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**RHB Information Notice 14-12-01**

December 1, 2014

To: Radioactive Materials Licensees

Subject: 2014-2015 CRCPD/SCATR Disuse Source Collection and Disposal Opportunity

We have been notified that The Conference of Radiation Program Directors, Inc. (CRCPD) Source Collection and Threat Reduction Program (SCATR) was scheduled to begin its 2014-2015 disused and unwanted radioactive sealed source collection and disposal effort in October 2014. CRCPD/SCATR provides cost-shared support for the packaging, transport, and disposal of Class A, B, and C sealed sources. Licensees in all 50 States and U.S. territories are potentially eligible for participation in the 2014-2015 effort. The program is targeting a 45% cost-share amount for 2014-2015 program participants in California.

**CRCPD/SCATR has indicated that cost-share amounts will decrease going forward. We encourage all licensees who have eligible sealed sources that will not be used in the foreseeable future to take advantage of this opportunity to properly dispose of this material in a cost effective manner.**

Please see the attached SCATR bulletin and Attachments A and B for further information.

If you have additional questions regarding the collection effort, please call or email Russ Meyer at CRCPD (512-761-3822 or [rmeyer@crcpd.org](mailto:rmeyer@crcpd.org)).

Sincerely,

Signature on File

Gonzalo L. Perez, Chief  
California Department of Public Health  
Radiologic Health Branch

Attachments:

- A. Information on SCATR Collection of Certain "Class A" Sealed Sources for Disposal at the Energy Solutions Clive, Utah Facility
- B. Information on SCATR Collection of Certain "Class A, B, and C" Sealed Sources for Disposal at the Waste Control Specialists Andrew, TX Facility

Enclosure:

CRCPD SCATR Bulletin

## Attachment A

### Information on the Source Collection and Threat Reduction (SCATR) Collection of Certain “Class A” Sealed Sources for Disposal at the Energy Solutions Clive, UT Facility

The Source Collection and Threat Reduction Program (SCATR) administered by the Conference of Radiation Control Program Directors (CRCPD) is providing sealed source licensees in states which do not have access to a low level radioactive waste disposal facility an opportunity to dispose of certain unwanted radioactive sealed sources. The collection, which is supported by the Department of Energy’s Global Threat Reduction Initiative (GTRI), the State of Utah Division of Radiation Control, and Energy Solutions of Utah, will include a range of sealed sources that meet the definition for Class A waste and will last for a period of one year from the date the first waste is received at the Clive, UT facility. CRCPD is offering financial assistance equal to half the cost of disposal to generators who participate in the effort.

Only sealed sources which meet the criteria specified below will be considered for the program:

- Each source by itself must meet the definition of Class A waste as defined in 10 CFR 61.55:
  - The quotient of the current activity of the radionuclide in the source divided by the volume of the source cannot exceed the Class A limit as specified in 10 CFR 61.55 tables;
  - This includes any radionuclide not specifically listed in the 10 CFR 61.55 tables with a half-life < 5 years ;
  - Commonly used radionuclides that could qualify for the collection include:

Isotope	Class A Limit	Isotope	Class A Limit	Isotope	Class A Limit
<sup>60</sup> Co	700 □Ci/cm <sup>3</sup>	<sup>125</sup> I	700 □Ci/cm <sup>3</sup>	<sup>192</sup> Ir	700 □Ci/cm <sup>3</sup>
<sup>137</sup> Cs	1 □Ci/cm <sup>3</sup>	<sup>109</sup> Cd	700 □Ci/cm <sup>3</sup>	<sup>65</sup> Zn	700 □Ci/cm <sup>3</sup>
<sup>153</sup> Gd	700 □Ci/cm <sup>3</sup>	<sup>133</sup> Ba	unlimited	<sup>204</sup> Tl	700 □Ci/cm <sup>3</sup>
<sup>55</sup> Fe	700 □Ci/cm <sup>3</sup>	<sup>68</sup> Ge	700 □Ci/cm <sup>3</sup>	<sup>22</sup> Na	700 □Ci/cm <sup>3</sup>
<sup>57</sup> Co	700 □Ci/cm <sup>3</sup>	<sup>152</sup> Eu	unlimited	<sup>54</sup> Mn	700 □Ci/cm <sup>3</sup>
<sup>210</sup> Po	700 □Ci/cm <sup>3</sup>	<sup>147</sup> Pm	700 □Ci/cm <sup>3</sup>	<sup>195</sup> Au	700 □Ci/cm <sup>3</sup>

- The sealed source must be registered with the Off Site Source Recovery Project (OSRP) before it can be accepted for disposal. Go to <http://osrp.lanl.gov/PickUpSources.aspx> for information about how to register your source(s). If your sources are already registered, you may wish to update your registration.
- Each source must be uniquely identified by a serial number or other unique identifier and the site should have ready any documentation available pertaining to a particular source’s activity, isotope, and date of manufacture or original assay upon broker’s packaging and acceptance of material.

- Other restrictions may apply.

A list of the sealed sources you have registered with OSRP will be sent to a broker included in the list below. You will be contacted by a broker to schedule a date and time for collection of your sources. If you have additional questions regarding the collection effort, please call or email Russ Meyer at CRCPD (512-761-3822 or [rmeyer@crcpd.org](mailto:rmeyer@crcpd.org)).

<b>Clive Qualified Radioactive Material Brokers</b>	
ALARON	Wampum, PA
Barnwell Processing Facility	Barnwell, SC
Bear Creek (Energy Solutions)	Oak Ridge, TN
Studsvik Processing Facility Erwin, LLC	Erwin, TN
TOXCO	Oak Ridge, TN
Bionomics (Clive-Qualification Pending)	Oak Ridge, TN
Environmental Management Controls (EMC) Pending	Turlock, CA

## Attachment B

### Information on SCATR Collection of Certain "Class A, B, and C" Sealed Sources for Disposal at the Waste Control Specialists Andrew, TX Facility

The Source Collection and Threat Reduction Program (SCATR), administered by the Conference of Radiation Control Program Directors (CRCPD), is providing sealed source licensees in states which do not have access to a low level radioactive waste disposal facility an opportunity to dispose of certain unwanted radioactive sealed sources. On April 25, 2012 the Waste Control Specialists' (WCS) Compact Waste Facility (CWF) located in Andrews County, Texas was authorized to collect and dispose of sealed sources. This effort is supported by the Department of Energy's Global Threat Reduction Initiative (GTRI), the Texas Commission on Environmental Quality (TCEQ), the Texas Low-Level Radioactive Waste Disposal Compact Commission (Texas Compact Commission), and Waste Control Specialists. CRCPD may offer financial assistance as needed to generators who participate in the SCATR program. WCS's license allows for disposal of Class A, B and C sealed sources in accordance with the following requirements:

- An Import Agreement from the Texas Compact Commission is required for all shipments from generators located in states other than Texas and Vermont. Waste brokers can assist with import authorizations;
- All sealed sources (i.e., source material deposited in a plastic medium or ANSI designed special form sources) or special form radioactive material, with the exception of check sources (< 100 uCi), disposed of in WCS' containerized waste facility shall be doubly-packaged and encased in concrete or similar inert material within the outer package;
- For waste classification purposes, the activity in a waste package may be averaged over the entire package in accordance with the United States Nuclear Regulatory Commission (U.S. NRC) "Final Branch Technical Position on Concentration Averaging and Encapsulation, Revision in Part to Waste Classification Technical Position," dated January 17, 1995;
- Encapsulation media shall be in the form of structural grade cement or material technologically equivalent or superior to structural grade cement as demonstrated through technical specifications and testing;
- The encapsulation method for sealed sources shall be geometrically centered within a minimum of four (4) inches of encapsulation media distributed uniformly around the source(s);
- More than one source may be placed in a single container as long as the requirements of the WCS waste acceptance criteria, WCS' radioactive material license, and the Texas rules for low-level radioactive waste disposal (30 Texas Administrative Code Chapter 336) rules are met;
- The maximum concentration of any radionuclide(s) in one or more sources encapsulated in a single container must not exceed the concentration limits specified in 30 Texas Administrative Code §336.362(a)(2) for Class C low-level radioactive waste;

- Combinations of radionuclides in a single container shall not exceed unity;
- The maximum amount of cesium-137/barium-137 gamma-emitting radioactivity in a source(s) that may be encapsulated in a single container is 30 curies (Ci). Other gamma emitters shall not exceed Class C limits or have a dose rate that exceeds U.S.
- Department of Transportation (U.S. DOT) shipping requirements;
- The maximum amount of radioactivity in a source(s) from transuranics, other than plutonium-
- 241 and curium-242 that may be encapsulated in a single container, is 30 millicuries (mCi);
- The maximum amount of carbon-14 radioactivity in a source(s) that may be encapsulated in a single container shall not exceed one (1) Curie;
- The maximum amount of radium-226 radioactivity in a source(s) that may be encapsulated in a single container shall not exceed 30 mCi;
- Additional specific notifications to WCS and TCEQ are required to accept any neutron source, please contact WCS in advance (e.g., polonium210, americium-241, radium-226 in combination with beryllium or other target);
- For Nationally-tracked sources as defined in 10 CFR 20.1003, referring to sealed sources containing a quantity equal to or greater than Category 1 or 2 levels listed in Appendix E to 10 CFR Part 20, prior to shipping, the generator shall provide WCS and the TCEQ the following information specifically identifying these sources for review and approval:
  - Generators name, shipping address, radioactive material License number, and name of individual preparing the reported information;
  - The manufacturer, model, and serial number of the source or, if not available, other information to uniquely identify the source;
  - The radioactive material in the source and current activity in Becquerels and Curies. The activity reported must be the same as the activity that will be listed on the shipment manifest;
  - The date the source strength is reported;
  - The requested shipping date, estimated arrival date the waste manifest number and the waste disposal container number;
  - The sealed source must be registered with the Off Site Source Recovery Project (OSRP) before it can be accepted for disposal. Go to <http://osrp.lanl.gov/PickUpSources.aspx> for information about how to register your source(s). If your source(s) are already registered, you may wish to update your registration;
  - Each source must be uniquely identified by a serial number or other unique identifier and the site should have ready any documentation available pertaining to a particular source's activity, isotope, and date of manufacture or original assay upon broker's packaging and acceptance of material.

Some radionuclides such as C-14 may have site specific constraints based on concentrations or on total activities allowed based on the performance assessment of the CWF facility. Please check with Waste Control Specialists on sources containing C-14 or on those sources that might require specific notifications.

## **WSC Qualified Radioactive Material Brokers**

Bionomics Inc. (865) 220-8501  
1550 Bear Creek Rd.  
Oak Ridge, TN 37830

Thomas Gray & Associates/EMC  
(209) 667-1102  
3106 S Faith Home Road  
Turlock, CA 95380

Philotechnics  
(865) 285-3064  
201 Renovare Blvd  
Oak Ridge, TN 37830

Ecology Services (WCS qualification pending)  
(301) 362-6700  
9135 Guilford Road, Suite 200  
Columbia, MD 21046

Ram Services (WCS qualification pending)  
(920) 686-3889  
510 County Highway V  
Two Rivers, WI 54241

Qal Tek Inc. ((WCS qualification pending)  
(208) 523-5557  
3998 Commerce Circle  
Idaho Falls, ID 83401

B & B Environmental Safety, Inc.  
(209) 858-5806  
17416 Murphy Parkway  
Lathrop, CA 95330

Nuclear Sources and Services (WCS qualification pending)  
(713) 641-0391  
5711 Etheridge Street  
Houston, TX 77087

# Source Collection and Threat Reduction Program (SCATR) 2014 - 2015

## 2014 – 2015 CRCPD/SCATR Source Collection and Disposal Opportunity

The Conference Radiation Control Program Directors (CRCPD) Source Collection and Threat Reduction (SCATR) Program will begin its 2014-2015 disused and unwanted radioactive sealed source collection and disposal effort in October 2014. CRCPD/SCATR provides cost-shared support for the packaging, transport, and disposal of Class A, B, and C sources with access to a commercial disposal facility. Licensees in all 50 States and U.S. territories are potentially eligible for program participation.

SCATR is funded through a grant provided by the Department of Energy (DOE) National Nuclear Security Administration (NNSA). **CRCPD/SCATR is targeting a 45% cost-share amount for 2014-2015 program participants.** Licensees located in States not included in the 2013-2014 collection effort (i.e., those in States with membership in the Northwest/Rocky-Mountain, Texas, and Atlantic Compacts) will receive additional cost-share consideration.

**Note:** *Source collection and cost-share targets are set on an annual basis; CRCPD/SCATR expects cost-share amounts to decrease each year going forward. While the program makes every effort to assist as many eligible generators as possible each year at the targeted cost-share amount, the cost-share support available, as well as the number and location of sources collected, are subject to funding, logistic, and other considerations.*

To be considered for SCATR participation, licensees must register their disused and unwanted sources with the Los Alamos National Laboratory (LANL) Off-Site Source Recovery Project (OSRP) at:

<http://osrp.lanl.gov/PickUpSources.aspx>

Interested licensees are encouraged to complete source registration as soon as possible. Source registration does not imply a commitment by either the generator or CRCPD with regard to program participation. CRCPD will begin contacting registered generators in October 2014 with further information. Generators who have already registered sources with OSRP will automatically be considered for participation. However, they are encouraged to verify online that their registered source inventory and contact information is accurate and up to date.

For more information on CRCPD/SCATR or the 2014-2015 nationwide SCATR collection, please contact **Russ Meyer at 512-761-3822 or [rmeyer@crcpd.org](mailto:rmeyer@crcpd.org)**, or visit <http://www.crcpd.org/StateServices/SCATR.aspx>.