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Princeton Technology Center

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Schlumberger

NMSB2

March 11, 2008

Mr. Jim Dwyer
Commercial and R&D Branch
Division of Nuclear Materials Safety
U.S. Nuclear Regulatory Commission, Region 1
475 Allendale Road
King of Prussia, PA 19406

29-08636-02
03011318

Subject: Review of Decommissioning Funding Estimate

Dear Mr. Dwyer,

Princeton Technology Center (PTC) is preparing an application to amend its radioactive materials license (29-08636-02) for increased tritium possession limits. Under the proposed amendment, we will continue to receive tritium as a gas, in Type-A quantities, and store it on uranium beds mounted to our individual processing stations. Roughly half of the on-site tritium inventory will be stored in this fashion. The remaining inventory will be as assembled minitrons (sealed sources) in work-in-process and as non-working units for disposal.

A decommissioning funding estimate has been prepared for our facility by Energy Solutions, LLC. Since a large part of our inventory is as sealed sources, our decommissioning liability lies primarily in the waste disposal cost. Because we are located in the Atlantic Compact, this liability is capped by the pricing structure of the Atlantic Compact's disposal facility. This advantage has been factored into our estimate.

Before proceeding with the amendment and funding documents, we would like to be certain that our cost estimate is adequate. Enclosed are two copies of our recent Decommissioning Cost Update Report. The total amount of $834,000.00 USD considers our license conditions up through amendment #26 of our Radioactive Materials license. We will propose additional sealed source testing capacity in the next amendment, but this is not expected to add substantially to our decommissioning costs.

We are prepared to move forward with this amendment and seek you concurrence with the amount of our funding.

Beset Regards,

Thomas P. Bracke P.E.
Radiation Safety Officer
Encl.

142225

NMSS/RGN1 MATERIALS-002

ENERGYSOLUTIONS

CS-OP-PN-011

Decommissioning Cost Update for the Radiological Decommissioning of the Schlumberger Princeton Technology Center

Project No. 137071 **Revision 0**

Prepared for:
Schlumberger Princeton Technology Center
20 Wallace Road
Princeton Junction, NJ 08550

Prepared by:
Energy*Solutions*, LLC
Commercial Services Division
143 West Street
New Milford, CT 06776

Authored By: Stewart R. Smith, Radiological Engineer III — 1/9/08 Date

Reviewed By: Jeffrey J. Martin, Senior Cost Estimator — 1/9/08 Date

Approved By: Paul Ely, Senior Radiological Engineer — 1/9/2008 Date

[X] New Plan
[ ] Title Change
[ ] Plan Revision
[ ] Plan Rewrite

Effective Date 1/9/08

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4014

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1.0 PURPOSE

The purpose of this study is to provide a cost estimate for the radiological decommissioning of the Schlumberger Princeton Technology Center (PTC) in Princeton Junction, NJ. The cost estimate corresponds to the requirements of NRC 10 CFR 30.35 and 10 CFR 70.25 to permit radiological material license termination and release of the site for unrestricted use. Only those decommissioning activities and cost factors necessary to meet this requirement are incorporated into the cost estimate.

A previous radiological cost estimate was issued by Nuclear Energy Services, Inc. (NES) in June 1991. The NES staff responsible for the 1991 report subsequently became part of the Energy*Solutions* organization in October 2005.

2.0 SCOPE

The scope of this report includes the derivation of the cost required to decommission the facility. These costs, given in 2007 dollars, include the following:

- Development of Work Procedures
- Manpower and equipment required to remove or reduce residual radioactivity to levels which will permit release of the site for unrestricted use
- Radioactive waste packaging, transportation and disposal costs

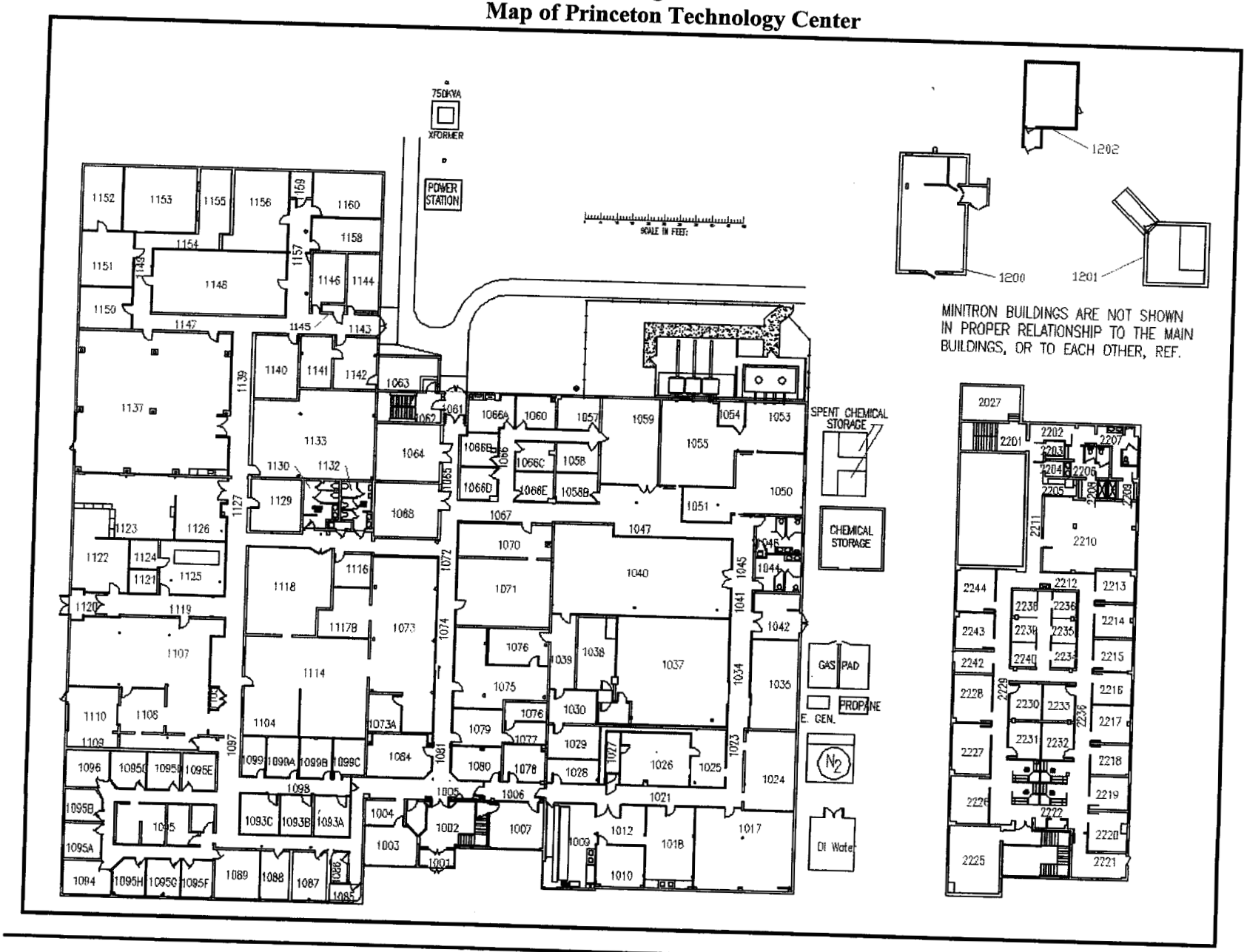
3.0 DISCUSSION

Schlumberger's Princeton Technology Center is the manufacturing center for the Minitron product line. Minitrons are devices used in oil exploration to characterize materials deep inside wells. Tritium is incorporated into the components of the Minitron during manufacturing, and is therefore the primary radiological concern at the PTC. Minitrons are manufactured and serviced in the radiologically controlled areas of the building including the Minitron Process Building, Research and Engineering Building (R&E), and the Accelerator Test Laboratory (ATL). Sealed sources are also present at the PTC and are used primarily as check sources for radiation detectors.

Energy*Solutions* has performed a walkdown and characterization survey of the PTC with the facility's Radiation Safety Officer. For each phase of the decommissioning, a specific cost was calculated for special equipment procurement and facility component decontamination & removal. The decommissioning cost estimate also incorporates complete waste disposal costs which include waste containers, transportation and disposal.

The characterization survey verified the radiological conditions of the PTC. Assumptions have been made as to the extent of decontamination and dismantling that will be required to remove all radiological contaminants from the facility and terminate the license.

Figure 1
Map of Princeton Technology Center



4.0 ASSUMPTIONS

1. All costs are calculated in 2007 dollars.

2. All labor is assumed to be performed by non-union workers without a requirement for prevailing wage.

3. No bid or performance bonding for contractor is required.

4. All work will be performed by an independent contractor qualified and experienced in performing laboratory decommissioning work. Because no local or internal labor is anticipated to be used, travel and per diem expenses have been incorporated into the cost estimate. These are reflected within Other Direct Costs, Undistributed as shown in Section 5.0.

5. The billing rates for work activities are as follows:

Laborer	$ 39.63/hr
Health Physics Technician	$ 53.15/hr
Site Supervisor	$ 106.45/hr
Waste Broker/Specialist	$ 77.42/hr
Project Manager	$ 106.45/hr
Certified Health Physicist	$ 135.48/hr

6. Since New Jersey is a member of the Atlantic Interstate Low-Level Radioactive Waste (LLRW) Management Compact, Schlumberger is eligible to dispose of their radioactive waste at the Barnwell Regional Disposal Facility in Barnwell, SC. The disposal rates used in this cost estimate are based on the assumptions that either Barnwell or a similar type facility will exist at the actual time of decommissioning, and that all radioactive waste generated during decommissioning activities will be eligible for disposal at this facility.

7. Disposal rates for the Barnwell or similar facility are as follows:

Base Weight Charge	$9.842/lbs. for Minitron drums and HIC containers $19.930 for 96 cu. ft. metal boxes
Dose Multiplier	1.00
Millicurie Surcharge	$0.421/mCi
Administrative Surcharge	$6.00/CF

These values are based on the actual "Uniform Schedule of Maximum Disposal Rates for Atlantic Compact Regional Waste," effective July 1, 2006.

8. There will be approximately sixteen (16) High Integrity Containers [HIC], e.g., NUHIC-55's, filled with an approved stabilization media for the Minitrons. Each HIC is assumed to be filled with Minitrons presenting a total activity of approximately 375,000 mCi per HIC.

9. A total of two (2) B-25 waste containers are assumed to be required for the radioactive waste generated during decommissioning as a result of remediation. These 96 cubic feet containers plus waste are assumed to weigh 2,000 pounds each for a total of 192 cubic feet and 4,000 pounds of low level radioactive waste.

10. A total of four (4) 55/57-gallon ENCAP drums containing radiological sources similar to those listed in the 12/27/2007 inventory waste are assumed to be present at the time of decommissioning. Two ENCAP drums will be filled with cement stabilized Am-241 sources containing no more than 500 microcuries each. Two additional ENCAP drums will be filled with cement stabilized Class A, B, and/or C sources. To meet the compressive strength tests, a 45 day cure may be required.

11. The uranyl hydride storage beds containing approximately 8,000 Curies of tritium gas may be pyrophoric material. There may be treatment options available for this material, which is not suitable for disposal at Barnwell under current license conditions. Methods being developed by the U.S. Department of Energy similar to "Isotopic Exchange for Metal Hydride Bed Disposal[1]" may allow for suitability at a later date. This cost estimate does not include an allowance for disposal of these storage beds or any other mixed waste (i.e. hazardous waste that is radiologically contaminated).

12. The source inventory has been changed to reflect activities developed from the inventory of 12/27/2007. Where available, source certificates have been reviewed to ascertain whether the sources are special form material. Not every source will meet Barnwell Waste Acceptance Criteria. For example, sources containing greater than 500 microcuries of Am-241 should be registered with the National Nuclear Security Administration (NNSA), Office of Global Threat Reduction's Off-site Source Recovery Project for future storage/disposal. The radioactive sources unacceptable for disposal at Barnwell may be registered at http://osrp.lanl.gov/PickUpSources.aspx. There is little or no cost associated with this program at this time and disposal costs for these sources were not included in this estimate.

13. Work will be performed on an eight hours per day, five days per week basis with no overtime hours included. The work crews will have unrestricted access to the site.

14. The buildings and/or rooms where contaminated materials have been handled or stored are listed below. Based on current surveys, it is assumed that they will require a minimal amount of decontamination effort. It is also assumed that these areas will be defined as "impacted" for purposes of the final status survey.

    - Minitron Process Building
    - Research and Engineering (R&E) Building
    - ATL

[1] Isotopic Exchange for Metal Hydride Bed Disposal, WSRC-MS-2001-00250, Contract No. DE-AC09-96SR18500, U.S. Department of Energy.

15. All five fume hoods in the Minitron Process Building and the single fume hood in the ATL are assumed to be contaminated and will require complete removal, including filters and associated ductwork.

16. Contamination is limited to localized low-levels of radioactivity incidental to routine activities. There is no subsurface or widespread contamination.

17. Schlumberger management oversight of the decommissioning work is not included in the cost estimate.

5.0 DECOMMISSIONING COST STUDY

The items requiring decommissioning, and the estimated total cost in 2007 dollars, are presented in Table 5-1. In accordance with USNRC guidance, a 25% contingency is applied to account for unknowns (such as escalating waste disposal costs) and unplanned occurrences (such as equipment breakdowns or other schedule delays).

Table 5-1
Decommissioning Cost Estimate Summary

ID	Task Description	Man-Hours	Labor Cost	Labor Breakdown	Non-Labor ODCs *	LLRW Subcontracts	
1	**Pre-mobilization Preparations**	**94**	$11,214				
2	**Prepare Work Plans**	56		$6,729			
3	**Pre-mobilization activities**	38		$4,486			
4	**Field Activities**	**2,040**	$138,459		$112,234		
5	**Initial Radiation Survey**	120		$8,145			
6	**Processing Building**						
7	Dismantle 5 Hoods	220		$14,932			
8	Decon Sink and Trap	20		$1,357			
9	Dismantle Ductwork	100		$6,787			
10	Decon Source Storage Closet	40		$2,715			
11	Decon Bench tops	140		$9,502			
12	Decon Floor	80		$5,430			
13	Dismantle Exhaust Stack	160		$10,860			
14	**R and E Building**						
15	Decon Bench tops	100		$6,787			
16	Decon Floor	40		$2,715			
17	**ATL**						
18	Dismantle 1 Hood	60		$4,072			
19	Dismantle Ductwork	80		$5,430			
20	Decon Bench tops	120		$8,145			
21	Decon Floor	60		$4,072			
22	**Disposal of LLRW**						
23	Sealed Sources	40		$2,714			
24	Used Minitrons	40		$2,714			
25	Packing of D&D Waste	60		$4,072			
26	Waste Disposal (Barnwell)					$368,024	
27	Waste Transportation					$9,898	
28	**Final Status Survey**						
29	Perform Surveys	400		$27,150			
30	Process Data	160		$10,860			
31	**Project Support Activities**	**120**	$14,155				
32	Project Management	120		$14,155			
33	**Project Close-out Activities**	**110**	$13,048				
34	Prepare FSSR	94		$10,776			
35	Regulatory Support	16		$2,273			
				$176,878	$112,234	$377,922	$667,034
					Contingency	25%	$166,759
							$833,793

* Non-Labor ODCs include ongoing and routine infra-structural costs such as communications, supplies, instruments, sample analysis, tools, equipment, materials, physicals, PPE, protective clothing, per diems, travel & living.

6.0 SCHEDULE

The duration and number of man-hours for each work activity are estimated primarily on the following factors:

- Results of the characterization survey of the PTC facility conducted in 2006.
- The assumptions detailed in Section 4.0.
- The release criteria for the facility will adhere to the minimum requirements of the dose-based license termination rule limits specified in 10CFR20.
- Contractor performing the work has experience conducting laboratory decommissioning activities under similar radiological conditions.

The decommissioning activities have an estimated total of 2,192 man-hours. The duration of the project based on a 40-hour work week is approximately 15 weeks.

This estimate is based on an onsite work crew of five consisting of one Site Supervisor, one Project Engineer, two Senior Health Physics Technicians, and one Decontamination Technician. The crew would be expected to complete all on-site activities in approximately 10 weeks. The overall schedule duration may be accelerated by utilizing additional workers so tasks can be performed in parallel or by authorizing overtime.

The decommissioning schedule is presented in Attachment A.

7.0 RADIOACTIVE WASTE DISPOSAL

A summary of the radioactive waste disposal costs is presented in Attachment B. The decommissioning activities are assumed to generate approximately 279 cubic feet of radioactive waste. ENCAP[2] drums or other High Integrity Containers [HIC's] containing discrete sources will have to meet stabilization requirements for Barnwell disposal. All Class C containers require explicit review and approval by the Barnwell staff prior to shipment. This will include the stabilization of sources within the internal container with approved stabilization media of sixteen (16) High Integrity Containers (NUHIC-55's @ ~$42,642) for the nearly 4,000 minitrons with ~6,000 Curies of tritium.

Two 90-95 cubic foot metal boxes of waste will be used to dispose of waste generated during the decommissioning activities.

The Monsanto Research Corporation model MRC-2721 and the Amersham model AMC-62 (QSA X-10/2) sources are not suitable for disposal at the Barnwell site. These will need to be sent through the NNSA-OSR program to Los Alamos for storage/recycling.

8.0 ATTACHMENTS

8.1 Decommissioning Schedule
8.2 Summary of Radioactive Waste Disposal Costs
8.3 2007 R & D Department Inventory

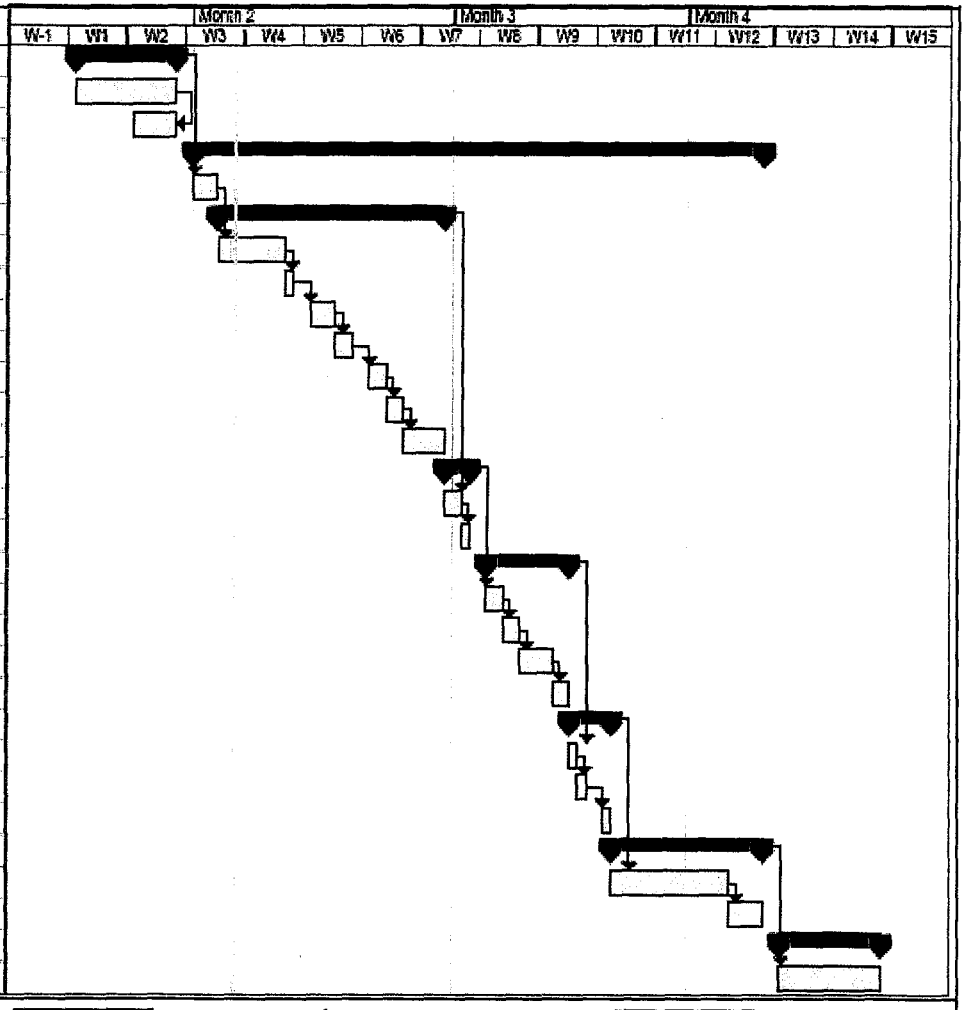
[2] Packaging Specialties, Inc., Part #225034PSI-7A, Test #102066507 – cost ~ $1,285 each per 10/22/2007 estimate

ATTACHMENT 8.1

DECOMMISSIONING SCHEDULE

DECOMMISSIONING SCHEDULE

ID	Task Name
1	Offsite plans and procedures
2	Prepare Work Plans
3	Pre-mobilization activities
4	Field Activities
5	Initial Radiation Survey
6	Processing Building
7	Dismantle 5 Hoods
8	Decon sink and trap
9	Dismantle Ductwork
10	Decon Source Storage closet
11	Decon benchtops
12	Decon floor
13	Dismantle Exhaust Stack
14	R and E Building
15	Decon benchtops
16	Decon floor
17	ATL
18	Dismantle 1 Hood
19	Dismantle Ductwork
20	Decon benchtops
21	Decon floor
22	Disposal of Legacy waste
23	Sealed sources
24	Used Minitrons
25	Packing of D&D Waste
26	Final Status Survey
27	Perform Surveys
28	Process data
29	Project Close-out Activities
30	Prepare FSSR



Project: Schlumberger DD.mpp
Date: Sat 1/6/07

Task | Split | Progress | Milestone | Summary | Project Summary | External Tasks | External Milestone | Deadline

Page 1

ATTACHMENT 8.2

SUMMARY OF RADIOACTIVE WASTE DISPOSAL COSTS

SUMMARY OF RADIOACTIVE WASTE DISPOSAL COSTS

Assumptions

Schlumberger Waste Disposal

Based upon current Barnwell disposal rates

Package	lbs./cu.ft. Density	mCi Activity	Cost by Weight Rate	mCi Surcharge	Dose Surcharge	Atlantic Compact Admin Fee
Source Drum-001 [Am-241]	138.00	0.263	$10,186.47	$0.11	1.00	$45.00
Source Drum-002 [Am-241]	138.00	0.263	$10,186.47	$0.11	1.00	$45.00
Source Drum-003 [Class A]	138.00	21.884	$10,186.47	$9.21	1.00	$45.00
Source Drum-004 [Class B]	138.00	0.507	$6,418.70	$0.21	1.00	$576.00
Minitron Drum #01	68.03	375,000.0	$5,021.43	$157,875.00	1.00	$45.00
Minitron Drum #02	68.03	375,000.0	$5,021.43	$157,875.00	1.00	$45.00
Minitron Drum #03	68.03	375,000.0	$5,021.43	$157,875.00	1.00	$45.00
Minitron Drum #04	68.03	375,000.0	$5,021.43	$157,875.00	1.00	$45.00
Minitron Drum #05	68.03	375,000.0	$5,021.43	$157,875.00	1.00	$45.00
Minitron Drum #06	68.03	375,000.0	$5,021.43	$157,875.00	1.00	$45.00
Minitron Drum #07	68.03	375,000.0	$5,021.43	$157,875.00	1.00	$45.00
Minitron Drum #08	68.03	375,000.0	$5,021.43	$157,875.00	1.00	$45.00
Minitron Drum #09	68.03	375,000.0	$5,021.43	$157,875.00	1.00	$45.00
Minitron Drum #10	68.03	375,000.0	$5,021.43	$157,875.00	1.00	$45.00
Minitron Drum #11	68.03	375,000.0	$5,021.43	$157,875.00	1.00	$45.00
Minitron Drum #12	68.03	375,000.0	$5,021.43	$157,875.00	1.00	$45.00
Minitron Drum #13	68.03	375,000.0	$5,021.43	$157,875.00	1.00	$45.00
Minitron Drum #14	68.03	375,000.0	$5,021.43	$157,875.00	1.00	$45.00
Minitron Drum #15	68.03	375,000.0	$5,021.43	$157,875.00	1.00	$45.00
Minitron Drum #16	68.03	375,000.0	$5,021.43	$157,875.00	1.00	$45.00
B-25 #01	22.22	1.0	$39,860.10	$0.42	1.00	$576.00
B-25 #02	22.22	1.0	$39,860.10	$0.42	1.00	$576.00
	Ci =	6,000.02	$197,041.16	$168,400.00		$2,583.00

Unit Cost = $1,285.00 per ENCAP drum from estimate [10/22/2007]
Units = 4.0
$5,140.00

For minitron stabilization NUHIC-55 $2,915.07 unit price - container
16.0 units
$46,641.09 Container Total

Packaging Sub-total = $51,781.09

Total Disposal Cost = $368,024.16

Transport Services - *Princeton, NJ to Barnwell, SC*

Item	Description		Unit Pricing	
Unit cost =			$4.50	per mile*
Total miles =	1,840	Round trip	$8,282.45	per trip
Overweight Permits =	$0.00	Cost + 15%	$0.00	per trip
Fuel Surcharge =	$1,435.20		$1,435.20	per trip**
Detention =	$180.00		$180.00	per trip***
			$9,898	

* inflation adjusted @ 3.5 % per year [5 years]
** $0.01/mile per $0.05 increase > $1.10 @ $5.00/gallon
*** $45/hour after 4 hours; [added 4 hours]

Total Transportation Cost = $9,898

Total Cost = $377,922.00

ATTACHMENT 8.3

2007 R & D DEPARTMENT INVENTORY

Radionuclide	Source number	Form	Size (cc)	mass (grams)	Manufacturer	Activity µCi - A_o	A_o Date	A_d Date	Activity µCi - 2007
Am-241	1	LSV	20	25	Nuclear Enterprises	0.02	1/1/1982	7/2/2012	0.022
Am-241	3	LSV	20	25	Nuclear Enterprises	0.05	1/1/1982	7/2/2012	0.050
Am-241	672		0.113138753	0.905	Quartz & Silica	4.50	3/13/1993	7/2/2012	4.394
Am-241	1360		0.113138753	0.905	Unknown	50.00	7/21/1997	7/2/2012	49.169
Am-241	2016		0.113138753	0.905	Unknown	50.00	7/21/1997	7/2/2012	49.169
Am-241	2085		0.113138753	0.905	Quartz & Silica	2.70	5/1/1991	7/2/2012	2.629
Am-241	2086		0.113138753	0.905	Quartz & Silica	2.70	5/1/1991	7/2/2012	2.629
Am-241	2810		0.113138753	0.905	Quartz & Silica	2.70	*7/21/1997*	7/2/2012	2.655
Am-241	1186BO	2.5x12 xtal	*75*	0.5	Quartz & Silica	2.50	9/1/1955	7/2/2012	2.299
Am-241	1288AO (970)	2.5x12 xtal	*75*	0.5	Quartz & Silica	2.70	1/1/1991	7/2/2012	2.627
Am-241	1289AO (958)	2.5x12 xtal	*75*	0.5	Quartz & Silica	2.70	1/1/1991	7/2/2012	2.627
Am-241	1467AI	2.5x12 xtal	*75*	0.5	Quartz & Silica	2.50	4/1/1984	7/2/2012	2.407
Am-241	1468BI		0.113138753	0.905	Quartz & Silica	2.70	9/1/1984	7/2/2012	2.601
Am-241	2807AO		0.113138753	0.905	Quartz & Silica	2.70	12/1/1982	7/2/2012	2.594
Am-241	**429ILA**	**stud**	**3.218168975**	**25.75**	**Amersham**	**1,000.00**	**6/1/1984**	**7/2/2012**	**962.891**
Am-241	482AI	2.5x12 xtal	*75*	0.5	Bicron	2.50	10/20/1989	7/2/2012	2.428
Am-241	E831	button	3.218168975	1	Isotope Product Lab	100.00	2/1/1983	7/2/2012	96.084
Am-241	E832	button	3.218168975	1	Isotope Product Lab	100.00	2/1/1983	7/2/2012	96.084
Am-241	H-095		0.113138753	0.905	Isotope Product Lab	50.00	9/30/1985	7/2/2012	48.247
Am-241	KK-971		0.113138753	0.905	Isotope Product Lab	10.00	6/25/1997	7/2/2012	9.833
Am-241	LL-113		0.113138753	0.905	Isotope Product Lab	50.00	7/21/1997	7/2/2012	49.169
Am-241	LL-114		0.113138753	0.905	Isotope Product Lab	50.00	7/21/1997	7/2/2012	49.169
Am-241	LL-115		0.113138753	0.905	Isotope Product Lab	50.00	7/29/1997	7/2/2012	49.171
Am-241	**MRC 2721B**	**Monsanto - capsule**	**18.10220048**	**144.82**	**Monsanto Research**	**117,000.00**	**6/1/1976**	**7/2/2012**	**111,222.4**
Am-241	V-672		0.113138753	0.905	Unknown	4.60	7/21/1997	7/2/2012	4.524
Am-241	Welex via L. Nelson		0.113138753	0.905	Welex	5.00E-04	5/1/1978	7/2/2012	4.77E-04
Am-241	**YY-089**		**0.113138753**	**0.905**	**Isotope Product Lab**	**10,000.00**	**5/10/2001**	**7/2/2012**	**9,894.022**
									10,424.6

Radionuclide	Source number	Form	Size (cc)	mass (grams)	Manufacturer	Activity µCi - A_o	A_o Date	A_d Date	Activity µCi - 2007
Ba-133	619-77	SS stud	0.100	0.802	Isotope Product Lab	1.00	9/3/1998	7/2/2012	0.540
Ba-133	A4-	SS stud	0.100	0.802	Isotope Product Lab	10,000.00	3/1/2002	7/2/2012	6,802.8
Ba-133	A5-554	SS stud	0.100	0.802	Isotope Product Lab	13,500.00	5/1/2002	7/2/2012	9,285.6
Ba-133	B1-621	SS stud	0.100	0.802	Isotope Product Lab	10.00	4/15/2003	7/2/2012	7.326
Ba-133	B1-622	SS stud	0.100	0.802	Isotope Product Lab	10.00	4/15/2003	7/2/2012	7.326
Ba-133	B1-623	SS stud	0.100	0.802	Isotope Product Lab	10.00	4/15/2003	7/2/2012	7.326
Ba-133	B9-482	SS stud	0.100	0.802	Isotope Product Lab	10.00	10/1/2004	7/2/2012	8.070
Ba-133	B9-483	SS stud	0.100	0.802	Isotope Product Lab	10.00	10/1/2004	7/2/2012	8.070
Ba-133	B9-484	SS stud	0.100	0.802	Isotope Product Lab	10.00	10/1/2004	7/2/2012	8.070
Ba-133	B9-485	SS stud	0.100	0.802	Isotope Product Lab	10.00	10/1/2004	7/2/2012	8.070
Ba-133	B9-486	SS stud	0.100	0.802	Isotope Product Lab	10.00	10/1/2004	7/2/2012	8.070
Ba-133	B9-487	SS stud	0.100	0.802	Isotope Product Lab	10.00	10/1/2004	7/2/2012	8.070
Ba-133	C3-464	SS stud	0.100	0.802	Isotope Product Lab	10.00	2/15/2005	7/2/2012	8.272
Ba-133	C3-465	SS stud	0.100	0.802	Isotope Product Lab	10.00	2/15/2005	7/2/2012	8.272
Ba-133	C3-466	SS stud	0.100	0.802	Isotope Product Lab	10.00	2/15/2005	7/2/2012	8.272
Ba-133	C3-467	SS stud	0.100	0.802	Isotope Product Lab	10.00	2/15/2005	7/2/2012	8.272
Ba-133	C3-468	SS stud	0.100	0.802	Isotope Product Lab	10.00	2/15/2005	7/2/2012	8.272
Ba-133	C3-469	SS stud	0.100	0.802	Isotope Product Lab	10.00	2/15/2005	7/2/2012	8.272
Ba-133	C9-809	SS stud	0.100	0.802	Isotope Product Lab	10.00	2/1/2006	7/2/2012	8.813
Ba-133	C9-810	SS stud	0.100	0.802	Isotope Product Lab	10.00	2/1/2006	7/2/2012	8.813
Ba-133	C9-811	SS stud	0.100	0.802	Isotope Product Lab	10.00	2/1/2006	7/2/2012	8.813
Ba-133	C9-812	SS stud	0.100	0.802	Isotope Product Lab	10.00	2/1/2006	7/2/2012	8.813
Ba-133	C9-813	SS stud	0.100	0.802	Isotope Product Lab	10.00	2/1/2006	7/2/2012	8.813
Ba-133	C9-814	SS stud	0.100	0.802	Isotope Product Lab	10.00	2/1/2006	7/2/2012	8.813
Ba-133	F-002	SS stud	0.100	0.802	Isotope Product Lab	10.70	5/1/1983	7/2/2012	2.100
Ba-133	LL-104	SS stud	0.100	0.802	Isotope Product Lab	10.00	7/21/1997	7/2/2012	5.018
Ba-133	LL-105	SS stud	0.100	0.802	Isotope Product Lab	10.00	7/21/1997	7/2/2012	5.018
Ba-133	LL-106	SS stud	0.100	0.802	Isotope Product Lab	10.00	7/21/1997	7/2/2012	5.018
Ba-133	LL-106	SS stud	0.100	0.802	Isotope Product Lab	10.00	7/21/1997	7/2/2012	5.018
Ba-133	LL-107	SS stud	0.100	0.802	Isotope Product Lab	10.00	7/21/1997	7/2/2012	5.018
Ba-133	LL-108	SS stud	0.100	0.802	Isotope Product Lab	10.00	7/21/1997	7/2/2012	5.018
Ba-133	LL-109	SS stud	0.100	0.802	Isotope Product Lab	10.00	7/21/1997	7/2/2012	5.018
Ba-133	LL-110	SS stud	0.100	0.802	Isotope Product Lab	10.00	7/21/1997	7/2/2012	5.018
Ba-133	LL-111	SS stud	0.100	0.802	Isotope Product Lab	10.00	7/21/1997	7/2/2012	5.018
Ba-133	LL-112	SS stud	0.100	0.802	Isotope Product Lab	10.00	7/21/1997	7/2/2012	5.018
Ba-133	MM-151	SS stud	0.100	0.802	Isotope Product Lab	10.00	2/2/1998	7/2/2012	5.199
Ba-133	MM-152	SS stud	0.100	0.802	Isotope Product Lab	10.00	2/2/1998	7/2/2012	5.199
Ba-133	MM-153	SS stud	0.100	0.802	Isotope Product Lab	10.00	2/2/1998	7/2/2012	5.199
Ba-133	MM-154	SS stud	0.100	0.802	Isotope Product Lab	10.00	2/2/1998	7/2/2012	5.199
Ba-133	MM-155	SS stud	0.100	0.802	Isotope Product Lab	10.00	2/2/1998	7/2/2012	5.199
Ba-133	MM-156	SS stud	0.100	0.802	Isotope Product Lab	10.00	2/2/1998	7/2/2012	5.199
Ba-133	PP-150	SS stud	0.100	0.802	Isotope Product Lab	10,000.00	2/4/1999	7/2/2012	5,555.4
Ba-133	PP-150-2	SS stud	0.100	0.802	Isotope Product Lab	10,000.00	2/4/1999	7/2/2012	5,555.4
Ba-133	YY-099	SS stud	0.100	0.802	Isotope Product Lab	10.00	5/11/2001	7/2/2012	6.451
Ba-133	YY-100	SS stud	0.100	0.802	Isotope Product Lab	10.00	5/11/2001	7/2/2012	6.451
Ba-133	YY-101	SS stud	0.100	0.802	Isotope Product Lab	10.00	5/11/2001	7/2/2012	6.451
Ba-133	YY-102	SS stud	0.100	0.802	Isotope Product Lab	10.00	5/11/2001	7/2/2012	6.451
Ba-133	YY-103	SS stud	0.100	0.802	Isotope Product Lab	10.00	5/11/2001	7/2/2012	6.451
Ba-133	ZZ-491	SS stud	0.100	0.802	Isotope Product Lab	10.00	7/1/2001	7/2/2012	6.511
			4.910	39.279					27,494.9

Radionuclide	Source number	Form	Size (cc)	mass (grams)	Manufacturer	Activity µCi - A_o	A_o Date	A_d Date	Activity µCi - 2007
Bi-207	12065	SS stud	0.100	0.802	Isotope Product Lab	0.10	9/1/1984	7/2/2012	0.062
Bi-207	12633	Disk	3.218168975	0.5	Isotope Product Lab	10.00	2/14/1985	7/2/2012	6.221
Bi-207	473-20	SS stud	0.100	0.802	Isotope Product Lab	10.00	12/14/1985	7/2/2012	6.329
			3.419						12.6
C-14	107A (RED)	Disk	3.218168975	1	NEL-002A	20.00	1/1/1982	7/2/2012	19.937
C-14	114C (BLUE)	Disk	3.218168975	1	NEL-002C	20.00	1/1/1982	7/2/2012	19.937
C-14	119B (GREEN)	Disk	3.218168975	1	NEL-002B	20.00	1/1/1982	7/2/2012	19.937
C-14	CSS4	Disk	3.218168975	1	Bech(k)man	1.32	1/1/1969	7/2/2012	1.314
C-14	None	Disk	3.218168975	1	Atomic Labs, Inc.	0.005	8/1/1968	7/2/2012	0.005
			16.09084487						61.1
Cd-109	KK-151	SS stud	0.100	0.802	Isotope Product Lab	10.00	1/24/1997	7/2/2012	0.026
Cd-109	KK-161	SS stud	0.100	0.802	Isotope Product Lab	10.00	1/24/1997	7/2/2012	0.026
			0.200						0.051
Co-57	KK-160	SS stud	0.100	0.802	Isotope Product Lab	20.00	1/24/1997	7/2/2012	0.001
			0.100						0.001
Co-60	E-307	stud	0.100	0.802	Isotope Product Lab	0.90	7/2/1991	7/2/2012	0.103
Co-60	D-573	SS stud	0.100	0.802	Isotope Product Lab	0.95	12/1/1980	7/2/2012	0.027
			0.200						0.130
C[s]-137	N A582 A	button	0.150851671	1.0	Isotope Product Lab	0.60	6/20/2007	7/2/2012	0.593
Cs-137	D7-438	button	0.150851671	1.0	Isotope Product Lab	10.00	10/15/2006	7/2/2012	9.725
Cs-137	R-586	button	0.150851671	1.0	Isotope Product Lab	10.00	11/5/1991	7/2/2012	6.900
Cs-137	GG-047	button	0.150851671	1.0	Isotope Product Lab	3.30	3/1/1996	7/2/2012	2.514
Cs-137	SS-537	button	0.150851671	1.0	Isotope Product Lab	10.00	4/1/2000	7/2/2012	8.369
Cs-137	SS-534	button	0.150851671	1.0	Isotope Product Lab	10.00	4/1/2000	7/2/2012	8.369
Cs-137	NN-854	button	0.150851671	1.0	Isotope Product Lab	10.00	10/12/1998	7/2/2012	8.091
Cs-137	MM-457	button	0.150851671	1.0	Isotope Product Lab	10.00	3/16/1998	7/2/2012	7.985
Cs-137	MM-461	button	0.150851671	1.0	Isotope Product Lab	10.00	3/16/1998	7/2/2012	7.985
Cs-137	R-588	button	0.150851671	1.0	***Isotope Product Lab***	10.00	***11/5/1991***	7/2/2012	6.900
Cs-137	MM-464	button	0.150851671	1.0	Isotope Product Lab	10.00	3/16/1998	7/2/2012	7.985
Cs-137	MM-463	button	0.150851671	1.0	Isotope Product Lab	10.00	3/16/1998	7/2/2012	7.985
Cs-137	MM-462	button	0.150851671	1.0	Isotope Product Lab	10.00	3/16/1998	7/2/2012	7.985
Cs-137	D-867	pellet	0.113138753	0.905	Isotope Product Lab	13.10	6/1/1961	7/2/2012	4.493
Cs-137	B8-483	button	0.150851671	1.0	Isotope Product Lab	0.50	7/1/2004	7/2/2012	0.461
Cs-137	EE-124	button	0.150851671	1.0	Isotope Product Lab	2.70	7/1/1995	7/2/2012	2.026
Cs-137	GG-026	button	0.150851671	1.0	Isotope Product Lab	1.10	3/1/1996	7/2/2012	0.838
Cs-137	D7-439	button	0.150851671	1.0	Isotope Product Lab	10.00	10/15/2006	7/2/2012	9.725
Cs-137	GG-044	button	0.150851671	1.0	Isotope Product Lab	3.30	3/1/1996	7/2/2012	2.514
Cs-137	R-167	button	0.150851671	1.0	***Isotope Product Lab***	1.00	***11/5/1991***	7/2/2012	0.690
Cs-137	MM-458	button	0.150851671	1.0	Isotope Product Lab	10.00	3/16/1998	7/2/2012	7.985
Cs-137	LL-117	button	0.150851671	1.0	Isotope Product Lab	10.00	7/21/1997	7/2/2012	7.866
Cs-137	SS-536	button	0.150851671	1.0	Isotope Product Lab	10.00	4/1/2000	7/2/2012	8.369
Cs-137	B8-482	button	0.150851671	1.0	Isotope Product Lab	0.50	7/1/2004	7/2/2012	0.461
Cs-137	SS-538	button	0.150851671	1.0	Isotope Product Lab	10.00	4/1/2000	7/2/2012	8.369
Cs-137	B6-924	button	0.150851671	1.0	Isotope Product Lab	3.00	***4/1/2000***	7/2/2012	2.511
Cs-137	EE-121	button	0.150851671	1.0	Isotope Product Lab	2.70	10/26/1995	7/2/2012	2.041
Cs-137	GG-050	button	0.150851671	1.0	Isotope Product Lab	3.30	7/21/1997	7/2/2012	2.596
Cs-137	LL-118	button	0.150851671	1.0	Isotope Product Lab	10.00	7/21/1997	7/2/2012	7.866
Cs-137	R-588	button	0.150851671	1.0	Isotope Product Lab	11.29	11/5/1991	7/2/2012	7.790
Cs-137	R-587	button	0.150851671	1.0	Isotope Product Lab	11.71	11/5/1991	7/2/2012	8.080
Cs-137	R-586	button	0.150851671	1.0	Isotope Product Lab	11.29	11/5/1991	7/2/2012	7.790
Cs-137	F-077	button	0.150851671	1.0	Isotope Product Lab	10.00	6/1/1983	7/2/2012	5.685
Cs-137	MM-456	button	0.150851671	1.0	Isotope Product Lab	10.00	3/16/1998	7/2/2012	7.985
Cs-137	MM-455	button	0.150851671	1.0	Isotope Product Lab	10.00	3/16/1998	7/2/2012	7.985
Cs-137	LL-116	button	0.150851671	1.0	Isotope Product Lab	10.00	7/21/1997	7/2/2012	7.866
Cs-137	GG-047	button	0.150851671	1.0	Isotope Product Lab	3.30	3/1/1996	7/2/2012	2.514
Cs-137	LL-120	button	0.150851671	1.0	Isotope Product Lab	10.00	7/21/1997	7/2/2012	7.866
Cs-137	LL-119	button	0.150851671	1.0	Isotope Product Lab	10.00	7/21/1997	7/2/2012	7.866
Cs-137	MM-459	button	0.150851671	1.0	Isotope Product Lab	10.00	3/16/1998	7/2/2012	7.985
Cs-137	T-385	button	0.150851671	1.0	Isotope Product Lab	0.05	7/1/1992	7/2/2012	0.035
Cs-137	F-111	stud	0.100	0.802	Isotope Product Lab	10.00	8/1/1983	7/2/2012	5.707
Cs-137	E-306	stud	0.100	0.802	Isotope Product Lab	9.00	6/20/2007	7/2/2012	8.890
Cs-137	E-305	stud	0.100	0.802	Isotope Product Lab	9.00	6/20/2007	7/2/2012	8.890
Cs-137	353	button	0.150851671	1.0	Isotope Product Lab	0.15	4/1/1992	7/2/2012	0.104
Cs-137	C2-716	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	A9-454	button	0.150851671	1.0	Isotope Product Lab	1.00	2/1/2003	7/2/2012	0.893
Cs-137	A9-453	button	0.150851671	1.0	Isotope Product Lab	1.00	2/1/2003	7/2/2012	0.893
Cs-137	A9-472	button	0.150851671	1.0	Isotope Product Lab	1.00	2/1/2003	7/2/2012	0.893

Radionuclide	Source number	Form	Size (cc)	mass (grams)	Manufacturer	Activity µCi - A_o	A_o Date	A_d Date	Activity µCi - 2007
Cs-137	A9-470	button	0.150851671	1.0	Isotope Product Lab	1.00	2/1/2003	7/2/2012	0.893
Cs-137	A9-469	button	0.150851671	1.0	Isotope Product Lab	1.00	2/1/2003	7/2/2012	0.893
Cs-137	C2-712	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	C8-510	button	0.150851671	1.0	Isotope Product Lab	1.00	10/15/2005	7/2/2012	0.950
Cs-137	C2-728	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	A9-465	button	0.150851671	1.0	Isotope Product Lab	1.00	2/1/2003	7/2/2012	0.893
Cs-137	N A580 A	button	0.150851671	1.0	Isotope Product Lab	0.60	11/7/2005	7/2/2012	0.571
Cs-137	C2-730	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	C2-729	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	C2-725	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	C5-756	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2005	7/2/2012	0.944
Cs-137	A9-468	button	0.150851671	1.0	Isotope Product Lab	1.00	2/1/2003	7/2/2012	0.893
Cs-137	C1-658	button	0.150851671	1.0	Isotope Product Lab	1.00	1/2/2004	7/2/2012	0.912
Cs-137	B5-796	button	0.150851671	1.0	Isotope Product Lab	1.00	1/2/2004	7/2/2012	0.912
Cs-137	C8-517	button	0.150851671	1.0	Isotope Product Lab	10.00	10/15/2005	7/2/2012	9.505
Cs-137	C8-516	button	0.150851671	1.0	Isotope Product Lab	10.00	10/15/2005	7/2/2012	9.505
Cs-137	B5-802	button	0.150851671	1.0	Isotope Product Lab	1.00	1/2/2004	7/2/2012	0.912
Cs-137	B5-804	button	0.150851671	1.0	Isotope Product Lab	1.00	1/2/2004	7/2/2012	0.912
Cs-137	B5-806	button	0.150851671	1.0	Isotope Product Lab	1.00	1/2/2004	7/2/2012	0.912
Cs-137	B5-808	button	0.150851671	1.0	Isotope Product Lab	1.00	1/2/2004	7/2/2012	0.912
Cs-137	C8-508	button	0.150851671	1.0	Isotope Product Lab	10.00	10/15/2005	7/2/2012	9.505
Cs-137	C1-653	button	0.150851671	1.0	Isotope Product Lab	1.00	1/2/2004	7/2/2012	0.912
Cs-137	C8-509	button	0.150851671	1.0	Isotope Product Lab	10.00	10/15/2005	7/2/2012	9.505
Cs-137	C8-515	button	0.150851671	1.0	Isotope Product Lab	10.00	10/15/2005	7/2/2012	9.505
Cs-137	C2-714	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	C2-707	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	C8-514	button	0.150851671	1.0	Isotope Product Lab	10.00	10/15/2005	7/2/2012	9.505
Cs-137	C8-513	button	0.150851671	1.0	Isotope Product Lab	10.00	10/15/2005	7/2/2012	9.505
Cs-137	C8-512	button	0.150851671	1.0	Isotope Product Lab	10.00	10/15/2005	7/2/2012	9.505
Cs-137	C8-511	button	0.150851671	1.0	Isotope Product Lab	10.00	10/15/2005	7/2/2012	9.505
Cs-137	C2-723	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	C1-647	button	0.150851671	1.0	Isotope Product Lab	1.00	1/2/2004	7/2/2012	0.912
Cs-137	A6-489	button	0.150851671	1.0	Isotope Product Lab	10.00	***6/20/2007***	7/2/2012	9.878
Cs-137	A8-210	button	0.150851671	1.0	Isotope Product Lab	1.00	11/1/2002	7/2/2012	0.888
Cs-137	A8-200	button	0.150851671	1.0	Isotope Product Lab	10.00	11/1/2002	7/2/2012	8.881
Cs-137	C2-312	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	C5-768	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2005	7/2/2012	0.944
Cs-137	C5-767	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2005	7/2/2012	0.944
Cs-137	C2-710	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	C4-379	button	0.150851671	1.0	Isotope Product Lab	1.00	5/1/2005	7/2/2012	0.941
Cs-137	C2-738	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	C5-756	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2005	7/2/2012	0.944
Cs-137	C5-757	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2005	7/2/2012	0.944
Cs-137	C5-751	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2005	7/2/2012	0.944
Cs-137	C5-753	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2005	7/2/2012	0.944
Cs-137	C5-754	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2005	7/2/2012	0.944
Cs-137	C5-755	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2005	7/2/2012	0.944
Cs-137	C2-611	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	C3-205	button	0.150851671	1.0	Isotope Product Lab	1.00	2/1/2005	7/2/2012	0.935
Cs-137	C2-709	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	C2-706	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	C2-711	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	C2-713	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	C2-708	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	C2-715	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	C2-745	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	C2-743	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	C2-744	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	C2-731	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	C2-739	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	C3-204	button	0.150851671	1.0	Isotope Product Lab	1.00	2/1/2005	7/2/2012	0.935
Cs-137	C2-736	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	N A581 A	button	0.150851671	1.0	Isotope Product Lab	0.60	11/7/2006	7/2/2012	0.584

Radionuclide	Source number	Form	Size (cc)	mass (grams)	Manufacturer	Activity µCi - A_o	A_o Date	A_1 Date	Activity µCi - 2007
Cs-137	C2-737	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	C2-732	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	B1-718	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2003	7/2/2012	0.902
Cs-137	B1-700	button	0.150851671	1.0	Isotope Product Lab	1.00	9/4/2003	7/2/2012	0.905
Cs-137	B1-701	button	0.150851671	1.0	Isotope Product Lab	1.00	9/4/2003	7/2/2012	0.905
Cs-137	B1-702	button	0.150851671	1.0	Isotope Product Lab	1.00	9/4/2003	7/2/2012	0.905
Cs-137	B1-703	button	0.150851671	1.0	Isotope Product Lab	1.00	9/4/2003	7/2/2012	0.905
Cs-137	B1-704	button	0.150851671	1.0	Isotope Product Lab	1.00	9/4/2003	7/2/2012	0.905
Cs-137	B1-705	button	0.150851671	1.0	Isotope Product Lab	1.00	9/4/2003	7/2/2012	0.905
Cs-137	B1-706	button	0.150851671	1.0	Isotope Product Lab	1.00	9/4/2003	7/2/2012	0.905
Cs-137	B1-707	button	0.150851671	1.0	Isotope Product Lab	1.00	9/4/2003	7/2/2012	0.905
Cs-137	B1-708	button	0.150851671	1.0	Isotope Product Lab	1.00	9/4/2003	7/2/2012	0.905
Cs-137	B5-795	button	0.150851671	1.0	Isotope Product Lab	1.00	1/2/2004	7/2/2012	0.912
Cs-137	B1-711	button	0.150851671	1.0	Isotope Product Lab	1.00	9/4/2003	7/2/2012	0.905
Cs-137	A9-473	button	0.150851671	1.0	Isotope Product Lab	1.00	7/30/2003	7/2/2012	0.903
Cs-137	B1-720	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2003	7/2/2012	0.902
Cs-137	B1-723	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2003	7/2/2012	0.902
Cs-137	B1-724	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2003	7/2/2012	0.902
Cs-137	B1-725	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2003	7/2/2012	0.902
Cs-137	B1-726	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2003	7/2/2012	0.902
Cs-137	B1-727	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2003	7/2/2012	0.902
Cs-137	B1-729	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2003	7/2/2012	0.902
Cs-137	B1-710	button	0.150851671	1.0	Isotope Product Lab	1.00	9/4/2003	7/2/2012	0.905
Cs-137	A9-455	button	0.150851671	1.0	Isotope Product Lab	1.00	2/1/2003	7/2/2012	0.893
Cs-137	A9-447	button	0.150851671	1.0	Isotope Product Lab	1.00	4/10/2003	7/2/2012	0.897
Cs-137	A9-448	button	0.150851671	1.0	Isotope Product Lab	1.00	4/10/2003	7/2/2012	0.897
Cs-137	A9-476	button	0.150851671	1.0	Isotope Product Lab	1.00	7/30/2003	7/2/2012	0.903
Cs-137	A9-452	button	0.150851671	1.0	Isotope Product Lab	1.00	2/1/2003	7/2/2012	0.893
Cs-137	A9-474	button	0.150851671	1.0	Isotope Product Lab	1.00	7/30/2003	7/2/2012	0.903
Cs-137	A9-456	button	0.150851671	1.0	Isotope Product Lab	1.00	2/1/2003	7/2/2012	0.893
Cs-137	A9-457	button	0.150851671	1.0	Isotope Product Lab	1.00	2/1/2003	7/2/2012	0.893
Cs-137	A9-458	button	0.150851671	1.0	Isotope Product Lab	1.00	2/1/2003	7/2/2012	0.893
Cs-137	A9-459	button	0.150851671	1.0	Isotope Product Lab	1.00	2/1/2003	7/2/2012	0.893
Cs-137	A9-460	button	0.150851671	1.0	Isotope Product Lab	1.00	2/1/2003	7/2/2012	0.893
Cs-137	A9-463	button	0.150851671	1.0	Isotope Product Lab	1.00	2/1/2003	7/2/2012	0.893
Cs-137	A9-464	button	0.150851671	1.0	Isotope Product Lab	1.00	7/30/2003	7/2/2012	0.903
Cs-137	B1-736	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2003	7/2/2012	0.902
Cs-137	A9-451	button	0.150851671	1.0	Isotope Product Lab	1.00	4/10/2003	7/2/2012	0.897
Cs-137	B1-734	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2003	7/2/2012	0.902
Cs-137	B4-525	button	0.150851671	1.0	Isotope Product Lab	1.00	12/1/2003	7/2/2012	0.910
Cs-137	KK-972	button	0.150851671	1.0	Isotope Product Lab	10.00	6/25/1997	7/2/2012	7.854
Cs-137	A8-203	button	0.150851671	1.0	Isotope Product Lab	1.00	11/1/2002	7/2/2012	0.888
Cs-137	SS-536	button	0.150851671	1.0	Isotope Product Lab	9.90	4/1/2000	7/2/2012	8.285
Cs-137	B4-518	button	0.150851671	1.0	Isotope Product Lab	1.00	12/1/2003	7/2/2012	0.910
Cs-137	OU 151 A	button	0.150851671	1.0	Isotope Product Lab	0.60	6/20/2007	7/2/2012	0.593
Cs-137	B5-794	button	0.150851671	1.0	Isotope Product Lab	1.00	1/2/2004	7/2/2012	0.912
Cs-137	C2-724	button	0.150851671	1.0	Isotope Product Lab	1.00	1/1/2005	7/2/2012	0.933
Cs-137	B4-513	button	0.150851671	1.0	Isotope Product Lab	1.00	12/1/2003	7/2/2012	0.910
Cs-137	B1-737	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2003	7/2/2012	0.902
Cs-137	B1-738	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2003	7/2/2012	0.902
Cs-137	B1-739	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2003	7/2/2012	0.902
Cs-137	B1-745	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2003	7/2/2012	0.902
Cs-137	B1-746	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2003	7/2/2012	0.902
Cs-137	B1-747	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2003	7/2/2012	0.902
Cs-137	B4-523	button	0.150851671	1.0	Isotope Product Lab	1.00	12/1/2003	7/2/2012	0.910
Cs-137	B4-512	button	0.150851671	1.0	Isotope Product Lab	1.00	12/1/2003	7/2/2012	0.910
Cs-137	B1-735	button	0.150851671	1.0	Isotope Product Lab	1.00	7/1/2003	7/2/2012	0.902
Cs-137	B4-516	button	0.150851671	1.0	Isotope Product Lab	1.00	12/1/2003	7/2/2012	0.910
Cs-137	N A582 A	button	0.150851671	1.0	Isotope Product Lab	0.60	11/7/2005	7/2/2012	0.571
Cs-137	OU 145 A	button	0.150851671	1.0	Isotope Product Lab	0.60	6/20/2007	7/2/2012	0.593
Cs-137	OU 146 A	button	0.150851671	1.0	Isotope Product Lab	0.60	6/20/2007	7/2/2012	0.593
Cs-137	OU 147 A	button	0.150851671	1.0	Isotope Product Lab	0.60	6/20/2007	7/2/2012	0.593
Cs-137	OU 148 A	button	0.150851671	1.0	Isotope Product Lab	0.60	6/20/2007	7/2/2012	0.593
Cs-137	OU 149 A	button	0.150851671	1.0	Isotope Product Lab	0.60	6/20/2007	7/2/2012	0.593
Cs-137	OU 150 A	button	0.150851671	1.0	Isotope Product Lab	0.60	6/20/2007	7/2/2012	0.593
Cs-137	B4-510	button	0.150851671	1.0	Isotope Product Lab	1.00	12/1/2003	7/2/2012	0.910

Radionuclide	Source number	Form	Size (cc)	mass (grams)	Manufacturer	Activity µCi - A_o	A_o Date	A_t Date	Activity µCi - 2007
Cs-137	ET-584	button	0.150851671	1.0	Amersham	9.00	10/26/1995	7/2/2012	6.803
Cs-137	ET-585	button	0.150851671	1.0	Amersham	9.00	10/26/1995	7/2/2012	6.803
Cs-137	ET-586	button	0.150851671	1.0	Amersham	9.00	10/26/1995	7/2/2012	6.803
Cs-137	ET-587	button	0.150851671	1.0	Amersham	9.00	10/26/1995	7/2/2012	6.803
Cs-137	ET-588	button	0.150851671	1.0	Amersham	9.00	10/26/1995	7/2/2012	6.803
Cs-137	ET-583	button	0.150851671	1.0	Amersham	9.00	10/26/1995	7/2/2012	6.803
Cs-137	ET-582	button	0.150851671	1.0	Amersham	9.00	10/26/1995	7/2/2012	6.803
Cs-137	SS-538	button	0.150851671	1.0	Amersham	9.90	***6/20/2007***	7/2/2012	9.779
Cs-137	UH-9	pellet	0.113138753	0.905	Amersham	1.00	6/1/1984	7/2/2012	0.582
Cs-137	UH-10	pellet	0.113138753	0.905	Amersham	1.00	6/1/1984	7/2/2012	0.582
Cs-137	UH-11	pellet	0.113138753	0.905	Amersham	1.00	6/1/1984	7/2/2012	0.582
Cs-137	UH-12	pellet	0.113138753	0.905	Amersham	1.00	6/1/1984	7/2/2012	0.582
Cs-137	UH-14	pellet	0.113138753	0.905	Amersham	1.00	6/1/1984	7/2/2012	0.582
Cs-137	UH-15	pellet	0.113138753	0.905	Amersham	1.00	6/1/1984	7/2/2012	0.582
Cs-137	RR-855	button	0.150851671	1.0	Amersham	9.90	2/18/2000	7/2/2012	8.263
Cs-137	RD-9	pellet	0.113138753	0.905	Amersham	0.70	2/1/1981	7/2/2012	0.377
Cs-137	RD-7	pellet	0.113138753	0.905	Amersham	0.70	2/1/1981	7/2/2012	0.377
Cs-137	RC-89	button	0.150851671	1.0	Amersham	1.00	7/2/1991	7/2/2012	0.685
Cs-137	RC-88	button	0.150851671	1.0	Amersham	1.00	7/2/1991	7/2/2012	0.685
Cs-137	OG-12	pellet	0.113138753	0.905	Amersham	1.00	9/1/1981	7/2/2012	0.546
Cs-137	OG-13	pellet	0.113138753	0.905	Amersham	1.00	9/1/1981	7/2/2012	0.546
Cs-137	OG-14	pellet	0.113138753	0.905	Amersham	1.00	9/1/1981	7/2/2012	0.546
Cs-137	OG-17	pellet	0.113138753	0.905	Amersham	1.00	9/1/1981	7/2/2012	0.546
Cs-137	LW-44	pellet	0.113138753	0.905	Amersham	0.90	8/1/1981	7/2/2012	0.491
Cs-137	RD-8	pellet	0.113138753	0.905	Amersham	0.70	2/1/1981	7/2/2012	0.377
Cs-137	UH-8	button	0.150851671	1.0	Amersham	1.00	6/1/1984	7/2/2012	0.582
Cs-137	ET-589	button	0.150851671	1.0	Amersham	9.00	10/26/1995	7/2/2012	6.803
Cs-137	LWD P/N 602-	button	0.150851671	1.0	Amersham	1.00	6/1/1984	7/2/2012	0.582
Cs-137	5785 GR	button	0.150851671	1.0	Amersham	1,000.00	3/17/1987	7/2/2012	620.249
Cs-137	LW-45	button	0.150851671	1.0	Amersham	0.90	8/1/1981	7/2/2012	0.491
Cs-137	ET-590	button	0.150851671	1.0	Amersham	9.00	10/26/1995	7/2/2012	6.803
Cs-137	ET-591	button	0.150851671	1.0	Amersham	9.00	10/26/1995	7/2/2012	6.803
Cs-137	ET-592	button	0.150851671	1.0	Amersham	9.00	10/26/1995	7/2/2012	6.803
Cs-137	ET-593	button	0.150851671	1.0	Amersham	9.00	10/26/1995	7/2/2012	6.803
Cs-137	HT-118	button	0.150851671	1.0	AEA Technology	9.00	3/28/2001	7/2/2012	7.705
Cs-137	HT-116	button	0.150851671	1.0	AEA Technology	9.00	3/28/2001	7/2/2012	7.705
Cs-137	HT-114	button	0.150851671	1.0	AEA Technology	9.00	3/28/2001	7/2/2012	7.705
Cs-137	HT-113	button	0.150851671	1.0	AEA Technology	9.00	3/28/2001	7/2/2012	7.705
Cs-137	LB-130	button	0.150851671	1.0	AEA Technology	0.60	5/13/2003	7/2/2012	0.539
Cs-137	LB-131	button	0.150851671	1.0	AEA Technology	0.60	5/13/2003	7/2/2012	0.539
Cs-137	LB-132	button	0.150851671	1.0	AEA Technology	0.60	5/13/2003	7/2/2012	0.539
Cs-137	LB-133	button	0.150851671	1.0	AEA Technology	0.60	5/13/2003	7/2/2012	0.539
Cs-137	LB-134	button	0.150851671	1.0	AEA Technology	0.60	5/13/2003	7/2/2012	0.539
Cs-137	HT-117	button	0.150851671	1.0	AEA Technology	9.00	3/28/2001	7/2/2012	7.705
Cs-137	HT-115	button	0.150851671	1.0	AEA Technology	9.00	3/28/2001	7/2/2012	7.705
Cs-137	NB-350	button	0.150851671	1.0	AEA Technology	9.00	1/18/2005	7/2/2012	8.410
Cs-137	NX-322	button	0.150851671	1.0	AEA Technology	9.00	1/19/2006	7/2/2012	8.606
Cs-137	MS-609	button	0.150851671	1.0	AEA Technology	9.00	9/9/2004	7/2/2012	8.341
Cs-137	NX-327	button	0.150851671	1.0	AEA Technology	9.00	1/19/2006	7/2/2012	8.606
Cs-137	NX-325	button	0.150851671	1.0	AEA Technology	9.00	1/19/2006	7/2/2012	8.606
Cs-137	MS-610	button	0.150851671	1.0	AEA Technology	9.00	9/9/2004	7/2/2012	8.341
Cs-137	MS-611	button	0.150851671	1.0	AEA Technology	9.00	9/9/2004	7/2/2012	8.341
Cs-137	MS-612	button	0.150851671	1.0	AEA Technology	9.00	9/9/2004	7/2/2012	8.341
Cs-137	MS-613	button	0.150851671	1.0	AEA Technology	9.00	9/9/2004	7/2/2012	8.341
Cs-137	MS-614	button	0.150851671	1.0	AEA Technology	9.00	9/9/2004	7/2/2012	8.341
Cs-137	NX-324	button	0.150851671	1.0	AEA Technology	9.00	1/19/2006	7/2/2012	8.606
Cs-137	NX-326	button	0.150851671	1.0	AEA Technology	9.00	1/19/2006	7/2/2012	8.606
Cs-137	NX-323	button	0.150851671	1.0	AEA Technology	9.00	1/19/2006	7/2/2012	8.606
Cs-137	N/A	pellet	0.113138753	0.905	Atomic Chemical Corp.	5.30	4/1/1970	7/2/2012	2.227
Cs-137	RI-67	button	0.150851671	1.0	Schlumberger	1.00	7/2/1991	7/2/2012	0.685
Cs-137	GG-050	button	0.150851671	1.0	N/A	3.30	***6/20/2007***	7/2/2012	3.260
Cs-137	RI-68	button	0.150851671	1.0	Schlumberger	1.00	7/2/1991	7/2/2012	0.685
Cs-137	F-851	button	0.150851671	1.0	Bicron (Saint-Gobain)	70.00	3/1/1997	7/2/2012	54.575
Cs-137	R-666	button	0.150851671	1.0	Bicron (Saint-Gobain)	70.00	3/1/1997	7/2/2012	54.575
Cs-137	A-1282	button	0.150851671	1.0	CIS	0.60	***6/20/2007***	7/2/2012	0.593
Cs-137	ENP-000	button	0.150851671	1.0	N/A	0.15	4/1/1992	7/2/2012	0.104
Cs-137	FW-244	button	0.150851671	1.0	SLB LDT #2	0.90	***6/20/2007***	7/2/2012	0.889
Cs-137	UBK-7/768RR	crystal	0.150851671	0.5	Bicron (Saint-Gobain)	0.90	7/1/1984	7/2/2012	0.525
Cs-137	RI-70	button	0.150851671	1.0	Schlumberger	1.00	***6/20/2007***	7/2/2012	0.988
Cs-137	FW-243	button	0.150851671	1.0	SLB LDT #2	0.90	***6/20/2007***	7/2/2012	0.889
Cs-137	Z-258	button	0.150851671	1.0	N/A	1.00	11/1/1993	7/2/2012	0.722
Cs-137	F-661	button	0.150851671	1.0	N/A	3.00	3/1/1997	7/2/2012	2.339
Cs-137	Z-259	button	0.150851671	1.0	N/A	1.10	11/1/1993	7/2/2012	0.794
Cs-137	SS-535	button	0.150851671	1.0	N/A	9.90	***6/20/2007***	7/2/2012	9.779
Cs-137	A3-528	button	0.150851671	1.0	US Navy	10.00	4/12/1960	7/2/2012	3.342
			3.74E+01						1,516.5

Radionuclide	Source number	Form	Size (cc)	mass (grams)	Manufacturer	Activity µCi - A_o	A_o Date	A_d Date	Activity µCi - 2007
Gd-153	NN-857	button	0.150851671	1.0	Isotope Product Lab	10.00	10/12/2001	7/2/2012	0.015
Gd-153	PP-149	button	0.150851671	1.0	Isotope Product Lab	120,000.00	2/4/1999	7/2/2012	10.638
Gd-153	A2-594	button	0.150851671	1.0	Isotope Product Lab	10.00	10/12/2001	7/2/2012	0.015
Gd-153	NN-855	button	0.150851671	1.0	Isotope Product Lab	10.00	10/12/2001	7/2/2012	0.015
Gd-153	NN-858	button	0.150851671	1.0	Isotope Product Lab	10.00	10/12/2001	7/2/2012	0.015
Gd-153	NN-856	button	0.150851671	1.0	Isotope Product Lab	10.00	10/12/2001	7/2/2012	0.015
Gd-153	B9-480	button	0.150851671	1.0	Isotope Product Lab	10.00	10/1/2004	7/2/2012	0.332
Gd-153	B9-481	button	0.150851671	1.0	Isotope Product Lab	10.00	10/1/2004	7/2/2012	0.332
Gd-153	C3-462	button	0.150851671	1.0	Isotope Product Lab	10.00	2/15/2005	7/2/2012	0.492
Gd-153	C3-463	button	0.150851671	1.0	Isotope Product Lab	10.00	2/15/2005	7/2/2012	0.492
Gd-153	A2-595	button	0.150851671	1.0	Isotope Product Lab	10.00	10/12/2001	7/2/2012	0.015
Gd-153	JJ-831	button	0.150851671	1.0	Isotope Product Lab	10.00	12/12/1996	7/2/2012	9.35E-05
			1.810220048						12.4
Na-22	A1-976	button	0.150851671	1.0	Isotope Product Lab	9.90	9/15/2001	7/2/2012	1.852
Na-22	B8-667	button	0.150851671	1.0	Isotope Product Lab	9.90	6/29/2004	7/2/2012	3.890
Na-22	PP-042	button	0.150851671	1.0	Isotope Product Lab	2.50E-03	12/1/1998	7/2/2012	2.224E-04
Na-22	1052-50	button	0.150851671	1.0	Isotope Product Lab	8.54	5/15/2004	7/2/2012	3.247
Na-22	N/A	button	0.150851671	1.0	Isotope Product Lab	4.00	***6/20/2007***	7/2/2012	3.470
			7.54E-01						12.5
Sr-90	F-748	Disk	3.218168975	0.5	Isotope Product Lab	1,000.00	7/1/1984	7/2/2012	566.054
									566.054
Th-228	E-351	stud	0.100	0.802	Isotope Product Lab	10.00	3/1/1982	7/2/2012	8.621E-04
									0.0009
Th-232	A-1202	stud	0.100	0.802	Schlumberger	1.70	12/19/2002	7/2/2012	1.700
Th-232	N/A	stud	0.100	0.802	Schlumberger	***2.00***	10/8/1993	7/2/2012	2.000
Th-232	GSR-1194	stud	0.100	0.802	Schlumberger	***2.00***	***6/20/2007***	7/2/2012	2.000
Th-232	GSR-66/13	stud	0.100	0.802	Schlumberger	***2.00***	***6/20/2007***	7/2/2012	2.000
Th-232	N/A	stud	0.100	0.802	Schlumberger	***2.00***	***6/20/2007***	7/2/2012	2.000
Th-232	A-1194	stud	0.100	0.802	Schlumberger	1.70	10/6/1993	7/2/2012	1.700
			0.601	4.810					11.4
Tritium	FZ-969	button	0.150851671	1.0	Nycomed/Amersham	0.14	5/15/1997	7/2/2012	0.074
									0.074
Zn-65	Z-363	stud	0.100	0.802	Isotope Product Lab	9.00	2/25/1994	7/2/2012	5.192E-06
Zn-65	LL-526	stud	0.100	0.802	Isotope Product Lab	10.00	10/1/1997	7/2/2012	2.409E-04
Zn-65	C9-859	stud	0.100	0.802	Isotope Product Lab	10.00	1/1/2006	7/2/2012	1.258
Zn-65	LL-528	stud	0.100	0.802	Isotope Product Lab	10.00	10/1/1997	7/2/2012	2.409E-04
Zn-65	QQ-296	stud	0.100	0.802	Isotope Product Lab	10.00	8/3/1999	7/2/2012	0.002
Zn-65	A9-141	stud	0.100	0.802	Isotope Product Lab	10.00	1/1/2003	7/2/2012	0.056
Zn-65	A9-140	stud	0.100	0.802	Isotope Product Lab	10.00	1/1/2003	7/2/2012	0.056
Zn-65	QQ-295	stud	0.100	0.802	Isotope Product Lab	10.00	8/3/1999	7/2/2012	0.002
Zn-65	QQ-294	stud	0.100	0.802	Isotope Product Lab	10.00	8/3/1999	7/2/2012	0.002
Zn-65	LL-527	stud	0.100	0.802	Isotope Product Lab	10.00	10/1/1997	7/2/2012	2.41E-04
Zn-65	C9-715	stud	0.100	0.802	Isotope Product Lab	10.00	1/1/2006	7/2/2012	1.258
Zn-65	C1-034	stud	0.100	0.802	Isotope Product Lab	10.00	9/8/2004	7/2/2012	0.322
Zn-65	C3-470	stud	0.100	0.802	Isotope Product Lab	10.00	3/1/2005	7/2/2012	0.527
Zn-65	C3-471	stud	0.100	0.802	Isotope Product Lab	10.00	3/1/2005	7/2/2012	0.527
Zn-65	A8-766	stud	0.100	0.802	Isotope Product Lab	10.00	12/3/2002	7/2/2012	0.052
Zn-65	A8-763	stud	0.100	0.802	Isotope Product Lab	10.00	12/3/2002	7/2/2012	0.052
Zn-65	YY-925	stud	0.100	0.802	Isotope Product Lab	10.00	5/29/2001	7/2/2012	0.011
Zn-65	YY-926	stud	0.100	0.802	Isotope Product Lab	10.00	5/29/2001	7/2/2012	0.011
Zn-65	B9-468	stud	0.100	0.802	Isotope Product Lab	10.00	9/8/2004	7/2/2012	0.322
Zn-65	A9-011	stud	0.100	0.802	Isotope Product Lab	10.00	1/3/2004	7/2/2012	0.159
Zn-65	A9-140	stud	0.100	0.802	Isotope Product Lab	10.00	1/4/2004	7/2/2012	0.159
Zn-65	A9-141	stud	0.100	0.802	Isotope Product Lab	10.00	1/5/2004	7/2/2012	0.160
Zn-65	Z-355	stud	0.100	0.802	Isotope Product Lab	9.00	2/25/1994	7/2/2012	5.19E-06
Zn-65	YY-924	stud	0.100	0.802	Isotope Product Lab	10.00	5/29/2001	7/2/2012	0.011
Zn-65	291	1" Disk	0.772360554	1.0	Dupont NEN	9.00	1/23/1992	7/2/2012	5.93E-07
Zn-65	H-260740-148	1" Disk	0.772360554	1.0	Dupont NEN	9.00	8/31/1990	7/2/2012	1.39E-07
Zn-65	H-260740-149	1" Disk	0.772360554	1.0	Dupont NEN	9.00	8/31/1990	7/2/2012	1.39E-07
Zn-65	292	1" Disk	0.772360554	1.0	Dupont NEN	9.00	1/23/1992	7/2/2012	5.93E-07
			5.494						4.943

Note: Activities are expressed for 2007. Disposal activities are estimated for 2012.

This is to acknowledge the receipt of your letter/application dated

3/11/2008, and to inform you that the initial processing which includes an administrative review has been performed.

☑ FINANCIAL ASSURANCE 29-08636-02
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

☐ Please provide to this office within 30 days of your receipt of this card

_____.

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 142225.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.

NRC FORM 532 (RI)
(6-96)

Sincerely,
Licensing Assistance Team Leader