

APPENDIX B

INVENTORY REPORT

**(Summary of Radionuclides, Forms & Maximum Activities Used
& Dispositioned Under Previous Licenses)**

Thermo Eberline LLC Inventory Report

This report summarizes the inventory for Thermo Eberline LLC located at 5981 Airport Road, Santa Fe, New Mexico.

Prior to 1987, the Radioactive Material License for the Eberline Instrument Corporation (which subsequently became Thermo Eberline LLC) combined two Eberline facilities – one in Albuquerque, NM and one in Santa Fe, NM. The first license issued to only the Santa Fe facility was issued on December 11, 1987 (License NM-EIC-GL-00).

Radioactive Material License #CS067-25 (amendment 25) issued on May 12, 2006 to Thermo Eberline Instrument Corp. (corrected to Thermo Eberline LLC by CS067-30), was used as a basis for the license inventory outlined in Table 1. Line items A through W described in the following table were all part of the original Santa Fe license. Line items X – NN were subsequently added to the license as noted in the “Amendment (Date)” column of the table.

License #CS067-25 (amendment 25) was used because it was the license amendment in effect during the facility's prior entry into the decommissioning process, and at the time the New Mexico Environment Department issued Settlement Agreement and Stipulated Final Order RCB 07-15 (Aug. 7, 2007), affirming the company's records of receipt and transfer of all radioactive materials were satisfactory. Subsequent amendments removed line items from the license, but did not add any additional items.

Table 1 provides a summary of the disposition of sources identified on the Radioactive Material License #CS067-25.

The Authorized Uses from the License are abbreviated in Table 1. The full description of the authorized uses are as follows:

- A. through N. For use in research and development, instrument and detector calibration and demonstrations.
- O. For use in calibrating radon measuring instruments.
- P. For distribution to authorized recipients of Eberline Models RD19, RD-20, RD-21, RD-22 and RDA-2X.
- Q. through BB. For distribution of calibration and reference sources to persons specifically licensed to receive such sources in accordance with New Mexico Radiation Protection Regulations, Part 3 Section 315, or equivalent provisions, or regulations of the U.S. Nuclear Regulatory Commission or any Agreement State.
- CC. For use in Eberline Model SPING 3 for energy studies.
- DD. For use in calibrating the Model DD-100 dosimeters, and Eberline Model DR-200R.
- EE. For use in J.L. Shepherd & Associates Model Mark IV-F (State of California Sheet No. CA598D105S) calibrator.
- FF. through LL. In storage pending disposal.
- MM. For storage in 7 each 2R containers with each container located in a 6M Type B containers pending disposal.
- NN. For storage only.

Table 1. Inventory Reconciliation based on Radioactive Material License #CS067-25 (amendment 25)

License Line Item	Amendment (Date)	Authorized Use	Isotope	Form / Sealed Source Model	Max Quantity	Disposal or Transfer Information
A	NM-EIC-GL-00 (12/11/87)	R&D, Instrument & Detector Calibration, Demos	Any radioactive material between atomic numbers 1 and 83, inclusive	Any	Not to exceed 20 mCi per radionuclide except H-3, 5 Ci; Co-60, 10 Ci; Kr-85, 5 Ci; Sr-90, 1 Ci; Xe-127, 1 Ci; Xe-133, 1 Ci; Pm-137, 1 Ci	Refer to Attached Table 2
B	NM-EIC-GL-00 (12/11/87)	R&D, Instrument & Detector Calibration, Demos	Any radioactive material between atomic numbers 84 and 95 inclusive	Any	Not to exceed 1 mCi per radionuclide	Refer to Attached Table 3
C	NM-EIC-GL-00 (12/11/87)	R&D, Instrument & Detector Calibration, Demos	Any radioactive material with atomic number greater than 95	Any	1 mCi total	Refer to Attached Table 4
D	NM-EIC-GL-00 (12/11/87)	R&D, Instrument & Detector Calibration, Demos	Co-57	Sealed Source / Isotope Products Encapsulation 193	100 mCi total	4/23/07; RAM Services
E	NM-EIC-GL-00 (12/11/87)	R&D, Instrument & Detector Calibration, Demos	Cs-137	Sealed Source / Atomchem Type 2000	One Source of 1250 Ci; one source of 25 Ci	11/8/07; Southwest Research; Bill of Lading shipper number INIS-42-2007; carrier No. 26887844
F	NM-EIC-GL-00 (12/11/87)	R&D, Instrument & Detector Calibration, Demos	Cs-137	Sealed Source / JL Shepherd Model 6810, ORNL	Not to exceed 600 Ci	11/8/07; Southwest Research; Bill of Lading shipper number INIS-42-2007; carrier No. 26887844
G	NM-EIC-GL-00 (12/11/87)	R&D, Instrument & Detector Calibration, Demos	Cs-137	Sealed Source / JL Shepherd Model 6810, ORNL, US Nuclear	Not to exceed 25 Ci	Breached source in HRW. Recovery during HRW decommissioning (Sep. 2010 – Mar 2011), manifest #E8417, and soil removal (Oct – Dec 2012) manifest # E8727

Table 1. Continued

License Line Item	Amendment (Date)	Authorized Use	Isotope	Form / Sealed Source Model	Max Quantity	Disposal or Transfer Information
H	NM-EIC-GL-00 (12/11/87)	R&D, Instrument & Detector Calibration, Demos	Cs-137	Sealed Source / ICN Model 375	Not to exceed 0.5 Ci	11/8/07; Southwest Research; Bill of Lading shipper number INIS-42-2007; carrier No. 26887844
I	NM-EIC-GL-00 (12/11/87)	R&D, Instrument & Detector Calibration, Demos	Cs-137	Sealed Source / 3M Model 4F6S	Not to exceed 0.5 Ci	11/8/07; Southwest Research; Bill of Lading shipper number INIS-42-2007; carrier No. 26887844
J	NM-EIC-GL-00 (12/11/87)	R&D, Instrument & Detector Calibration, Demos	Cs-137	Sealed Source / 3M Model 4F6D	No single source to exceed 0.1 Ci	4/23/07; RAM Services
K	NM-EIC-GL-00 (12/11/87)	R&D, Instrument & Detector Calibration, Demos	Cs-137	Sealed Source / Isotope Products Model 193	No single source to exceed 0.1 Ci	4/23/07; RAM services
L	NM-EIC-GL-00 (12/11/87)	R&D, Instrument & Detector Calibration, Demos	Cs-137	Sealed Source / New England Nuclear NER-401HO	No single source to exceed 0.1 Ci	4/23/07; RAM Services 11/6/07; RAM Services; Bill of Lading #: 2007-X-0045 Roadway
M	NM-EIC-GL-00 (12/11/87)	R&D, Instrument & Detector Calibration, Demos	Cs-137	Sealed Source / Tracer Lab R59	No single source to exceed 0.1 Ci	4/23/07; RAM Services 11/6/07; RAM Services; Bill of Lading #: 2007-X-0045 Roadway
N	NM-EIC-GL-00 (12/11/87)	R&D, Instrument & Detector Calibration, Demos	Depleted Uranium 99.8% U-238	Metal Sheets	Not to exceed 12 kg	11/6/07; RAM Services; Bill of Lading #: 2007-X-0045 Roadway
O	NM-EIC-GL-00 (12/11/87)	Calibration For Radon Instruments	Ra-226	Salts contained in Pylon Generators Model #1025	2 sources not to exceed 2.5 µCi each	11/6/07; RAM Services; Bill of Lading #: 2007-X-0045 Roadway
P	NM-EIC-GL-00 (12/11/87)	Distribution	Am-241	Reference light sources in scintillation detectors	No single source to exceed 0.5 µCi	All sales and distribution practices came to an end in June 2007. Order 07-15 found all transfer documentation existed as of August 2007. Records are no longer maintained pursuant to the records retention policy.

Table 1. Continued

License Line Item	Amendment (Date)	Authorized Use	Isotope	Form / Sealed Source Model	Max Quantity	Disposal or Transfer Information
Q	NM-EIC-GL-00 (12/11/87)	Distribution	Am-241	TMA / Eberline calibration source DNS-5	Not to exceed 10 Ci total. No single source to exceed 5 μ Ci	All sales and distribution practices came to an end in June 2007. Order 07-15 found all transfer documentation existed as of August 2007. Records are no longer maintained pursuant to the records retention policy.
R	NM-EIC-GL-00 (12/11/87)	Distribution	Ba-133	TMA / Eberline reference sources S-2, S-3, and CNS-18	Not to exceed 20 mCi total. No single source to exceed 0.5 μ Ci	All sales and distribution practices came to an end in June 2007. Order 07-15 found all transfer documentation existed as of August 2007. Records are no longer maintained pursuant to the records retention policy.
S	NM-EIC-GL-00 (12/11/87)	Distribution	C-14	TMA / Eberline reference sources CS-4A	Not to exceed 20 mCi total. No single source to exceed 8 mCi.	4/23/07; RAM Services
T	NM-EIC-GL-00 (12/11/87)	Distribution	Cs-137	TMA / Eberline reference sources CS-7A, CS-7B, CS-21, and CS-23	Not to exceed 20 mCi total. No single source to exceed 8 μ Ci.	4/23/07; RAM Services
U	NM-EIC-GL-00 (12/11/87)	Distribution	Co-60	TMA / Eberline reference sources DNS-6	Not to exceed 10 Ci total. No single source to exceed 0.01 μ Ci	All sales and distribution practices came to an end in June 2007. Order 07-15 found all transfer documentation existed as of August 2007. Records are no longer maintained pursuant to the records retention policy.
V	NM-EIC-GL-00 (12/11/87)	Distribution	Depleted Uranium	TMA / Eberline calibration and reference sources DNS-26	Not to exceed 12 kg. No single source to exceed 279 mR/hr	4/23/07; RAM Services 11/27/07; Rocky Mountain Low-Level Rad Waste Board permit #TFS-07-01; Manifest #7769
W	NM-EIC-GL-00 (12/11/87)	Distribution	H-3	TMA / Eberline calibration and reference sources CS-14	Not to exceed 5 Ci total. No single source to exceed 8 μ Ci	4/23/07; RAM Services

Table 1. Continued

License Line Item	Amendment (Date)	Authorized Use	Isotope	Form / Sealed Source Model	Max Quantity	Disposal or Transfer Information
X	GL-067-15 (3/10/95)	Distribution	Pu-239 / Be	Sealed Source / Eberline #143 AED #M-579	Not to exceed 160 grams (9.8 curies) total. No single source to exceed 5 μ Ci.	10/19/07; LANS / LANL for US DOE; Bill of Lading Shipper No. 2007-032
Y	NM-EIC-GL-00 (12/11/87)	Distribution	Sr-90 / Y-90	TMA / Eberline calibration and reference sources CS-19, CS-20, CS-22, CS-24, DNS-2 and DNS-14	Not to exceed 1 Ci total. No single source to exceed 5 μ Ci	4/23/07 – RAM Services TRANSFER - 7/26/07 - 8/17/07; Shipments to Thermo Fisher facilities in South Carolina & Erlangen Germany
Z	NM-EIC-GL-00 (12/11/87)	Distribution	Tc-99	TMA / Eberline calibration and reference sources CS-13, DNS-3, DNS-12, DNS-13, DNS-18, DNS-19	Not to exceed 20 mCi total. No single source to exceed 1 μ Ci.	4/23/07; RAM Services
AA	NM-EIC-GL-00 (12/11/87)	Distribution	Tc-99	TMA / Eberline calibration and reference sources DNS-8, DNS-9, S-4, S-5, and CS-13	Not to exceed 20 mCi Tc-99, or 30 μ Ci Th-230 total. No single source to exceed 0.01 μ Ci thorium, or 0.01 μ Ci Tc-99	4/23/07; RAM Services
BB	NM-EIC-GL-00 (12/11/87)	Distribution	Th-230	TMA / Eberline calibration and reference sources CS-10, CS-11, CS-12, CS-15, CS-16, DNS-4, DNS-11, S-1	Not to exceed 30 μ Ci total. No single source to exceed 0.2 μ Ci.	4/23/07; RAM Services
CC	NM-EIC-GL-06 (11/1/90)	Use in Eberline Model SPING 3	Am-241	Sealed Source / Amersham Model AMC.65	One source not to exceed 30 mCi	4/23/07; RAM Services

Table 1. Continued

License Line Item	Amendment (Date)	Authorized Use	Isotope	Form / Sealed Source Model	Max Quantity	Disposal or Transfer Information
DD	CS067-7 (12/11/91)	Calibration of Model DD-100 dosimeters, Eberline Model DR-200R	Cs-137	Sealed Source / Isotope Products Lab's Model HEG-137-5, type 225 or equal	No single source to exceed 5 mCi each	4/23/07; RAM Services
EE	CS067-8 (12/16/91)	In J.L. Shepherd Model Mark IV-F	Cs-137	Sealed Source / Amersham Corp. CSC-800	Three sources not to exceed 3.5 Ci	3/28/09; J.L. Shepherd; Pro Bill 25180693
FF	CS067-17 (5/24/00)	In Storage	Pu-239	Sealed Source / Monsanto Model MRC-TD-SS-W-Pu-359	Not to exceed 5 grams	12/13/06; Off-site Source Recovery Project; Bill of Lading #: 859-326336; ATRO # 2007:4
GG	CS067-17 (5/24/00)	In Storage	Pu-238 / Li	Sealed Source / Monsanto Model MRC-Pu8Li-50	Not to exceed 13.43 Ci	12/13/06; Off-site Source Recovery Project; Bill of Lading #: 859-326336; ATRO # 2007:48
HH	CS067-17 (5/24/00)	In Storage	Pu-238 / Li	Sealed Source / Monsanto Model MRC-Pu8Li-51	Not to exceed 13.35 Ci	12/13/06; Off-site Source Recovery Project; Bill of Lading #: 859-326336; ATRO # 2007:48
II	CS067-17 (5/24/00)	In Storage	Pu-238/ Li	Sealed Source / Monsanto Model MRC-N-SS-W-Pu8Li-7	Not to exceed 17.8 Ci	12/13/06; Off-site Source Recovery Project; Bill of Lading #: 859-326336; ATRO # 2007:48
JJ	CS067-17 (5/24/00)	In Storage	Pu-238 / Li	Sealed Source / Monsanto Model Pu8Li-13	Not to exceed 16.8 Ci	12/13/06; Off-site Source Recovery Project; Bill of Lading #: 859-326336; ATRO # 2007:48
KK	CS067-18 (6/29/00)	In Storage	Cf-252	Sealed Source / Amersham CVNQ7664	One source not to exceed 22 micrograms	6/10/16; Consignee: Bionomics Inc., Oak Ridge, TN; Rocky Mountain Low-Level Rad Waste Board permit #TFS-16-2; Uniform LLRW Manifest # 0616TFSA-Cf

Table 1. Continued

License Line Item	Amendment (Date)	Authorized Use	Isotope	Form / Sealed Source Model	Max Quantity	Disposal or Transfer Information
LL	CS067-18 (6/29/00)	In Storage	Cf-252	Sealed Source / Amersham CVN6	One source not to exceed 10 micrograms	6/10/16; Consignee: Bionomics Inc., Oak Ridge, TN; Rocky Mountain Low- Level Rad Waste Board permit #TFS- 16-2; Uniform LLRW Manifest # 0616TFSA-Cf
MM	CS067-20 (11/15/00)	In Storage	Am-241	Sealed Source, Any (nitrate, resin beads, and lab solutions)	Not to exceed 8.616 Ci	2/21/16; Contract NFE-14-0018 A002 between LANS and TFS; Final Transfer Letter 19FEB16 and Settlement agreement and stipulated final compliance order #RCB 16-03 (CO)
NN	CS067-22 (9/25/03)	In Storage	Am-241	Sealed Source / AEA Tech.-QSA Inc. Model # AMC 18	One source not to exceed 500 mCi	4/25/07; QSA Global, Inc in Baton Rouge, LA; Air Waybill No. 836552197628

Table 1 NOTE: The three line items included in the Santa Fe license issued in 1987 were originally identified as Items P, Y, and Z. These items were subsequently removed from the license by the Radiation Control Bureau. Therefore, sources associated with these line items were not in inventory at the start of the decommissioning process in 2007 and records relating to these sources were determined to be satisfactory by Order RCB 07-15.

Line Item on License NM-EIC-GL-00	Amendment that Removed the Line Item	Radioactive Material / Form	Sealed Source Model	Max Quantity
P	CS067-12 (2/15/93)	Cs-137 / Sealed Source	CEA France Models CSP and CSE, also known as Eberline SCS1001-1008 (for use in Eberline Model 1000 gamma calibrators)	Not to exceed 3000 Ci total. No single source to exceed 135 Ci.
Y	CS067-15 (3/10/95)	Pu-239 / Sealed Source	TMA / Eberline calibration and reference sources CS-1, CS-3, DNS-1, DNS-7, DNS-16, DNS-16S, DNS-21S, S-S94-1 and S-94-4	Not to exceed 30 grams (1.8 Ci) total. No single source to exceed 5 μ Ci
Z	CS067-13 (9/23/94)	Pu-239 / Sealed Source	TMA / Eberline calibration and reference sources CS-1, CS-3, DNS-1, DNS-7, DNS-16, DNS-16S, DNS-21S, S-S94-1 and S-94-4	Not to exceed 30 grams (1.8 Ci) total. No single source to exceed 5 μ Ci

Table 2. Lists all items shipped out that correspond to Line Item A of the License.

Line Item	Isotope	Activity (uCi unless otherwise noted)	Disposal Description
A	Ba-133	11.24 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
A	Ba-133	103.7 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
A	Co-57	107.5 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
A	Co-60	6.414013E+01	4/23/07; RAM Services
A	Co-60	7.012933E+03	4/23/07; RAM Services
A	Co-60	3.367823E+00	4/23/07; RAM Services
A	Co-60	3.842137E+01	4/23/07; RAM Services
A	Co-60	3.558822E+01	4/23/07; RAM Services
A	Co-60	1.14 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
A	Co-60	1.22 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
A	Co-60	2.780661E+03	4/23/07; RAM Services
A	Co-60	1.075061E+03	4/23/07; RAM Services
A	Co-60	1.766539E+00	4/23/07; RAM Services
A	Co-60	7.094 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
A	Co-60	102.9 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
A	Cs-137	8.908552E+01	4/23/07; RAM Services
A	Cs-137	5.654074E+01	4/23/07; RAM Services
A	Cs-137	2.827037E+01	4/23/07; RAM Services
A	Cs-137	2.827037E+01	4/23/07; RAM Services
A	Cs-137	2.827037E+01	4/23/07; RAM Services
A	Cs-137	2.827037E+01	4/23/07; RAM Services
A	Cs-137	2.827037E+01	4/23/07; RAM Services
A	Cs-137	2.815096E+01	4/23/07; RAM Services
A	Cs-137	2.815096E+01	4/23/07; RAM Services
A	Cs-137	3.231810E+03	4/23/07; RAM Services
A	Cs-137	2.468924E+01	4/23/07; RAM Services
A	Cs-137	96.79 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
A	Cs-137	16.61 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
A	Cs-137	3.238836E+03	4/23/07; RAM Services
A	Cs-137	4.455338E+01	4/23/07; RAM Services
A	Cs-137	4.438202E+01	4/23/07; RAM Services
A	Cs-137	3.000000E+01	4/23/07; RAM Services
A	Cs-137	2.962709E+01	4/23/07; RAM Services
A	Cs-137	2.400000E+01	4/23/07; RAM Services
A	Cs-137	2.000000E+01	4/23/07; RAM Services
A	Cs-137	1.942996E+01	4/23/07; RAM Services
A	Cs-137	1.600000E+01	4/23/07; RAM Services
A	Eu-152	1.735953E+00	4/23/07; RAM Services
A	Hg-203	16.0 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
A	Hg-203	11.8 uCi	11/6/07; RAM Services - Manifest 2007-X-0045

Table 2. Continued

Line Item	Isotope	Activity (uCi unless otherwise noted)	Disposal Description
A	I-129	9.999987E-01	4/23/07; RAM Services
A	I-129	8.449990E-01	4/23/07; RAM Services
A	I-129	1.025999E-01	4/23/07; RAM Services
A	I-129	0.845 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
A	I-129	1 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
A	I-129	1 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
A	Kr-85	1.065493E+05	4/23/07; RAM Services
A	Kr-85	9.844877E+04	4/23/07; RAM Services
A	Kr-85	9.820000E+03	4/23/07; RAM Services
A	Pb-210/Be	2.850000E+03	4/23/07; RAM Services
A	Si-31	105.9 nCi	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
A	Si-32	1.016459E-01	4/23/07; RAM Services
A	Sr-90	5.000000E+03	4/23/07; RAM Services
A	Sr-90	1.907261E+00	4/23/07; RAM Services
A	Sr-90	2.143105E-01	4/23/07; RAM Services
A	Sr-90	1.403226E+00	4/23/07; RAM Services
A	Sr-90	6.000000E-01	4/23/07; RAM Services
A	Sr-90	8.607020E-01	4/23/07; RAM Services
A	Sr-90	4.386712E-01	4/23/07; RAM Services
A	Sr-90	4.303510E-01	4/23/07; RAM Services
A	Sr-90	4.282250E-01	4/23/07; RAM Services
A	Sr-90	4.282250E-01	4/23/07; RAM Services
A	Sr-90	4.282250E-01	4/23/07; RAM Services
A	Sr-90	4.282250E-01	4/23/07; RAM Services
A	Sr-90	3.904683E-01	4/23/07; RAM Services
A	Sr-90	2.619848E-01	4/23/07; RAM Services
A	Sr-90	2.619848E-01	4/23/07; RAM Services
A	Sr-90	2.619848E-01	4/23/07; RAM Services
A	Sr-90	2.619848E-01	4/23/07; RAM Services
A	Sr-90	2.143105E-01	4/23/07; RAM Services
A	Sr-90	4.284000E+01	4/23/07; RAM Services
A	Sr-90	4.326511E+00	4/23/07; RAM Services
A	Sr-90	4.265759E+00	4/23/07; RAM Services
A	Sr-90	1.207013E+00	4/23/07; RAM Services
A	Sr-90	1.050000E+00	4/23/07; RAM Services
A	Sr-90	4.935055E-01	4/23/07; RAM Services
A	Sr-90	4.935055E-01	4/23/07; RAM Services
A	Sr-90	2.000000E-01	4/23/07; RAM Services
A	Sr-90	1.750431E-01	4/23/07; RAM Services
A	Sr-90	1.460724E-01	4/23/07; RAM Services
A	Sr-90	1.460724E-01	4/23/07; RAM Services
A	Sr-90	1.081081E-01	4/23/07; RAM Services

Table 2. Continued

Line Item	Isotope	Activity (uCi unless otherwise noted)	Disposal Description
A	Sr-90/Y-90	0.653 uCi	7/26/07 – 8/17/07; Erlangen, Germany or Columbia, South Carolina
A	Sr-90/Y-90	0.6 uCi	7/26/07 – 8/17/07; Erlangen, Germany or Columbia, South Carolina
A	Sr-90/Y-90	0.6 uCi	7/26/07 – 8/17/07; Erlangen, Germany or Columbia, South Carolina
A	Sr-90/Y-90	0.6 uCi	7/26/07 – 8/17/07; Erlangen, Germany or Columbia, South Carolina
A	Sr-90/Y-90	0.6 uCi	7/26/07 – 8/17/07; Erlangen, Germany or Columbia, South Carolina
A	Sr-90/Y-90	0.6 uCi	7/26/07 – 8/17/07; Erlangen, Germany or Columbia, South Carolina
A	Sr-90/Y-90	0.6 uCi	7/26/07 – 8/17/07; Erlangen, Germany or Columbia, South Carolina
A	Sr-90/Y-90	0.5 uCi	7/26/07 – 8/17/07; Erlangen, Germany or Columbia, South Carolina
A	Sr-90/Y-90	0.5 uCi	7/26/07 – 8/17/07; Erlangen, Germany or Columbia, South Carolina
A	Sr-90/Y-90	0.5 uCi	7/26/07 – 8/17/07; Erlangen, Germany or Columbia, South Carolina
A	Sr-90/Y-90	0.5 uCi	7/26/07 – 8/17/07; Erlangen, Germany or Columbia, South Carolina
A	Sr-90/Y-90	0.5 uCi	7/26/07 – 8/17/07; Erlangen, Germany or Columbia, South Carolina
A	Sr-90/Y-90	0.5 uCi	7/26/07 – 8/17/07; Erlangen, Germany or Columbia, South Carolina
A	Sr-90/Y-90	0.5 uCi	7/26/07 – 8/17/07; Erlangen, Germany or Columbia, South Carolina
A	Sr-90/Y-90	0.5 uCi	7/26/07 – 8/17/07; Erlangen, Germany or Columbia, South Carolina
A	Sr-90/Y-90	0.5 uCi	7/26/07 – 8/17/07; Erlangen, Germany or Columbia, South Carolina
A	Sr-90/Y-90	0.5 uCi	7/26/07 – 8/17/07; Erlangen, Germany or Columbia, South Carolina
A	Sr-90/Y-90	2.93 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
A	Sr-90/Y-90	17,700,000 dpm	11/6/07; RAM Services - Manifest 2007-X-0045
A	Sr-90/Y-90	7,150 cpm	11/6/07; RAM Services - Manifest 2007-X-0045
A	Sr-90/Y-90	6,790 dpm	11/6/07; RAM Services - Manifest 2007-X-0045
A	Sr-90/Y-90	tbd	11/6/07; RAM Services - Manifest 2007-X-0045
A	Sr-90/Y-90	450,000 dpm	11/6/07; RAM Services - Manifest 2007-X-0045
A	Sr-90/Y-90	188,000 cpm	11/6/07; RAM Services - Manifest 2007-X-0045
A	Sr-90/Y-90	181,000 cpm	11/6/07; RAM Services - Manifest 2007-X-0045
A	Sr-90/Y-90	0.8 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
A	Y-88	99.49 uCi	11/6/07; RAM Services - Manifest 2007-X-0045

Table 3. Lists all items shipped out that correspond to Line Item B of the License.

Line Item	Isotope	Activity (uCi unless otherwise noted)	Disposal Description
B	Am-241	4.977722E+01	4/23/07; RAM Services
B	Am-241	4.977722E+01	4/23/07; RAM Services
B	Am-241	4.977722E+01	4/23/07; RAM Services
B	Am-241	4.977941E-02	4/23/07; RAM Services
B	Am-241	1.400000E+01	4/23/07; RAM Services
B	Am-241	1.145770E+01	4/23/07; RAM Services
B	Am-241	6.969117E+00	4/23/07; RAM Services
B	Am-241	2.346927E-02	4/23/07; RAM Services
B	Am-241	3.055551E+00	4/23/07; RAM Services
B	Am-241	3.055551E+00	4/23/07; RAM Services
B	Am-241	2.330914E-02	4/23/07; RAM Services
B	Am-241	5.307229E-03	4/23/07; RAM Services
B	Am-241	3.684744E-03	4/23/07; RAM Services
B	Am-241	6.702456E-04	4/23/07; RAM Services
B	Am-241	1.095043E-01	4/23/07; RAM Services
B	Am-241	1.050031E-03	4/23/07; RAM Services
B	Am-241	4.977788E-02	4/23/07; RAM Services
B	Am-241	2.997393E-02	4/23/07; RAM Services
B	Am-241	2.880886E-02	4/23/07; RAM Services
B	Am-241	5.708528E-04	4/23/07; RAM Services
B	Am-241	2.904077E+02	4/23/07; RAM Services
B	Am-241	2.518569E+01	4/23/07; RAM Services
B	Am-241	2.421701E+01	4/23/07; RAM Services
B	Am-241	2.986764E-01	4/23/07; RAM Services
B	Am-241	2.572589E-02	4/23/07; RAM Services
B	Am-241	1.08 nCi	11/6/07; RAM Services - Manifest 2007-X-0045
B	Am-241	171 nCi	11/6/07; RAM Services - Manifest 2007-X-0045
B	Am-241	194.5 nCi	11/6/07; RAM Services - Manifest 2007-X-0045
B	Am-241	4.766648E+01	4/23/07; RAM Services
B	Am-241	2.300000E+00	4/23/07; RAM Services
B	Am-241	1.702456E+00	4/23/07; RAM Services
B	Am-241	1.152891E+00	4/23/07; RAM Services
B	Am-241	7.125649E-01	4/23/07; RAM Services
B	Am-241	4.977875E-01	4/23/07; RAM Services
B	Am-241	2.425968E-01	4/23/07; RAM Services
B	Am-241	1.890257E-01	4/23/07; RAM Services
B	Am-241	1.662214E-01	4/23/07; RAM Services
B	Am-241	9.695229E-02	4/23/07; RAM Services
B	Am-241	9.214066E-02	4/23/07; RAM Services
B	Am-241	5.492856E-02	4/23/07; RAM Services
B	Am-241	5.492856E-02	4/23/07; RAM Services
B	Am-241	4.000000E-02	4/23/07; RAM Services

Table 3. Continued

Line Item	Isotope	Activity (uCi unless otherwise noted)	Disposal Description
B	Am-241	3.000000E-02	4/23/07; RAM Services
B	Am-241	2.986764E-02	4/23/07; RAM Services
B	Am-241	2.585612E-02	4/23/07; RAM Services
B	Am-241	2.491981E-02	4/23/07; RAM Services
B	Am-241	2.000000E-02	4/23/07; RAM Services
B	Am-241	4.101739E-03	4/23/07; RAM Services
B	Am-241	3.167230E-03	4/23/07; RAM Services
B	Am-241	6.481894E-04	4/23/07; RAM Services
B	Am-241	9.421108E-06	4/23/07; RAM Services
B	Am-241	232,000 dpm	11/6/07; RAM Services - Manifest 2007-X-0045
B	Am-241	23.55 nCi	11/6/07; RAM Services - Manifest 2007-X-0045
B	Am-241	~ 1 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
B	Np-237	5.000000E-01	4/23/07; RAM Services
B	Np-237	5.999979E+00	4/23/07; RAM Services
B	Np-237	3.999954E-02	4/23/07; RAM Services
B	Po-210	0.115 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
B	Pu-238	3.06E-05	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	7.49E-04	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1.88E-07	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1.87E-04	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	97,500 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	9640 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	9,490 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	88,800 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	8,080,000 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	789,000 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	75,000 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	709 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	7,280 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	69,900 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	4,090,000 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	34,200 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769

Table 3. Continued

Line Item	Isotope	Activity (uCi unless otherwise noted)	Disposal Description
B	Pu-239	32,400 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	23,500 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	214,000 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	2,610 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	2,470,000 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	2,290,000 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	2,090 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	183,000 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	173,000 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	16,500 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	16,200 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	13,700 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	12,840 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	11,100 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	10,500 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	10,200 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1.5 uCi	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1,892,000 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1,890,000 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1,610 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1,430 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1,400 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1,370 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1,220 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1,000 dpm	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	8.87E-01	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769

Table 3. Continued

Line Item	Isotope	Activity (uCi unless otherwise noted)	Disposal Description
B	Pu-239	3.61E-01	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	3.08E-01	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1.27E-01	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1.24E-01	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1.23E-01	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1.22E-01	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1.19E-01	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	9.E-02	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	8.17E-02	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	8.06E-02	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	4.59E-02	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	4.41E-02	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	4.26E-02	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	2.71E-02	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1.43E-02	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1.35E-02	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1.34E-02	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1.00E-02	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1.00E-02	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1.00E-02	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1.00E-02	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1.00E-02	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1.00E-02	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	9.99E-03	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	9.56E-03	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	8.42E-03	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769

Table 3. Continued

Line Item	Isotope	Activity (uCi unless otherwise noted)	Disposal Description
B	Pu-239	7.28E-03	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	6.88E-03	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	6.73E-03	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	6.10E-03	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	6.08E-03	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	5.49E-03	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	5.06E-03	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	4.55E-03	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	3.59E-03	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	3.35E-03	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	3.23E-03	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1.49E-03	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1.15E-03	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1.13E-03	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1.12E-03	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1.08E-03	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	7.21E-04	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	5.69E-04	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	5.50E-04	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	5.50E-04	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	4.58E-04	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	3.10E-04	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	3.02E-04	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	2.99E-04	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1.87E-04	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	Pu-239	1.87E-04	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769

Table 3. Continued

[illegible]

Table 3. Continued

Line Item	Isotope	Activity (uCi unless otherwise noted)	Disposal Description
B	Th-230	9.999746E-02	4/23/07; RAM Services
B	Th-230	9.999746E-02	4/23/07; RAM Services
B	Th-230	9.999746E-02	4/23/07; RAM Services
B	Th-230	9.999746E-02	4/23/07; RAM Services
B	Th-230	9.999746E-02	4/23/07; RAM Services
B	Th-230	9.999746E-02	4/23/07; RAM Services
B	Th-230	9.999746E-02	4/23/07; RAM Services
B	Th-230	9.999746E-02	4/23/07; RAM Services
B	Th-230	9.999746E-02	4/23/07; RAM Services
B	Th-230	9.999746E-02	4/23/07; RAM Services
B	Th-230	9.999746E-02	4/23/07; RAM Services
B	Th-230	9.999746E-02	4/23/07; RAM Services
B	Th-230	9.999746E-02	4/23/07; RAM Services
B	Th-230	2.399705E-02	4/23/07; RAM Services
B	Th-230	1.899766E-02	4/23/07; RAM Services
B	Th-230	1.899766E-02	4/23/07; RAM Services
B	Th-230	1.899766E-02	4/23/07; RAM Services
B	Th-230	1.499844E-02	4/23/07; RAM Services
B	Th-230	1.499844E-02	4/23/07; RAM Services
B	Th-230	1.499815E-02	4/23/07; RAM Services
B	Th-230	1.499740E-02	4/23/07; RAM Services
B	Th-230	6.669308E-03	4/23/07; RAM Services
B	Th-230	5.859392E-03	4/23/07; RAM Services
B	Th-230	5.409863E-03	4/23/07; RAM Services
B	Th-230	5.409438E-03	4/23/07; RAM Services
B	Th-230	4.499533E-03	4/23/07; RAM Services
B	Th-230	1.459971E-02	4/23/07; RAM Services
B	Th-230	32500 dpm	11/6/07; RAM Services - Manifest 2007-X-0045
B	Th-230	209,000 dpm	11/6/07; RAM Services - Manifest 2007-X-0045
B	Th-230	1.026828E-01	4/23/07; RAM Services
B	Th-230	1.000000E-01	4/23/07; RAM Services
B	Th-230	1.000000E-01	4/23/07; RAM Services
B	Th-230	1.000000E-01	4/23/07; RAM Services
B	Th-230	1.000000E-01	4/23/07; RAM Services
B	Th-230	1.000000E-01	4/23/07; RAM Services
B	Th-230	1.000000E-01	4/23/07; RAM Services
B	Th-230	1.000000E-01	4/23/07; RAM Services
B	Th-230	1.000000E-01	4/23/07; RAM Services
B	Th-230	8.869395E-02	4/23/07; RAM Services
B	Th-230	6.719947E-02	4/23/07; RAM Services
B	Th-230	4.919953E-02	4/23/07; RAM Services
B	Th-230	7.699927E-03	4/23/07; RAM Services
B	Th-230	6.819935E-03	4/23/07; RAM Services
B	Th-230	6.819935E-03	4/23/07; RAM Services
B	Th-230	6.309840E-03	4/23/07; RAM Services

Table 3. Continued

Line Item	Isotope	Activity (uCi unless otherwise noted)	Disposal Description
B	Th-230	6.309840E-03	4/23/07; RAM Services
B	Th-230	5.859851E-03	4/23/07; RAM Services
B	Th-230	4.999873E-03	4/23/07; RAM Services
B	Th-230	4.999873E-03	4/23/07; RAM Services
B	Th-230	4.999098E-03	4/23/07; RAM Services
B	Th-230	4.549494E-03	4/23/07; RAM Services
B	Th-230	4.549494E-03	4/23/07; RAM Services
B	Th-230	4.499886E-03	4/23/07; RAM Services
B	Th-230	4.499500E-03	4/23/07; RAM Services
B	Th-230	3.909382E-03	4/23/07; RAM Services
B	Th-230	9.999763E-04	4/23/07; RAM Services
B	Th-230	8.399903E-04	4/23/07; RAM Services
B	Th-230	6.289928E-04	4/23/07; RAM Services
B	Th-230	9.996581E-06	4/23/07; RAM Services
B	Th-232	1.000000E+00	4/23/07; RAM Services
B	U 235	8.15E-05	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	U-235	8.15E-05	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	U-235	5 grams	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	U-235	3 grams	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	U-235	0.169 uCi	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	U-235	0.0083 uCi	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	U-235	2.89E+01	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	U-235	1.73E+01	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	U-235	1.00E-01	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	U-235	1.00E-01	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	U-235	0.00045	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	U-235	4.86E-08	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	U-238	1.130000E-03	4/23/07; RAM Services
B	U-238	2.000000E-04	4/23/07; RAM Services
B	U-238	2.240000E-04	4/23/07; RAM Services
B	U-238	2.24E-04	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	U-238	7.16E-04	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	U-238	0.001 uci	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	U-238	0.001 uci	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769

Table 3. Continued

Line Item	Isotope	Activity (uCi unless otherwise noted)	Disposal Description
B	U-238	0.001 uci	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	U-238	0.001 uci	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	U-238	0.001 uci	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	U-238	0.001 uci	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	U-238	0.001 uci	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	U-238	0.001 uci	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	U-238	0.001 uci	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	U-238	1.12E-03	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
B	U-238	2.240000E-04	4/23/07; RAM Services
B	U-238	2.240000E-04	4/23/07; RAM Services
B	U-238	2.240000E-04	4/23/07; RAM Services
B	U-238	0.000000E+00	4/23/07; RAM Services
B	U-238	0.000000E+00	4/23/07; RAM Services
B	U3 O8		11/6/07; RAM Services - Manifest 2007-X-0045

Table 4. Lists all items shipped out that correspond to Line Item C of the License.

Line Item	Isotope	Activity (uCi unless otherwise noted)	Disposal Description
C	Cf-252	4.6 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
C	Cf-252	10 uCi	11/6/07; RAM Services - Manifest 2007-X-0045

Table 5. Lists all items shipped out that correspond to Line Item D through CC of the License.

[illegible]

Table 5. Continued

[illegible]

Table 5. Continued

[illegible]

Table 5. Continued

[illegible]

Table 5. Continued

Line Item	Isotope	Activity (uCi unless otherwise noted)	Disposal Description
Y	Sr-90/Y-90	0.34 uCi	7/26/07 - 8/17/07; Erlangen, Germany or Columbia, South Carolina
Y	Sr-90/Y-90	0.32 uCi	7/26/07 - 8/17/07; Erlangen, Germany or Columbia, South Carolina
Y	Sr-90/Y-90	0.29 uCi	7/26/07 - 8/17/07; Erlangen, Germany or Columbia, South Carolina
Y	Sr-90	4.282250E-01	4/23/07; RAM Services
Y	Sr-90	4.282250E-01	4/23/07; RAM Services
Y	Sr-90	4.282250E-01	4/23/07; RAM Services
Y	Sr-90	4.282250E-01	4/23/07; RAM Services
Y	Sr-90	4.282250E-01	4/23/07; RAM Services
Y	Sr-90	4.282250E-01	4/23/07; RAM Services
Y	Sr-90	2.820198E-01	4/23/07; RAM Services
Y	Sr-90	2.820198E-01	4/23/07; RAM Services
Y	Sr-90	2.820198E-01	4/23/07; RAM Services
Y	Sr-90	2.807008E-01	4/23/07; RAM Services
Y	Sr-90	1.114155E-01	4/23/07; RAM Services
Y	Sr-90	4.935055E+00	4/23/07; RAM Services
Y	Sr-90	8.883098E+00	4/23/07; RAM Services
Y	Sr-90	7.012316E-01	4/23/07; RAM Services
Y	Sr-90	6.877497E-01	4/23/07; RAM Services
Z / AA	Tc-99	6.999941E-03	4/23/07; RAM Services
Z / AA	Tc-99	4.999958E-03	4/23/07; RAM Services
Z / AA	Tc-99	4.999958E-03	4/23/07; RAM Services
Z / AA	Tc-99	4.999958E-03	4/23/07; RAM Services
Z / AA	Tc-99	4.999958E-03	4/23/07; RAM Services
Z / AA	Tc-99	4.999958E-03	4/23/07; RAM Services
Z / AA	Tc-99	4.999958E-03	4/23/07; RAM Services
Z	Tc-99	7.389839E-05	4/23/07; RAM Services
Z	Tc-99	6.669855E-05	4/23/07; RAM Services
Z	Tc-99	6.619856E-05	4/23/07; RAM Services
Z	Tc-99	9.999909E-03	4/23/07; RAM Services
Z	Tc-99	1.549944E-02	4/23/07; RAM Services
BB	Th-230	9.999764E-03	4/23/07; RAM Services
BB	Th-230	4.999882E-03	4/23/07; RAM Services
BB	Th-230	1.579963E-03	4/23/07; RAM Services
BB	Th-230	1.439966E-03	4/23/07; RAM Services
BB	Th-230	9.999764E-03	4/23/07; RAM Services
BB	Th-230	1.249971E-02	4/23/07; RAM Services
BB	Th-230	9.999764E-03	4/23/07; RAM Services
BB	Th-230	9.999764E-03	4/23/07; RAM Services
BB	Th-230	9.999764E-03	4/23/07; RAM Services
BB	Th-230	9.999764E-03	4/23/07; RAM Services
BB	Th-230	9.999764E-03	4/23/07; RAM Services
BB	Th-230	9.009770E-03	4/23/07; RAM Services
BB	Th-230	8.199807E-03	4/23/07; RAM Services
BB	Th-230	6.309851E-03	4/23/07; RAM Services
BB	Th-230	5.189878E-03	4/23/07; RAM Services

Table 5. Continued

Line Item	Isotope	Activity (uCi unless otherwise noted)	Disposal Description
BB	Th-230	4.999269E-03	4/23/07; RAM Services
BB	Th-230	5.729804E-03	4/23/07; RAM Services
CC	Am-241	30.0 mCi	4/23/07; RAM Services
EE	Cs-137	3 Ci	3/28/09; JL Shepherd; Pro Bill 25180693
EE	Cs-137	150 mCi	3/28/09; JL Shepherd; Pro Bill 25180693
EE	Cs-137	3 mCi	3/28/09; JL Shepherd; Pro Bill 25180693
FF	Pu-239		12/13/06; Off-site Source Recovery Project; Bill of Lading #859-326336; ATRC#: 2007:4
GG HH II JJ	Pu-238 / Li		12/13/06; Off-site Source Recovery Project; Bill of Lading #859-326336; ATRO#: 2007:48
KK LL	Cf-252	2.412 mCi	6/10/16; Consignee: Bionomics Inc., Oak Ridge, TN; Rocky Mountain Low-Level Rad Waste Board permit #TFS-16-2; Uniform LLRW Manifest #0616TFSA-Cf
MM	Am-241		2/21/16; Contract NFE-14-0018 A002 between LANS and TFS; Final Transfer Letter 19FEB16 and Settlement agreement and stipulated final compliance order #RCB 16-03 (CO)
NN	Am-241	30 mCi (1.11 GBq)	4/25/07; QSA Global, Inc. in Baton Rouge, LA; Air Waybill No. 836552197628

Table 6. Lists of all Exempt Items shipped out in 2007 at the start of the decommissioning process for the Santa Fe facility.

Isotope	Activity (uCi unless otherwise noted)	Disposal Description
Ba-133	1.000000E-01	4/23/07; RAM Services
Ba-133	1.000000E-01	4/23/07; RAM Services
Ba-133	1.000000E-01	4/23/07; RAM Services
Ba-133	1.000000E-03	4/23/07; RAM Services
Ba-133	8.338884E-01	4/23/07; RAM Services
Ba-133	7.328480E-04	4/23/07; RAM Services
Ba-133	1.000000E+00	4/23/07; RAM Services
Ba-133	4.164180E-01	4/23/07; RAM Services
Ba-133	4.169442E-01	4/23/07; RAM Services
Ba-133	4.169442E-01	4/23/07; RAM Services
Ba-133	7.855543E-02	4/23/07; RAM Services
Ba-133	8.326859E-01	4/23/07; RAM Services
Ba-133	8.001423E-01	4/23/07; RAM Services
Ba-133	7.287612E-01	4/23/07; RAM Services
Ba-133	3.19 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
Ba-133	0.78 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
Ba-133	2.300318E-01	4/23/07; RAM Services
Ba-133	2.665108E-01	4/23/07; RAM Services
Ba-133	2.178572E-02	4/23/07; RAM Services
Ba-133	2.696212E-03	4/23/07; RAM Services
Ba-133	2.416964E-02	4/23/07; RAM Services
Ba-133	4.353216E-02	4/23/07; RAM Services
Ba-133	2.176608E-02	4/23/07; RAM Services
Ba-133	9.649126E-06	4/23/07; RAM Services
Ba-133	1.000000E+00	4/23/07; RAM Services
Ba-133	5.757245E-01	4/23/07; RAM Services
Ba-133	5.757245E-01	4/23/07; RAM Services
C-14	1.185714E-01	4/23/07; RAM Services
C-14	5.000000E-01	4/23/07; RAM Services
C-14	9.958433E-02	4/23/07; RAM Services
C-14	1.432926E-02	4/23/07; RAM Services
C-14	4.975232E+01	4/23/07; RAM Services
C-14	0.0998 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
C-14	4.998328E-01	4/23/07; RAM Services
C-14	4.998328E-01	4/23/07; RAM Services
C-14	1.227746E-02	4/23/07; RAM Services
C-14	1.147815E-02	4/23/07; RAM Services
C-14	tbd	11/6/07; RAM Services - Manifest 2007-X-0045
Cd-109	7.578904E-06	4/23/07; RAM Services
Cd-109	2.339111E-04	4/23/07; RAM Services
Cd-109	2.202955E-01	4/23/07; RAM Services
Cd-109	2.153869E-01	4/23/07; RAM Services
Cd-109	1.000000E+00	4/23/07; RAM Services
Cd-109	1.134 uCi	11/6/07; RAM Services - Manifest 2007-X-0045

Table 6. Continued

Isotope	Activity (uCi unless otherwise noted)	Disposal Description
Cd-109	1 uCi	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
Ce-144	2.017567E-10	4/23/07; RAM Services
Ce-144	9.886263E-11	4/23/07; RAM Services
Cl-36	8.619645E-02	4/23/07; RAM Services
Cl-36	1.494941E+00	4/23/07; RAM Services
Cl-36	2.999878E-01	4/23/07; RAM Services
Cl-36	1.002959E-02	4/23/07; RAM Services
Cl-36	1.495 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
Cl-36	0.0862 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
Cl-36	0.01003 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
Cl-36	0.300 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
Cl-36	2.831946E-01	4/23/07; RAM Services
Cl-36	8.819667E-02	4/23/07; RAM Services
Cl-36	7.769678E-02	4/23/07; RAM Services
Cl-36	5.079897E-02	4/23/07; RAM Services
Cl-36	4.649905E-02	4/23/07; RAM Services
Co-57	1.368727E+01	4/23/07; RAM Services
Co-57	2.704556E+00	4/23/07; RAM Services
Co-57	7.609015E-01	4/23/07; RAM Services
Co-57	3.999645E-02	4/23/07; RAM Services
Co-57	1.333698E-03	4/23/07; RAM Services
Co-57	6.224811E-06	4/23/07; RAM Services
Co-57	1.796000E+00	4/23/07; RAM Services
Co-57	7.509246E-02	4/23/07; RAM Services
Co-57	4.273419E-02	4/23/07; RAM Services
Co-57	7.983315E-02	4/23/07; RAM Services
Co-57	3.377125E-09	4/23/07; RAM Services
Co-57	93.02 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
Co-57	16.38 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
Co-57	2.995 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
Co-57	90.22 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
Co-60	6.287321E-03	4/23/07; RAM Services
Co-60	4.390457E-02	4/23/07; RAM Services
Co-60	2.860140E-03	4/23/07; RAM Services
Co-60	1.017109E-03	4/23/07; RAM Services
Co-60	2.867788E-02	4/23/07; RAM Services
Co-60	1.913833E-02	4/23/07; RAM Services
Co-60	1.906147E-02	4/23/07; RAM Services
Co-60	1.965146E-03	4/23/07; RAM Services
Co-60	1.936891E-03	4/23/07; RAM Services
Co-60	1.929205E-03	4/23/07; RAM Services
Co-60	9.817475E-04	4/23/07; RAM Services
Co-60	3.938550E-04	4/23/07; RAM Services
Co-60	1.898460E-04	4/23/07; RAM Services
Co-60	3.492676E-03	4/23/07; RAM Services
Co-60	6.939151E-01	4/23/07; RAM Services

Table 6. Continued

Isotope	Activity (uCi unless otherwise noted)	Disposal Description
Co-60	6.408455E-01	4/23/07; RAM Services
Co-60	6.999366E-01	4/23/07; RAM Services
Co-60	1.233987E-02	4/23/07; RAM Services
Co-60	1.454223E-02	4/23/07; RAM Services
Co-60	1.442589E-04	4/23/07; RAM Services
Co-60	1.337885E-04	4/23/07; RAM Services
Co-60	14.2 nCi	11/6/07; RAM Services - Manifest 2007-X-0045
Co-60	14.2 nCi	11/6/07; RAM Services - Manifest 2007-X-0045
Co-60	4.672147E-01	4/23/07; RAM Services
Co-60	1.788505E-01	4/23/07; RAM Services
Co-60	1.732832E-01	4/23/07; RAM Services
Co-60	1.145912E-01	4/23/07; RAM Services
Co-60	1.086760E-01	4/23/07; RAM Services
Co-60	1.075453E-01	4/23/07; RAM Services
Co-60	1.844343E-02	4/23/07; RAM Services
Co-60	1.795464E-02	4/23/07; RAM Services
Co-60	1.781546E-02	4/23/07; RAM Services
Co-60	1.774587E-02	4/23/07; RAM Services
Co-60	1.732832E-02	4/23/07; RAM Services
Co-60	1.503985E-02	4/23/07; RAM Services
Co-60	1.100217E-02	4/23/07; RAM Services
Co-60	1.027702E-02	4/23/07; RAM Services
Co-60	8.784460E-03	4/23/07; RAM Services
Co-60	6.237343E-03	4/23/07; RAM Services
Co-60	4.490212E-03	4/23/07; RAM Services
Co-60	2.810603E-03	4/23/07; RAM Services
Co-60	2.245106E-03	4/23/07; RAM Services
Co-60	2.196340E-03	4/23/07; RAM Services
Co-60	1.800430E-03	4/23/07; RAM Services
Co-60	1.656281E-03	4/23/07; RAM Services
Co-60	1.621485E-03	4/23/07; RAM Services
Co-60	1.600608E-03	4/23/07; RAM Services
Co-60	1.561446E-03	4/23/07; RAM Services
Co-60	1.443282E-03	4/23/07; RAM Services
Co-60	1.271565E-03	4/23/07; RAM Services
Co-60	1.032188E-03	4/23/07; RAM Services
Co-60	1.032188E-03	4/23/07; RAM Services
Co-60	1.007668E-03	4/23/07; RAM Services
Co-60	9.990870E-04	4/23/07; RAM Services
Co-60	6.845041E-04	4/23/07; RAM Services
Co-60	4.945985E-04	4/23/07; RAM Services
Co-60	4.945985E-04	4/23/07; RAM Services
Co-60	4.533412E-04	4/23/07; RAM Services
Co-60	3.624486E-04	4/23/07; RAM Services
Co-60	1.991596E-04	4/23/07; RAM Services
Co-60	1.654054E-04	4/23/07; RAM Services
Co-60	8.784460E-05	4/23/07; RAM Services

Table 6. Continued

Isotope	Activity (uCi unless otherwise noted)	Disposal Description
Co-60	7.604663E-05	4/23/07; RAM Services
Co-60	2.55 nCi	11/6/07; RAM Services - Manifest 2007-X-0045
Co-60	72 nCi	11/6/07; RAM Services - Manifest 2007-X-0045
Cs-137	7.538289E+00	4/23/07; RAM Services
Cs-137	7.000000E+00	4/23/07; RAM Services
Cs-137	6.994761E-02	4/23/07; RAM Services
Cs-137	7.596284E+00	4/23/07; RAM Services
Cs-137	7.538765E+00	4/23/07; RAM Services
Cs-137	7.538765E+00	4/23/07; RAM Services
Cs-137	7.538289E+00	4/23/07; RAM Services
Cs-137	7.505501E+00	4/23/07; RAM Services
Cs-137	7.271672E+00	4/23/07; RAM Services
Cs-137	5.925417E+00	4/23/07; RAM Services
Cs-137	5.629126E+00	4/23/07; RAM Services
Cs-137	4.484334E+00	4/23/07; RAM Services
Cs-137	4.484334E+00	4/23/07; RAM Services
Cs-137	4.318781E+00	4/23/07; RAM Services
Cs-137	9.381877E-01	4/23/07; RAM Services
Cs-137	9.381877E-01	4/23/07; RAM Services
Cs-137	9.381877E-01	4/23/07; RAM Services
Cs-137	8.968667E-01	4/23/07; RAM Services
Cs-137	5.132641E-01	4/23/07; RAM Services
Cs-137	3.818598E-01	4/23/07; RAM Services
Cs-137	5.629126E-02	4/23/07; RAM Services
Cs-137	5.629126E-02	4/23/07; RAM Services
Cs-137	3.871637E-02	4/23/07; RAM Services
Cs-137	1.319284E-02	4/23/07; RAM Services
Cs-137	1.319284E-02	4/23/07; RAM Services
Cs-137	1.319284E-02	4/23/07; RAM Services
Cs-137	1.319284E-02	4/23/07; RAM Services
Cs-137	0.000000E+00	4/23/07; RAM Services
Cs-137	1.312063E-03	4/23/07; RAM Services
Cs-137	7.538289E+00	4/23/07; RAM Services
Cs-137	7.502183E+00	4/23/07; RAM Services
Cs-137	5.608548E+00	4/23/07; RAM Services
Cs-137	1.000000E+00	4/23/07; RAM Services
Cs-137	1.000000E+00	4/23/07; RAM Services
Cs-137	2.648000E-02	4/23/07; RAM Services
Cs-137	4.688864E-01	4/23/07; RAM Services
Cs-137	1.633473E+00	4/23/07; RAM Services
Cs-137	2.721260E-02	4/23/07; RAM Services
Cs-137	2.120657E-02	4/23/07; RAM Services
Cs-137	4.479960E-02	4/23/07; RAM Services
Cs-137	2.141025E-02	4/23/07; RAM Services
Cs-137	1.259427E-02	4/23/07; RAM Services
Cs-137	4.129120E-03	4/23/07; RAM Services
Cs-137	8.108000E-02	4/23/07; RAM Services

Table 6. Continued

Isotope	Activity (uCi unless otherwise noted)	Disposal Description
Cs-137	7.297000E-02	4/23/07; RAM Services
Cs-137	1.430341E-02	4/23/07; RAM Services
Cs-137	1.400000E-02	4/23/07; RAM Services
Cs-137	7.503605E+00	4/23/07; RAM Services
Cs-137	7.503605E+00	4/23/07; RAM Services
Cs-137	9.378914E-01	4/23/07; RAM Services
Cs-137	9.248881E-01	4/23/07; RAM Services
Cs-137	9.374767E-01	4/23/07; RAM Services
Cs-137	6.792314E-01	4/23/07; RAM Services
Cs-137	2.337730E-02	4/23/07; RAM Services
Cs-137	6.058419E-02	4/23/07; RAM Services
Cs-137	5.311740E-03	4/23/07; RAM Services
Cs-137	1.176475E-03	4/23/07; RAM Services
Cs-137	4.907062E+00	4/23/07; RAM Services
Cs-137	12.8 nCi	11/6/07; RAM Services - Manifest 2007-X-0045
Cs-137	5 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
Cs-137	2.206 nCi	11/6/07; RAM Services - Manifest 2007-X-0045
Cs-137	8 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
Cs-137	~ 0.06 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
Cs-137	~ 0.06 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
Cs-137	~ 0.25 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
Cs-137	8 uCi	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
Cs-137	9 uCi	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
Cs-137	1.000000E+01	4/23/07; RAM Services
Cs-137	1.000000E+01	4/23/07; RAM Services
Cs-137	1.000000E+01	4/23/07; RAM Services
Cs-137	8.000000E+00	4/23/07; RAM Services
Cs-137	8.000000E+00	4/23/07; RAM Services
Cs-137	7.538765E+00	4/23/07; RAM Services
Cs-137	7.502183E+00	4/23/07; RAM Services
Cs-137	6.254528E+00	4/23/07; RAM Services
Cs-137	6.111749E+00	4/23/07; RAM Services
Cs-137	3.293269E+00	4/23/07; RAM Services
Cs-137	2.000000E+00	4/23/07; RAM Services
Cs-137	1.355902E+00	4/23/07; RAM Services
Cs-137	1.000000E+00	4/23/07; RAM Services
Cs-137	1.000000E+00	4/23/07; RAM Services
Cs-137	1.000000E+00	4/23/07; RAM Services
Cs-137	1.000000E+00	4/23/07; RAM Services
Cs-137	1.000000E+00	4/23/07; RAM Services
Cs-137	7.500000E-01	4/23/07; RAM Services
Cs-137	7.367137E-01	4/23/07; RAM Services
Cs-137	6.600000E-01	4/23/07; RAM Services
Cs-137	3.199147E-01	4/23/07; RAM Services
Cs-137	1.910425E-01	4/23/07; RAM Services
Cs-137	1.192627E-01	4/23/07; RAM Services

Table 6. Continued

Isotope	Activity (uCi unless otherwise noted)	Disposal Description
Cs-137	1.024868E-01	4/23/07; RAM Services
Cs-137	1.000000E-01	4/23/07; RAM Services
Cs-137	6.383432E-02	4/23/07; RAM Services
Cs-137	6.060126E-02	4/23/07; RAM Services
Cs-137	5.364171E-02	4/23/07; RAM Services
Cs-137	4.362709E-02	4/23/07; RAM Services
Cs-137	3.614159E-02	4/23/07; RAM Services
Cs-137	3.015506E-02	4/23/07; RAM Services
Cs-137	2.289900E-02	4/23/07; RAM Services
Cs-137	2.250000E-02	4/23/07; RAM Services
Cs-137	2.083171E-02	4/23/07; RAM Services
Cs-137	2.083171E-02	4/23/07; RAM Services
Cs-137	1.865844E-02	4/23/07; RAM Services
Cs-137	1.494375E-02	4/23/07; RAM Services
Cs-137	1.441789E-02	4/23/07; RAM Services
Cs-137	1.312882E-02	4/23/07; RAM Services
Cs-137	8.914590E-03	4/23/07; RAM Services
Cs-137	8.080190E-03	4/23/07; RAM Services
Cs-137	7.058078E-03	4/23/07; RAM Services
Cs-137	6.718697E-03	4/23/07; RAM Services
Cs-137	6.421354E-03	4/23/07; RAM Services
Cs-137	6.114303E-03	4/23/07; RAM Services
Cs-137	5.364171E-03	4/23/07; RAM Services
Cs-137	4.494989E-03	4/23/07; RAM Services
Cs-137	4.240555E-03	4/23/07; RAM Services
Cs-137	2.223926E-03	4/23/07; RAM Services
Cs-137	2.194804E-03	4/23/07; RAM Services
Cs-137	1.872919E-03	4/23/07; RAM Services
Cs-137	1.513506E-03	4/23/07; RAM Services
Cs-137	1.447333E-03	4/23/07; RAM Services
Cs-137	1.135422E-03	4/23/07; RAM Services
Cs-137	1.073065E-03	4/23/07; RAM Services
Cs-137	1.073065E-03	4/23/07; RAM Services
Cs-137	8.730219E-04	4/23/07; RAM Services
Cs-137 / Zn-65	2.781000E-02	4/23/07; RAM Services
Eu-152	8.679766E-01	4/23/07; RAM Services
Eu-152	7.854134E-01	4/23/07; RAM Services
Eu-152	6.851697E-01	4/23/07; RAM Services
Eu-152	8.673684E-01	4/23/07; RAM Services
Eu-152	8.409079E-01	4/23/07; RAM Services
Eu-152	1 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
Ge-68	3.666 uCi	PETNET Calibration Services / Transfer to Oakwood Village; FEDEX 696459292734
Ge-68	7.091023E-01	4/23/07; RAM Services
H-3	1.266113E-06	4/23/07; RAM Services
H-3		4/23/07; RAM Services

Table 6. Continued

Isotope	Activity (uCi unless otherwise noted)	Disposal Description
H-3	2.500000E+02	4/23/07; RAM Services
H-3	2.500000E+02	4/23/07; RAM Services
H-3	2.500000E+02	4/23/07; RAM Services
H-3	2.487109E+01	4/23/07; RAM Services
H-3	1.707830E+00	4/23/07; RAM Services
H-3	250 uCi	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
H-3 methane	120 pCi/liter	11/6/07; RAM Services - Manifest 2007-X-0045
Hg-203	1.834198E-61	4/23/07; RAM Services
Hg-203	1.741798E-61	4/23/07; RAM Services
Kr-85	5.749240E-01	4/23/07; RAM Services
Kr-85	7.769314E+00	4/23/07; RAM Services
mixed gamma	0.0773 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
Mn-54	5.356398E-09	4/23/07; RAM Services
Mn-54	1.049698E-01	4/23/07; RAM Services
Mn-54	6.425643E-02	4/23/07; RAM Services
Mn-54	1.107163E-01	4/23/07; RAM Services
Na-22	4.779033E-01	4/23/07; RAM Services
Na-22	4.069316E-01	4/23/07; RAM Services
Na-22	4.754759E-01	4/23/07; RAM Services
Ni-63	7.400000E+00	4/23/07; RAM Services
Ni-63	3.957650E-03	4/23/07; RAM Services
Pm 147	tbd	11/6/07; RAM Services - Manifest 2007-X-0045
Pm-147	9.820592E-04	4/23/07; RAM Services
Po-210	1.785256E-05	4/23/07; RAM Services
Po-210	7.433074E-27	4/23/07; RAM Services
Po-210	0.1 uCi	11/27/07; Rocky Mountain Low-Level Rad Waste Board, Permit #TFS-07-01, Manifest 7769
Sr-90	4.081000E-02	4/23/07; RAM Services
Sr-90	1.330000E-03	4/23/07; RAM Services
Sr-90	7.397396E-02	4/23/07; RAM Services
Sr-90	9.296340E-02	4/23/07; RAM Services
Sr-90	1.540729E-02	4/23/07; RAM Services
Sr-90	1.626100E-02	4/23/07; RAM Services
Sr-90	3.027000E-02	4/23/07; RAM Services
Sr-90	2.429261E-04	4/23/07; RAM Services
Sr-90	8.291561E-06	4/23/07; RAM Services
Sr-90	8.270270E-02	4/23/07; RAM Services
Sr-90	4.622226E-02	4/23/07; RAM Services
Sr-90	3.172073E-02	4/23/07; RAM Services
Sr-90	2.322021E-02	4/23/07; RAM Services
Sr-90	2.292336E-02	4/23/07; RAM Services
Sr-90	1.907757E-02	4/23/07; RAM Services
Sr-90	1.629689E-02	4/23/07; RAM Services
Sr-90	1.508108E-02	4/23/07; RAM Services
Sr-90	1.243243E-02	4/23/07; RAM Services

Table 6. Continued

Isotope	Activity (uCi unless otherwise noted)	Disposal Description
Sr-90	1.196396E-02	4/23/07; RAM Services
Sr-90	1.082492E-02	4/23/07; RAM Services
Sr-90	7.153153E-03	4/23/07; RAM Services
Sr-90	6.360360E-03	4/23/07; RAM Services
Sr-90	3.481530E-03	4/23/07; RAM Services
Sr-90	2.730612E-03	4/23/07; RAM Services
Sr-90	2.458873E-03	4/23/07; RAM Services
Sr-90	2.360910E-03	4/23/07; RAM Services
Sr-90	1.731228E-03	4/23/07; RAM Services
Sr-90	1.468468E-03	4/23/07; RAM Services
Sr-90	1.414402E-03	4/23/07; RAM Services
Sr-90	2.051558E-04	4/23/07; RAM Services
Sr-90	0.000000E+00	4/23/07; RAM Services
Tc-99	7.162000E-02	4/23/07; RAM Services
Tc-99	1.000000E-02	4/23/07; RAM Services
Tc-99	3.000000E-03	4/23/07; RAM Services
Tc-99	3.000000E-03	4/23/07; RAM Services
Tc-99	3.000000E-03	4/23/07; RAM Services
Tc-99	335,000 dpm	11/6/07; RAM Services - Manifest 2007-X-0045
Tc-99	0.130 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
Tc-99	7.729544E-02	4/23/07; RAM Services
Tc-99	1.035939E-01	4/23/07; RAM Services
Tc-99	1.759990E-04	4/23/07; RAM Services
Tc-99	3.289954E-01	4/23/07; RAM Services
Tc-99	2.939959E-01	4/23/07; RAM Services
Tc-99	5.889955E-02	4/23/07; RAM Services
Tc-99	4.599965E-02	4/23/07; RAM Services
Tc-99	1.554000E-03	4/23/07; RAM Services
Tc-99	0.1036 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
Tc-99	26,000 dpm	11/6/07; RAM Services - Manifest 2007-X-0045
Tc-99	34,400 dpm	11/6/07; RAM Services - Manifest 2007-X-0045
Tc-99	241,000 cpm	11/6/07; RAM Services - Manifest 2007-X-0045
Tc-99	243,000 cpm	11/6/07; RAM Services - Manifest 2007-X-0045
Tc-99	84,500 cpm	11/6/07; RAM Services - Manifest 2007-X-0045
Tc-99	74,700 cpm	11/6/07; RAM Services - Manifest 2007-X-0045
Tc-99	4.418323E-01	4/23/07; RAM Services
Tc-99	2.169905E-01	4/23/07; RAM Services
Tc-99	1.369995E-01	4/23/07; RAM Services
Tc-99	1.339996E-01	4/23/07; RAM Services
Tc-99	1.052937E-01	4/23/07; RAM Services
Tc-99	5.999781E-02	4/23/07; RAM Services
Tc-99	4.999818E-02	4/23/07; RAM Services
Tc-99	4.889986E-02	4/23/07; RAM Services
Tc-99	4.779984E-02	4/23/07; RAM Services
Tc-99	3.289977E-02	4/23/07; RAM Services
Tc-99	2.619993E-02	4/23/07; RAM Services
Tc-99	2.559900E-02	4/23/07; RAM Services

Table 6. Continued

Isotope	Activity (uCi unless otherwise noted)	Disposal Description
Tc-99	2.339979E-02	4/23/07; RAM Services
Tc-99	2.179993E-02	4/23/07; RAM Services
Tc-99	2.039911E-02	4/23/07; RAM Services
Tc-99	2.000000E-02	4/23/07; RAM Services
Tc-99	1.619897E-02	4/23/07; RAM Services
Tc-99	1.119997E-02	4/23/07; RAM Services
Tc-99	1.000000E-02	4/23/07; RAM Services
Tc-99	1.000000E-02	4/23/07; RAM Services
Tc-99	9.819212E-03	4/23/07; RAM Services
Tc-99	7.409984E-03	4/23/07; RAM Services
Tc-99	6.709673E-03	4/23/07; RAM Services
Tc-99	6.000000E-03	4/23/07; RAM Services
Tc-99	5.999213E-03	4/23/07; RAM Services
Tc-99	4.999677E-03	4/23/07; RAM Services
Tc-99	4.999677E-03	4/23/07; RAM Services
Tc-99	4.319790E-03	4/23/07; RAM Services
Tc-99	4.109800E-03	4/23/07; RAM Services
Tc-99	2.349979E-03	4/23/07; RAM Services
Tc-99	2.339908E-03	4/23/07; RAM Services
Tc-99	2.299979E-03	4/23/07; RAM Services
Tc-99	2.129907E-03	4/23/07; RAM Services
Tc-99	1.669919E-03	4/23/07; RAM Services
Tc-99	9.999973E-04	4/23/07; RAM Services
Tc-99	9.509899E-04	4/23/07; RAM Services
Tc-99	4.499962E-04	4/23/07; RAM Services
Tc-99	4.499962E-04	4/23/07; RAM Services
Tc-99	4.499962E-04	4/23/07; RAM Services
Tc-99	4.499962E-04	4/23/07; RAM Services
Tc-99	4.499962E-04	4/23/07; RAM Services
Tc-99	4.499962E-04	4/23/07; RAM Services
Tc-99	4.499962E-04	4/23/07; RAM Services
Tc-99	4.499962E-04	4/23/07; RAM Services
Tc-99	4.499962E-04	4/23/07; RAM Services
Tc-99	4.499962E-04	4/23/07; RAM Services
Tc-99	4.499565E-04	4/23/07; RAM Services
Tc-99	4.499512E-04	4/23/07; RAM Services
Tc-99	4.439712E-04	4/23/07; RAM Services
Tc-99	2.299899E-04	4/23/07; RAM Services
Tc-99	9.999554E-07	4/23/07; RAM Services
Tc-99	9.999554E-07	4/23/07; RAM Services
Tc-99	9.999554E-07	4/23/07; RAM Services
Tc-99	9.999554E-07	4/23/07; RAM Services
Tc-99	9.999554E-07	4/23/07; RAM Services
Tc-99	9.999554E-07	4/23/07; RAM Services
Tc-99	0.000000E+00	4/23/07; RAM Services
Tc-99	0.000000E+00	4/23/07; RAM Services
Tc-99	0.000000E+00	4/23/07; RAM Services
Tl-204	5.390671E-02	4/23/07; RAM Services

Table 6. Continued

Isotope	Activity (uCi unless otherwise noted)	Disposal Description
Tl-204	1.266 uCi	11/6/07; RAM Services - Manifest 2007-X-0045
Tl-204	5.390700E-02	4/23/07; RAM Services
Xe-133	7.611318E-53	4/23/07; RAM Services
Xe-133	5.414848E-280	4/23/07; RAM Services
Xe-133	0.000000E+00	4/23/07; RAM Services
Xe-133	0.000000E+00	4/23/07; RAM Services
Xe-133	0.000000E+00	4/23/07; RAM Services
Xe-133	0.000000E+00	4/23/07; RAM Services
Zn-65		4/23/07; RAM Services