



# **SOURCE COLLECTION AND THREAT REDUCTION (SCATR) PROGRAM**

## **CURRENT STATUS AND OPPORTUNITIES**

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# Source Collection and Threat Reduction (SCATR) Program Origins

- ◆ **DOE/NNSA** and **CRCPD** maintain a cooperative agreement to support sealed source consolidation and commercial disposal at the state level.
- ◆ **NNSA** funds disposal activities through cost sharing
- ◆ **CRCPD** administers the program

## Goal:

Collect and commercially dispose of sealed sources no longer in use, which could individually or in aggregate be used maliciously.



# Program Scope

## Sources eligible for disposal via SCATR:

- ◆ Cs-137 and Ra-226 Brachytherapy sources
- ◆ Sr-90 Eye applicators
- ◆ Low activity sources that exceed the NRC 120-day half-life limit for decay-in-storage
- ◆ Long half-life industrial sources, and calibration sources.
- ◆ Gauges
- ◆ Radiography sources
- ◆ Leaking sealed sources, formerly categorized as sealed sources
- ◆ Liquid sources in ampoules or sealed glass tubes, less than a few 10's of milliliters



# Program Scope

## Sources not eligible:

- ◆ Scaled Pipe
- ◆ Loose radioactive material
- ◆ Sources exempt from licensure
- ◆ Liquid sources in ampoules or sealed vials greater than a few milliliters
- ◆ Any source not meeting the NRC's basic definition of a sealed source
- ◆ Other sources that have already passed through ten half-lives should not necessarily be registered for SCATR since in most cases they may be disposed by other means.



## Important Dates in Progress of SCATR Program Development

- **Commencement of Pilot Project in Florida, 2007-08**
  - Very Successful, ~2500 sources disposed
  - Important lessons learned
    - State financial services too cumbersome. Contracting to be done by CRCPD
    - Need to let LLRW brokers collect and package sealed sources.
- **Closure of Barnwell to Out-of-Compact LLRW, July 2008**
  - 36 states, Guam and Puerto Rico without any Pathway for disposal of LLRW for four+ years.
- **Opening of Waste Control Specialists LLRW Facility, May 2012**
  - Pathway for disposal of LLRW open again to all states and territories.



# Important Dates in Progress of SCATR Program Development (cont.)

- **Revision of NRC's Branch Technical Position on Concentration Averaging and Encapsulation, May 2015.**
  - Low Level Radioactive Waste sites able to accept higher activity packages for disposal up to the Class C limits with acceptable justification.



# Unpackaging Shielded 549 Ci, Cs-137 Source Disposed at US Ecology Site September 27, 2017





# Collected and Disposed to Date

**32,169** Sources

**1487.94** Curies

Plus an additional

**34,113** Industrial Radiography Sources



# Funding Available for Source Disposals under SCATR

- Higher Activity sources ~ up to 50% cost share provided
- Routine SCATR sources ~ 30% cost share provided
- If higher activity sources are part of the Cesium Irradiator Replacement Program (CIRP) at NNSA and are disposable at a commercial site, they may be eligible for total funding from SCATR funds.

# SCATR

Source Collection  
and Threat Reduction  
Program

Register Your Sources Now!

Sources eligible for the Off-Site  
Recovery Project and/or the  
SCATR Program  
should be registered at  
<https://osrp.lanl.gov>



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# SCATR

Source Collection  
and Threat Reduction  
Program

Do You Have  
Unwanted Sources?



The SCATR Program solicits registration of  
unwanted sealed sources:

- Ra-226 up to 44.4 GBq (1.2 Ci) in one 55-gal drum from any state at NW Compact site only;
- Transuranics at or below their Class C concentration limit (3.7 kBq/g or 100 nCi/g) and Cs-137 up to 4.8 TBq in a 55-gal drum (or 0.2 cu.m.). Other beta/gamma emitters will be either capped by their Class C limits or by regulatory limits unique to each disposal site license; or
- Otherwise acceptable for commercial, shallow-land disposal facilities.

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Directors:

- Will work with radiation control agencies, users groups, and certain manufacturers to establish collections;
- Has access to funding from USDOE to assist with the cost of disposal of the collection, packaging and disposal of LLRW through a cost sharing arrangement; and
- May be able to notify prospective participants of other opportunities for disposal or disposition as they arise.

For CRCPD assistance information, see  
<https://www.crcpd.org/page/SCATR>

SCATR  
Brochures  
Available  
For  
Distribution





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# Source Collection and Threat Reduction Program Information for Owners of Unwanted Radioactive Material

## SCATR is:

- A project administered through CRCPD;
- Supported by the U.S. Department of Energy National Nuclear Security Agency;
- To encourage the disposal of unwanted radioactive sources by organizing large-scale collections and providing funding through cost sharing opportunities;
- A supplement to other federal and national programs of assistance with radioactive material.

## A material is eligible for SCATR Program assistance if it is:

- No longer wanted by the owner;
- Sealed sources or sealed vials (small volumes, 10s of milliliters), containing naturally occurring (not in the form of scale), accelerator produced and reactor produced radionuclides;
- Ra-226 or Class C concentrations of alpha emitting transuranic radionuclides;
- Specifically or generally licensed sealed sources;
- Not eligible for assistance by another federal or national program;
- Registered with the Off-Site Source Recovery Program at <https://osrp.lanl.gov>;
- Included in a collection organized by or through the CRCPD.

## Guidance and Suggestions for Participating in a SCATR Collection

Register sealed sources with the Off-Site Source Recovery Project. You can obtain a blank Excel registration form on the SCATR page at <https://osrp.lanl.gov/CRCPDSCATR.shtml> or by emailing [rmeyer@crcpd.org](mailto:rmeyer@crcpd.org). To expedite receiving a quote when you send a copy of the completed registration form to [jgriffin@lanl.gov](mailto:jgriffin@lanl.gov), also copy [rmeyer@crcpd.org](mailto:rmeyer@crcpd.org). You will receive a quote from the SCATR broker soon thereafter. If the quote is acceptable, the broker will contract with you and schedule a date for collecting your sources. The SCATR program offers financial assistance in the form of a cost sharing. SCATR will offer to pay a percentage of the cost of disposal, which will be announced at the beginning of a new collection year. Although SCATR offers the assistance for the disposal of only sealed sources, the facility may under a separate contract arrange with the broker to dispose of unsealed radioactive wastes as well.

**\*Register Candidate Materials at <https://osrp.lanl.gov>**

**For more information about CRCPD assistance, see <https://www.crcpd.org/page/SCATR>.**

\*Registration does not imply or guarantee assistance with removal/disposition of all radioactive material.

For more information  
about CRCPD assistance, visit  
<https://www.crcpd.org/page/SCATR>



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This is also  
posted online at  
[CRCPD.org](http://CRCPD.org)



# MORE INFORMATION ABOUT SCATR

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REGISTRATION FORM

<http://osrp.lanl.gov/SCATRTemplate.xls>

INFORMATION ABOUT SCATR and other CRCPD PROGRAMS

<http://www.crcpd.org>