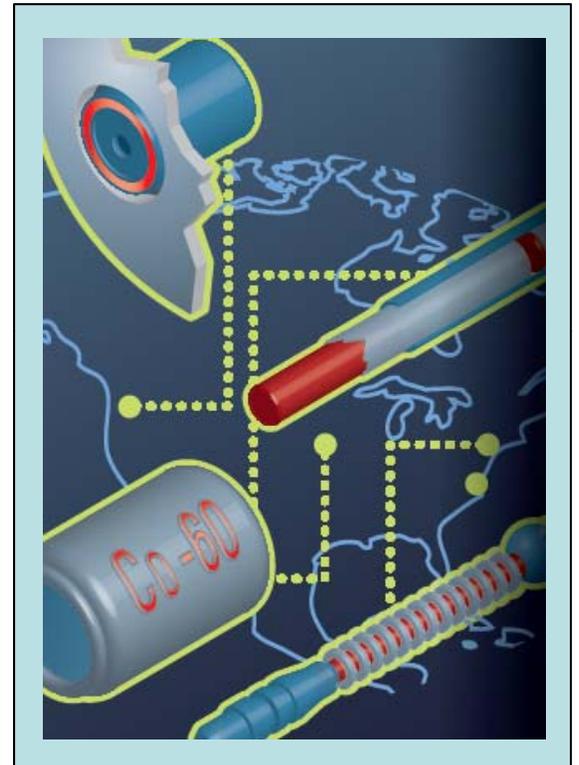
TX Source Distribution by Radioisotope

# Focus on NSTS To-Date

- Extensive outreach efforts to encourage online usage
- Highest volume licensees reporting through electronic means
- Extensive effort to ensure data integrity
- Credentialed more than 800 users
- Licensees confirmed their source inventories in January 2010
- Five Maintenance Releases deployed

# NSTS Reporting Issues

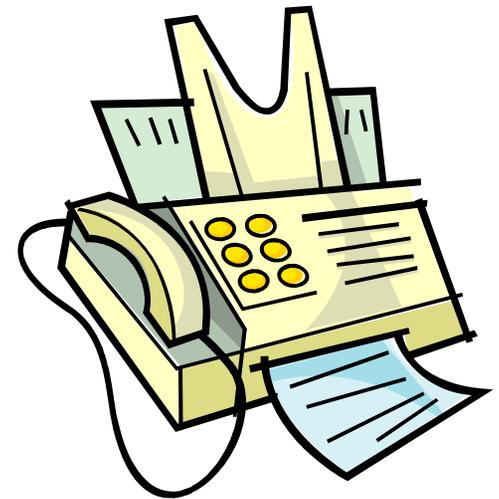
- Failure to report transactions
- Inaccurate reporting of import/export transactions
- Reporting transactions for work at temporary job sites
- Reporting multiple sources as a single source
- Reporting transactions of below threshold sources
- Decay calculation discrepancies





# Issues with Faxing Form 748

- Faxes submitted by licensees are not always received
  - Static on fax line resulting in scrambled text, partial receipt of fax (cut off), or no receipt at all
  - Faxes sent with the paper upside down
- Use a cover sheet so the NSTS Help Desk has a way to contact you to let you know there is a problem with your transaction submission
- Request confirmation from the help desk – if not received, follow up! The Help Desk may not have received your report!



# Forward Focus

- New Form 748
- Intuitive design for simple entry
- Ability to save data
- Email capability
- Individual forms for single transactions
- Long form for multiple transaction types

This is the short form of the National Source Tracking Transaction Report. It includes sections for Licensee Information, Transaction Date, Transaction Information, Transaction Type, and Preparer Information. The form is designed for simple entry and includes a 'Submit by Email' button.

This is the long form of the National Source Tracking Transaction Report. It includes sections for Licensee Information, Transaction Date, Transaction Information, Transaction Type, Preparer Information, and Source Transfer Data. The form is designed for multiple transaction types and includes a 'Submit by Email' button. A warning at the bottom states: 'WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECTS. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.'



# Forward Focus

- Maintenance release 1.3 coming in September
  - Group selection of sources for export
  - Bulk entry for manufacturing
  - Alphabetizing the make/model drop down list
  - Auto-archiving of below threshold sources



# Forward Focus

- Planning for Annual Inventory Reconciliation
  - Validating NSTS contacts and RSOs
  - New process for licensees without online access
  - NSTS Improvements:
    - Removing “Source ID” from report
    - Including Initial Activity and Initial Activity Date

Official Use Only - Security Related Information

Version 1.2

### National Source Tracking System

U.S. Nuclear Regulatory Commission Federal and State Materials and Environmental Management Programs

Today's Date: 11/03/2009 Licensee user (license number: 221-554-465) Back to Main Menu

#### Annual Inventory Reconciliation Report

Licensing Agency	License Number	Docket Number	Licensee Name	License Category	Street Address	Company Phone	Primary Contact Name	Primary Contact Phone
U.S. Nuclear Regulatory Commission	221-554-465	50865890	John Hopkins Medical Center	Disposer	1085 Capital Avenue, NW Mailstop 06A10 Washington DC 20210		Angela Randall	202-468-6000

Source No.	Make	Model	Serial Number	Source ID	Isotope Name	Activity	Activity Date	In Transit
1	Amersham Health	RAM-TYPE FOL	112807-1	1	Radium-226	299.951	05/21/2009	Yes
2	Amersham Health	RAM-TYPE FOL	112807-6	6	Radium-226	1996.72	05/21/2009	Yes
3	Amersham Health	RAM-TYPE FOL	112807-7	7	Radium-226	1996.72	05/21/2009	Yes
4	Amersham Health	RAM-TYPE FOL	112807-8	8	Radium-226	1996.72	05/21/2009	Yes
5	Amersham Health	RAM-TYPE FOL	112807-9	9	Radium-226	1996.72	05/21/2009	Yes
6	Campbell Industries	V-380	0111	161	Americium-241	11.0	11/22/2008	Yes
7	dsafe	dsafe	0111	162	Californium-252	11.0	11/22/2008	Yes
8	Istaho Industrial Instruments, Inc.	A424-19	8-112907-5	20	Cobalt-60 Actinium-227	741.98 872.487	05/21/2009	Yes
9	Istaho Industrial Instruments, Inc.	A424-19	8-112907-6	21	Cobalt-60 Actinium-227	741.98 872.487	05/21/2009	Yes

Export options: [Excel](#) | [PDF](#)

NRC Disclaimer  
NRC regulation 40CFR 2.204 requires the licensee review and confirm their inventory annually. Fail to do so, your licensee will be invoked... more text here  
These regulations apply to all licensees who use the National Source Tracking System (NSTS) application.

Signature: \_\_\_\_\_ Name: \_\_\_\_\_ Date: \_\_\_\_\_

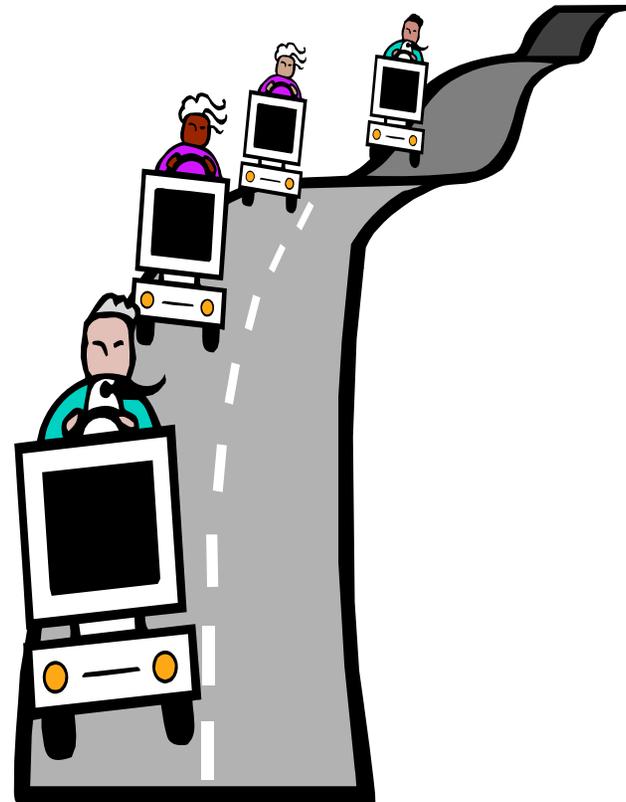
[Verify Annual Inventory](#) [Print Inventory Report](#)

Official Use Only - Security Related Information

Figure 3-2: Annual Inventory Reconciliation Report

# Forward Focus

- NSTS Version 2 – Spring 2011
  - Pending/Overdue transfer notifications
  - Import/Export notifications
  - Source history
  - Licensee transfer history
  - Reports



# Questions & Answers

