



Texas Radiation Regulatory Conference  
September 2, 2010

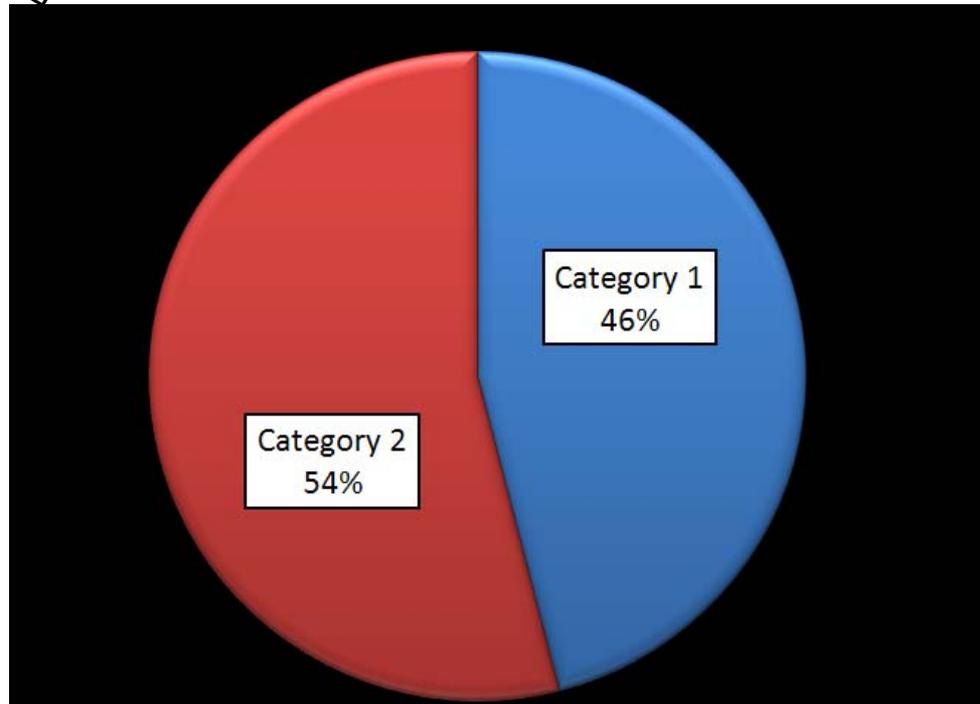
Angela Randall  
NSTS Project Manager, USNRC

# Overview

**NSTS**  
**Objective**

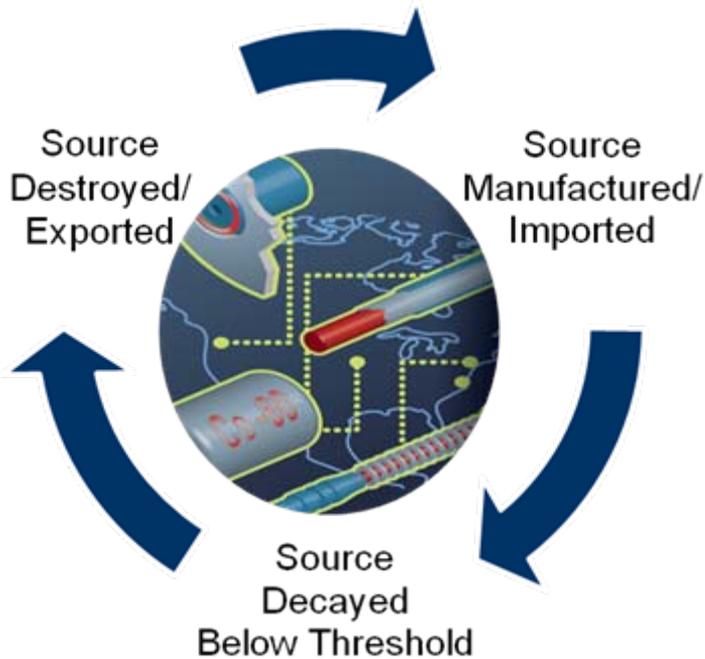
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Up-to-date accounting of all Category 1 and Category 2 sources in the U.S.



# What is NSTS?

## Source Life Cycle



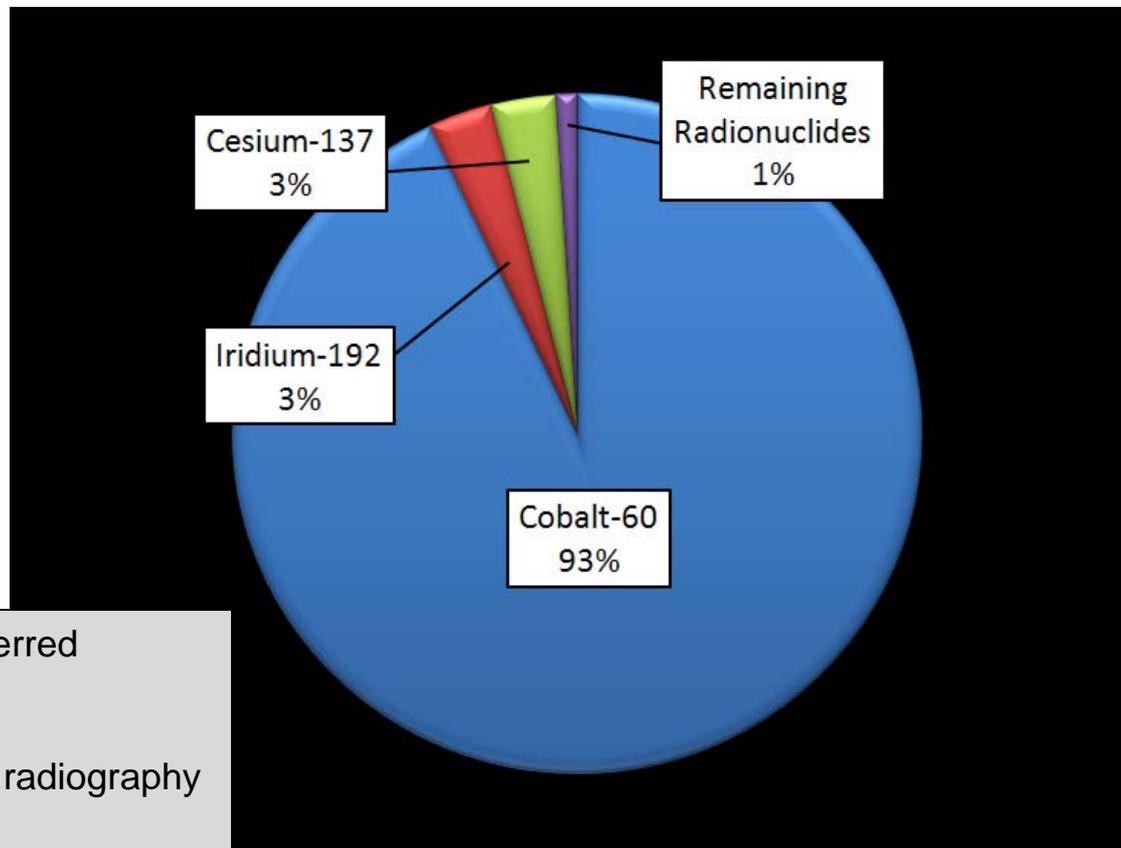
**Transaction Reporting  
Transfer, Receipt,  
Import, Export**



**Annual Inventory  
Reconciliation**

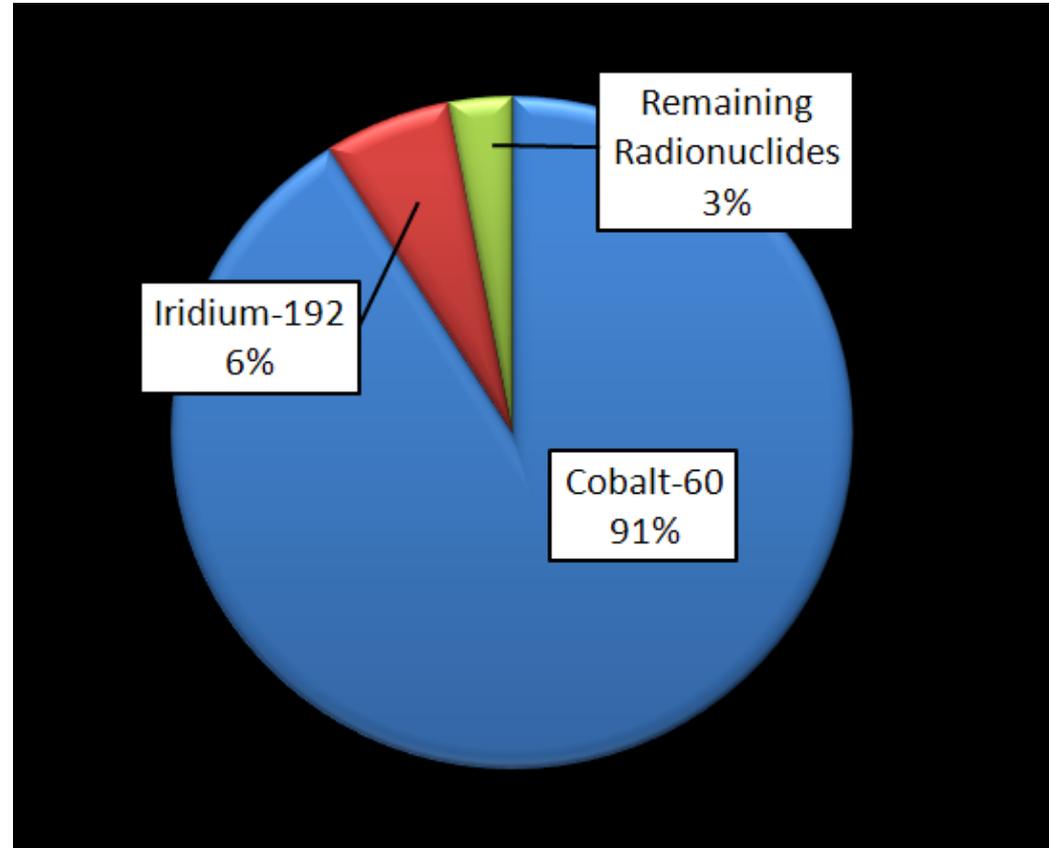
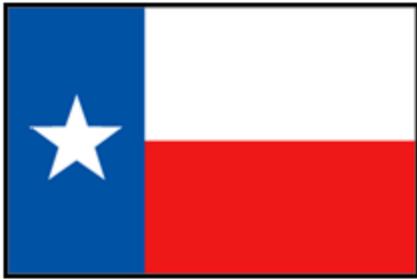
The relevant regulations that discuss the NSTS are found in 25 TAC § 289.202(HHH) and state that each licensee who manufactures, transfers, receives, disassembles, or disposes of a nationally tracked source must complete and submit a National Source Tracking Transaction Report.

# Where We Are Today



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

# Where Texas is Today

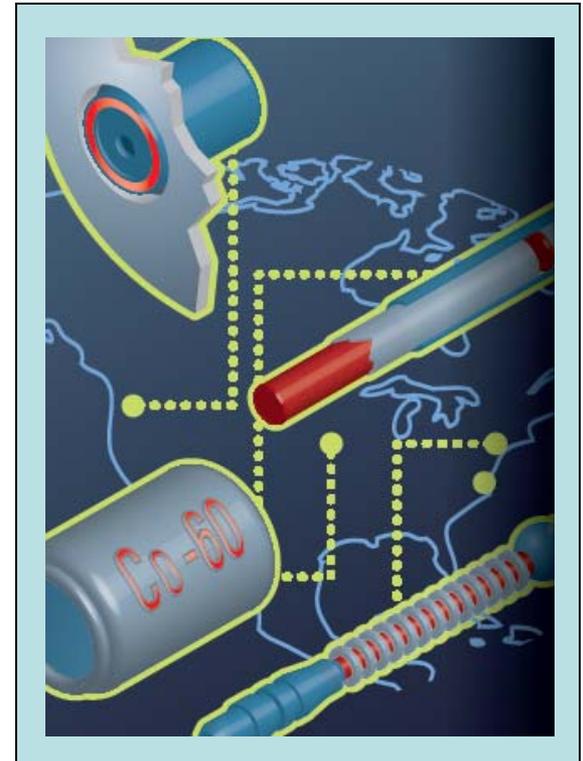


# Focus on NSTS To-Date

- 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



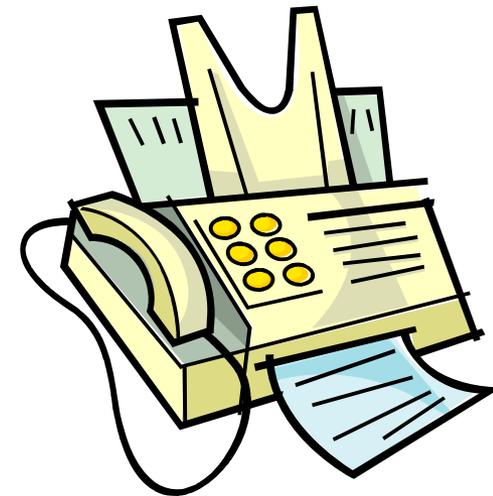
# Form 748 Common Reporting Errors

- Omission of required fields
- Misreporting of source makes and models (device makes/models)
- Illegible information (handwritten)
- Incorrect license numbers (sending or receiving license numbers)
- Inaccurate transfer information (inconsistent license numbers on transfer and receipt transactions)

Example of Completed Form 748 - Incorrect Receipt

# 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

**Form 748: NATIONAL SOURCE TRACKING TRANSACTION REPORT**

1. LICENSEE INFORMATION

2. TRANSACTION DATE

3A. TRANSACTION INFORMATION

3B. TRANSACTION TYPE (Check all that apply)

4. PREPARER INFORMATION

**Form 748: NATIONAL SOURCE TRACKING TRANSACTION REPORT**

1. LICENSEE INFORMATION

2. TRANSACTION DATE

3A. TRANSACTION INFORMATION

3B. TRANSACTION TYPE (Check only "TRANSFER" below)

4. PREPARER INFORMATION

5. SOURCE TRANSFER DATA

6. SOURCE TRANSFER DATA (continued)

# 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

**National Source Tracking System** Version 1.2  
NRC Home | FSIH Home  
NSTS Contact

**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) [Print](#) [Logout](#)  
User ID: MAH02 [Back to Main Menu](#)

**Annual Inventory Reconciliation Report** [Help](#)

Licensing Agency	License Number	Docket Number	License Name	License Category	Street Address	Company Name	Primary Contact Name	Primary Contact Phone
U.S. Nuclear Regulatory Commission	221-554-465	50965990	John Hopkins Medical Center	Disposer	1005 Cochrane Avenue, NW Mailstop 06A10 Washington DC 20210		Angela Randall	202-466-6000

Source No.	Make	Model	Serial Number	Source ID	Isotope Name	Activity	Activity Unit	Activity Date	Initial
1	Amer sham Health	RAII-TYPE FOL	112807-1	1	Radium-226	299.951	Ci	05/21/2009	Yes
2	Amer sham Health	RAII-TYPE FOL	112807-6	6	Radium-226	1996.72	Ci	05/21/2009	Yes
3	Amer sham Health	RAII-TYPE FOL	112807-7	7	Radium-226	1996.72	Ci	05/21/2009	Yes
4	Amer sham Health	RAII-TYPE FOL	112807-8	8	Radium-226	1996.72	Ci	05/21/2009	Yes
5	Amer sham Health	RAII-TYPE FOL	112807-9	9	Radium-226	1996.72	Ci	05/21/2009	Yes
6	Campbell Industries	X-380	0111	161	Americium-241	11.0	Ci	11/22/2008	Yes
7	daefa	daefa2	0111	162	Californium-252	11.0	Ci	11/22/2008	Yes
8	Iaho Industrial Instruments, Inc.	A424-15	8-112907-5	20	Cobalt-60 Actinium-227	741.98 572.487	Ci	05/21/2009 05/21/2009	Yes
9	Iaho Industrial Instruments, Inc.	A424-15	8-112907-6	21	Cobalt-60 Actinium-227	741.98 572.487	Ci	05/21/2009 05/21/2009	Yes

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

**NRC Disclaimer**  
NRC regulation 1005.4000 requires the licensee review and confirm their inventory annually. Fail to do so, your licensees will be invoked... more text here  
These regulations apply to all licensees who use the National Source Tracking System (NSTS) application.

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

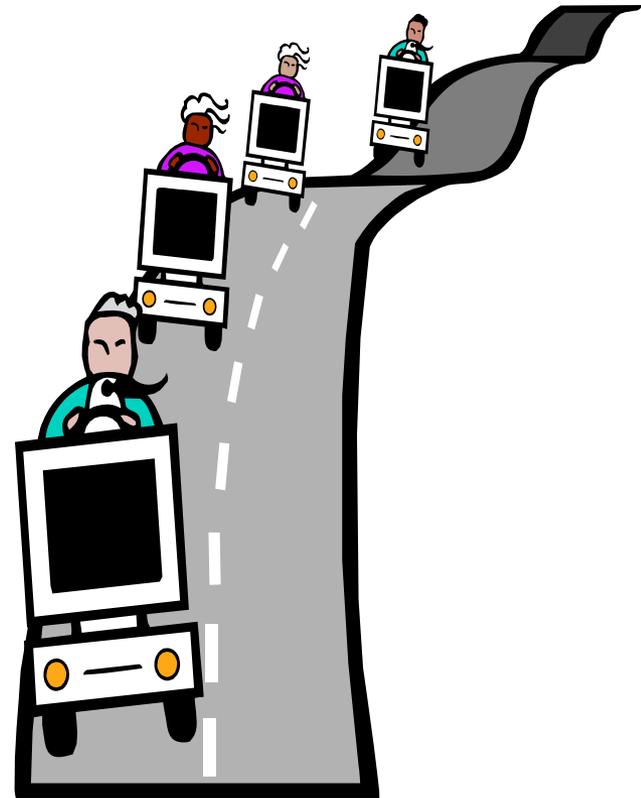
[Verify Annual Inventory](#) | [Print Inventory Report](#)

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

