

**Appendix B**  
**Waste Manifests**

# ADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD (#E-100)

6 of 15

[1] GEN. NAME: Westinghouse  
 ADDRESS: P.O. Box 355  
 CITY/ST/ZIP: Pah. PA. 15230  
 CONTACT PERSON: Irwin Dobrushin  
 PHONE: 412-374-6094

**ENVIROCARE OF UTAH, INC.**  
 46 WEST BROADWAY, SUITE 240  
 SALT LAKE CITY, UTAH 84101  
 PHONE: (801)532-1330  
 FAX: (801)537-7345

[7] PAGE 1 OF 4 RECORD #: 0674-04-01

USE ON ALL CONTINUATION PAGES)

RAIL CAR/TRAILER #: 195-401007  
 Consigned to: ENVIROCARE OF UTAH, INC., CLIVE DISPOSAL SITE  
 INTERSTATE 80, EXIT 49, WEST OF SALT LAKE, UTAH 8402

[2] BILL DISPOSAL CHARGES TO:  
 NAME: Irwin Dobrushin  
 P.O./CONT. #: 38056  
 ADDRESS: Same as above  
 CITY/ST/ZIP:  
 PHONE: 412-374-6094

[5] TOTAL, EACH	PROPER SHIPPING NAME & HAZARD CL	DOT ID
# of	Weight (per 49 CFR 172.101)	NUMBER
Pkgs.	(Tons)	
<u>48</u>	<u>17.6</u>	<u>2910</u>
	<u>Radioactive material in accepted packages, limited quantity of material, UN2910 - Radioactive material</u>	

[6] SHIPMENT TOTALS						TOTAL SNM		
No. of Cont.	Activity in Millicuries					Isotope	Grams	# of Cont.
	H-3*	C-14*	Tc-99*	I-129*	Volume			
	0	0	0			U-233		
		0				U-235	<u>19</u>	<u>42</u>
						Pu		
						Total		
Total								

[3] AGENT/BRKR:  
 CONTACT:  
 ADDRESS: NA  
 CITY/ST/ZIP:  
 PHONE:  
 SIGN/DATE:

**TERMS AND CONDITIONS**  
 A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material is - OR - X is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1.  
 B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc.  
 C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license.  
 D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD, or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.

\* Must show "0" if not present. List additional nuclides and activities in blank spaces provide

THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE REGULATIONS, AND ARE IN COMPLIANCE WITH ALL REQUIREMENTS APPLICABLE AT THE DEPARTMENT AND THE REQUIREMENTS OF 10 CFR PART 61 AND PART 20.311 OR EQUIVALENT STATE REGULATIONS. CERTIFIED THAT ALL ITEMS ON THIS RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD HAVE BEEN EXAMINED, INCLUDING DIAGRAMS, AND ALL INFORMATION SUBMITTED IS TRUE, CORRECT AND COMPLETE.

[4] Wittman  
 CARRIER: Transport SHIP DATE: 10/16/97  
 CARRIER EPA # (if any):  
 ADDRESS: 521 Plymouth St  
 CITY/ST/ZIP: Greensburg PA 15601  
 CONTACT: Bill Bowman  
 PHONE: 412-836-7776

Irwin Dobrushin Sr. Field Rep 9/19/97  
 Authorized Signature of Customer Title Date  
Irwin Dobrushin  
 Printed Name of Authorized Signature

MANIFEST DOCUMENT NUMBER (HAZARDOUS WASTE ONLY):

TYPE OF CONTAINER	Container Volume Cu. Ft.	# of Packages	Cu. Ft. Per Container Type
Overpack:	<u>13</u>	<u>3826</u>	<u>416</u>
55:	<u>8.5</u>	<u>16</u>	<u>136</u>
20:			
30:			
1st Size:			
2nd Size:			
3rd Size:			
Rail cars:			
Truck/Trailer:			
Dump:			
Trailer:			
Other:			
Other:			
Other:			
<b>SHIPMENT TOTALS</b>		<u>48</u>	<u>474</u>

**THIS AREA IS FOR ENVIROCARE OF UTAH, INC. USE ONLY**

CHECK ALL THAT APPLY TO THIS LOAD: DESCRIBE INADEQUACIES IN COMMENTS

COMMENTS:

Record Waste Description Inadequate

Contamination or Leakage Detected

Unexpected Exposure Rates Detected

Labels, Markings, etc. Inadequate

Container Integrity Inadequate

Other

No Violations Detected on this Shipment

SHIPMENT RECEIVED FOR DISPOSAL

SHIPMENT REJECTED FOR DISPOSAL

Daniel Silsen OCT 16 1997  
 INSPECTOR DATE

EC INVOICE #: \_\_\_\_\_  
 INVOICE DATE: \_\_\_\_\_  
 EC CUSTOMER #: \_\_\_\_\_

DISTRIBUTION:  
 White, Yellow, Pink - Must accompany waste in t  
 Green - Must be mailed to & be approved by Envirocare of Utah prior to shipment, unless a copy has been sent by fax.

Gold - Customer Copy.

# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

7 of 15

Generator Name: Westinghouse  
 Agent/Broker: Hittman Transport  
 Dates #: NA

Record #: 0674-04-01  
 Page 2 of 2

Item #	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Cont. (MBq)	Total Activity per nuclide (per Cont.) (mcuries)	Radio-nuclide Conc. pCi/gram	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Hazard Class	D.O.T. Label (49 CFR 172.400)	
																Surface	Meter	Office Use Only				
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19a]	[19b]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	
3046	200 L Drum	13	3.37	Solid	A	None	Scalable debris	ONidol	NA	U-235	$4.9 \times 10^{-2}$	$5.1 \times 10^{-4}$	1.73	0.24			0.02	0.01		NA	NA	NA
3044			3.6				concrete/dirt				$2.8 \times 10^{-2}$	$7.5 \times 10^{-5}$	3.02	0.04			0.01	0.01				
3047			0.36				dirt				$3 \times 10^{-2}$	$1.8 \times 10^{-4}$	1.04	0.08			0.01	0.01				
3064			0.35				Scalable debris				$8.9 \times 10^{-2}$	$2.4 \times 10^{-4}$	0.97	0.11			0.01	0.01				
3071			0.39				concrete				$3.3 \times 10^{-2}$	$7.1 \times 10^{-4}$	3.0	0.13			0.01	0.01				
<del>3072</del>			<del>0.35</del>				<del>concrete/dirt</del>				<del><math>7.2 \times 10^{-2}</math></del>	<del><math>9.7 \times 10^{-5}</math></del>	<del>3.5</del>	<del>0.16</del>			<del>0.01</del>	<del>0.01</del>				<del>7.9</del>
<del>3073</del>			<del>0.37</del>				<del>concrete/dirt</del>				<del>5.5</del>	<del><math>1.4 \times 10^{-4}</math></del>	<del>3.5</del>	<del>0.14</del>			<del>0.01</del>	<del>0.01</del>				
<del>3081</del>			<del>0.30</del>								<del>2.4</del>	<del><math>8.16 \times 10^{-4}</math></del>	<del>3.5</del>	<del>0.10</del>			<del>0.01</del>	<del>0.01</del>				
<del>3085</del>			<del>0.30</del>								<del>5.0</del>	<del><math>8.0 \times 10^{-4}</math></del>	<del>3.5</del>	<del>0.11</del>			<del>0.01</del>	<del>0.01</del>				
<del>3086</del>			<del>0.30</del>								<del>2.6</del>	<del><math>1.1 \times 10^{-4}</math></del>	<del>3.5</del>	<del>0.10</del>			<del>0.01</del>	<del>0.01</del>				
<del>3087</del>			<del>0.31</del>								<del>5.0</del>	<del><math>8.5 \times 10^{-4}</math></del>	<del>3.5</del>	<del>0.11</del>			<del>0.01</del>	<del>0.01</del>				
3089			0.15				dirt/debris				$2 \times 10^{-3}$	$5.5 \times 10^{-5}$	0.62	0.03			0.01	0.01				
3088			0.27				Scalable debris				$1.4 \times 10^{-2}$	$3.8 \times 10^{-4}$	1.9	0.18			0.01	0.01				
3024			0.36								$1.9 \times 10^{-2}$	$5.2 \times 10^{-4}$	1.9	0.25			0.01	0.01				
3031			0.31				dirt				$5.6 \times 10^{-3}$	$1.5 \times 10^{-4}$	0.62	0.07			0.01	0.01				
3032			0.33				dirt				$2.1 \times 10^{-2}$	$5.8 \times 10^{-4}$	2.3	0.3			0.01	0.01				
3033			0.28								$1.7 \times 10^{-2}$	$4.7 \times 10^{-4}$	2.3	0.2			0.01	0.01				
3036			0.34								$2.2 \times 10^{-2}$	$6.0 \times 10^{-4}$	2.3	0.3			0.01	0.01				
3037			0.25								$1.6 \times 10^{-2}$	$4.2 \times 10^{-5}$	2.3	0.2			0.01	0.01				
3038			0.31				Concrete				$2 \times 10^{-2}$	$5.3 \times 10^{-4}$	2.3	0.25			0.01	0.01				
20		260	<del>4.43</del>	PAGE TOTALS							TOTAL ACTIVITY		<del>5.7</del>	5.7	TOTAL SNM		<del>2.4</del>	2.4				





# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

9 of 15

Generator Name: Westinghouse  
 Agent/Broker: Hittman Transport  
 Bates #: NA

Record #: 0674-04-01  
 Page 2 of 2

Item #	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Container (MBq)	Total Activity per nuclide (per Cont.) (mcuries)	Radio-nuclide Conc. pCi/gram	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Hazard Class	D.O.T. Label (49 CFR 172.400)	
																Surface	Met	Office Use Only				
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19a]	[19b]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	
B-06	Drum	8.5	.07	Solid	A	None	trash	2x180/None	NA	11-235	-	-	-	.1	-	.01	.01		NA	NA	NA	
B-063			.21				Scrap Metal				-	-	-	<.1	-	.01	.01					
B-067			.12				trash				-	-	-	<.1	-	.01	.01					
B-071			.36				concrete				-	-	-	<.1	-	.01	.01					
B-072			.10				concrete				-	-	-	<.1	-	.01	.01					
B-073			.07				trash				-	-	-	<.1	-	.01	.01					
B-079			.30				debris 100 cumberbags				$7.7 \times 10^{-3}$	$2.1 \times 10^{-4}$	.87	.21	-	.01	.01					
B-084			.33				Sample Lab bags				$4.1 \times 10^{-3}$	$1.1 \times 10^{-4}$	.87	.11	-	.01	.01					
											<b>PAGE TOTALS</b>											
											<b>TOTAL ACTIVITY</b>		$3.2 \times 10^{-4}$									
															<b>TOTAL SNM</b>							



# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse  
 Agent/Broker: Hittman Transport  
 Bates #: \_\_\_\_\_

Record #: 0674-4-02  
 Page 2 of 14

Item [8]	Container Type [9]	Container Volume (Cu. Ft.) [10]	Waste Net Weight (Tons) [11]	Physical Form [12]	Waste Class (A,B,C) [13]	Solidification Agent (if any) [14]	Waste Description [15]	Chemical Form/Chelating Agent [16]	Chelating Agent Conc. [17]	Radio-nuclides Present [18]	Total Activity per Container (MBq) [19a]	Total Activity per nuclide (per Cont.) (mcuries) [19b]	Radio-nuclide Conc. pCi/gram [20]	SNM grams [21]	Source Material (Kg) [22]	Radiation Levels ((mR/hr) (uR/h))			Transport Index [26]	Hazard Class [27]	D.O.T. Label (49 CFR 172.400) [28]	
																Surface [23]	Met [24]	Office Use Only [25]				
1269	Bag	30	1.5	Solid	A	None	dirt/debris	oxide/NA	NA	U-235	$3 \times 10^{-1}$	$9 \times 10^{-3}$	6.5	4.2		.01	.01		NA	24	Radioactive	
1271			1.5								$3 \times 10^{-1}$	$9 \times 10^{-3}$	6.7	4.2		.01	.01					
1273			1.46								$3 \times 10^{-1}$	$9 \times 10^{-3}$	6.8	4.2		.01	.01					
1275			1.5								$4 \times 10^{-1}$	$1.1 \times 10^{-2}$	8.3	5.2		.01	.01					
1276			1.4								$3.4 \times 10^{-1}$	$9.3 \times 10^{-3}$	7.3	4.4		.01	.01					
1277			1.5								$3.4 \times 10^{-1}$	$9.2 \times 10^{-3}$	6.8	4.3		.01	.01					
1278			1.5								$3.3 \times 10^{-1}$	$8.9 \times 10^{-3}$	6.6	4.2		.01	.01					
1279			1.52								$3.2 \times 10^{-1}$	$8.7 \times 10^{-3}$	6.3	4.0		.01	.01					
1280			1.48								$3.1 \times 10^{-1}$	$8.3 \times 10^{-3}$	6.2	3.9		.01	.01					
1281			1.51								$3.2 \times 10^{-1}$	$8.5 \times 10^{-3}$	6.2	4.0		.01	.01					
1282			1.53								$3.3 \times 10^{-1}$	$8.9 \times 10^{-3}$	6.4	4.4		.01	.01					
1283			1.51								$3.4 \times 10^{-1}$	$9.1 \times 10^{-3}$	6.6	4.0		.01	.01					
1284			1.52								$3.2 \times 10^{-1}$	$8.6 \times 10^{-3}$	6.2	3.6		.01	.01					
1285			1.2								$2.8 \times 10^{-1}$	$7.7 \times 10^{-3}$	7.1	3.6		.01	.01					
14		420	20.6	PAGE TOTALS							TOTAL ACTIVITY		$1.25 \times 10^1$	TOTAL SNM		57.9						

Radioactive Material  
 Placard

# ADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD (#E-100)

0674-04-003 of 11

[1] GEN. NAME: Westinghouse  
 ADDRESS: Westinghouse Road  
 CITY/ST/ZIP: Blairsville, PA, 15717  
 CONTACT PERSON: Irwin Dabrushin  
 PHONE: 412-374-6094

**ENVIROCARE OF UTAH, INC.**  
 46 WEST BROADWAY, SUITE 240  
 SALT LAKE CITY, UTAH 84101  
 PHONE: (801)532-1330  
 FAX: (801)537-7345

[7] PAGE 1 OF 2 RECORD #: 640-04-03  
 USE ON ALL CONTINUATION PAGES)  
 RAIL CAR/TRAILER #: CAH0601 / Trade 0602  
 Consigned to: ENVIROCARE OF UTAH, INC., CLIVE DISPOSAL SITE  
 INTERSTATE 80, EXIT 49, WEST OF SALT LAKE, UTAH 8402

[2] BILL DISPOSAL CHARGES TO:  
 NAME: Westinghouse Electric  
 P.O./CONT. #: 38056  
 ADDRESS: P.O. Box 355  
 CITY/ST/ZIP: Pgh. PA. 15230  
 PHONE: 412-374-6094

[5] TOTAL, EACH		PROPER SHIPPING NAME & HAZARD CL	DOT
# of	Weight	(per 49 CFR 172.101)	ID
Pkgs.	(Tons)		NUMBER
16	21.3	Radioactive material excepted Package limited quantity of material, 7.39N 2910, Fissile excepted	2910

[6] SHIPMENT TOTALS						TOTAL SNM		
No. of	Activity in Millicuries					Isotope	Grams	# of Cont.
	Cont.	H-3*	C-14*	Tc-99*	I-129*			
16		0	0	0	0	U-233	0	0
		0	0	0	0	U-235	35	16
		0	0	0	0	Pu	0	0
		0	0	0	0	Total	35	16
Volume						PHYSICAL FORM		
Cu. Ft.	480					Solid		
						CHEMICAL FORM		
						Oxide		
	Total 78910 <sup>-2</sup>							

[3] AGENT/BRKR:  
 CONTACT: NA  
 ADDRESS:  
 CITY/ST/ZIP:  
 PHONE:  
 SIGN/DATE:

**TERMS AND CONDITIONS**  
 A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material is -- OR -- X is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1.

[4] CARRIER: Autumn Transport SHIP DATE: 10/16/97  
 CARRIER EPA # (if any):  
 ADDRESS: 519 Perkins Jones Rd  
 CITY/ST/ZIP: Warren, Ohio 44483  
 CONTACT: Mark Huggins  
 PHONE: 330-372-5002

B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc.

C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license.

D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD, or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.

\* Must show "0" if not present. List additional nuclides and activities in blank spaces provide

THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE DOT REGULATIONS, AND ARE IN COMPLIANCE WITH ALL REQUIREMENTS APPLICABLE AT THE DESIGNATED DISPOSAL AND THE REQUIREMENTS OF 10 CFR PART 61 AND PART 20.311 OR EQUIVALENT STATE REGULATIONS. IT IS FURTHER CERTIFIED THAT ALL ITEMS ON THIS RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD HAVE BEEN THOROUGHLY EXAMINED, INCLUDING DIAGRAMS, AND ALL INFORMATION SUBMITTED IS TRUE, CORRECT AND COMPLETE.

Irwin Dabrushin Sr. Ind Hygienist 10/16/97  
 Authorized Signature of Customer Title Date  
Irwin Dabrushin  
 Printed Name of Authorized Signature

MANIFEST DOCUMENT NUMBER  
 (HAZARDOUS WASTE ONLY):

TYPE OF CONTAINER	Container Volume Cu. Ft.	# of Packages	Cu. Ft. Per Container Type
Drums:			
Overpack:			
55:			
30:			
Boxes:			
1st Size:			
2nd Size:			
3rd Size:			
Rail cars:			
Truck/Trailer:			
Dump:			
Trailer:			
Other:	30	16	480
Other:			
Other:			
<b>SHIPMENT TOTALS</b>		<b>16</b>	<b>480</b>

**THIS AREA IS FOR ENVIROCARE OF UTAH, INC. USE ONLY**

CHECK ALL THAT APPLY TO THIS LOAD: DESCRIBE INADEQUACIES IN COMMENTS		EC INVOICE #:
<input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other		INVOICE DATE:
<input checked="" type="checkbox"/> No Violations Detected on this Shipment		EC CUSTOMER #:
COMMENTS: SHIPMENT RECEIVED FOR DISPOSAL SHIPMENT REJECTED FOR DISPOSAL		DISTRIBUTION:
SHIPMENT RECEIVED FOR DISPOSAL <u>David Wilson</u> OCT 21 1997 INSPECTOR DATE		White, Yellow, Pink - Must accompany waste in transit. Green - Must be mailed to & be approved by Envirocare of Utah prior to shipment, unless a copy has been sent by fax. Gold - Customer Copy.

ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

5 of 11

Generator Name: Westinghouse Electric  
 Agent/Broker: NA  
 Bates #: NA

Record #: 0674-04-03  
 Page 2 of 2

Item #	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Cont. (MBq)	Total Activity per nuclide (per Cent.) (mcuries)	Radio-nuclide Conc. pCi/gram	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Hazard Class	D.O.T. Label (49 CFR 172.400)	
																Surface	Met	Office Use Only				
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	
B-1164	Bag	30	1.4	solid	A	NA	dirt/debris	oxide/NA	None	U-235	.64	1.7x10 <sup>-2</sup>	13	8.1	-	.04	.01		NA		Radioactive	
B-1215			1.6								.43	1.2x10 <sup>-2</sup>	8.2	5.5		.03	.01					
B-1248			1.6								.67	1.8x10 <sup>-2</sup>	1.2x10 <sup>1</sup>	8.5		.01	.01					
B-1270			1.5								.31	8.4x10 <sup>-3</sup>	6.1	3.9		.01	.01					
B-1272			1.4								.30	8.1x10 <sup>-3</sup>	6.2	3.8		.01	.01					
B-1274			1.5								.30	8.1x10 <sup>-3</sup>	5.9	3.8		.01	.01					
B-1516			1.1				dirt/slag				.03	7.9x10 <sup>-4</sup>	0.8	0.3	0.21	.01	.01					
B-1567			1.2				dirt				.01	3.1x10 <sup>-4</sup>	0.3	0.14		.04	.09					
B-1568			1.2								.02	4.6x10 <sup>-4</sup>	0.4	0.22		.02	.01					
B-1569			1.2								.02	4.8x10 <sup>-4</sup>	0.4	0.22		.02	.01					
B-1571			1.2								.006	1.7x10 <sup>-4</sup>	0.16	0.09		.02	.01					
B-1572			1.3								.007	1.9x10 <sup>-4</sup>	0.16	0.09		.03	.01					
B-1573			1.2								.006	1.5x10 <sup>-4</sup>	0.14	0.07		.03	.01					
B-1574			1.2								.005	1.5x10 <sup>-4</sup>	0.13	0.07		.02	.01					
B-1575			1.3								.007	2.0x10 <sup>-4</sup>	0.17	0.09		.03	.01					
B-1576			1.4								.009	2.3x10 <sup>-4</sup>	0.18	0.11		.03	.01					
10		480	21.3	PAGE TOTALS																		
											TOTAL ACTIVITY		7.4x10 <sup>-2</sup>		TOTAL SNM		35					

Distribution of Copies (Please circle copy number) 2 Must accompany waste in transit

4 Must be approved by Envirocare (mail or fax) prior to shipment

5 Customer copy

# ADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD (#E-100)

2 of 11

[1] GEN. NAME: Westinghouse  
 ADDRESS: Westinghouse Rd.  
 CITY/ST/ZIP: Blairsville, Pa 15717  
 CONTACT PERSON: Erwin Dobrushin  
 PHONE: 412-374-6094

**ENVIROCARE OF UTAH, INC.**  
 46 WEST BROADWAY, SUITE 240  
 SALT LAKE CITY, UTAH 84101  
 PHONE: (801)532-1330  
 FAX: (801)537-7345

[7] PAGE 1 OF 2 RECORD #: 0674-04-04  
 USE ON ALL CONTINUATION PAGES)  
 RAIL CAR/TRAILER #: 52003/03  
 Consigned to: ENVIROCARE OF UTAH, INC., CLIVE DISPOSAL SITE  
 INTERSTATE 80, EXIT 49, WEST OF SALT LAKE, UTAH 8402

[2] BILL DISPOSAL CHARGES TO:  
 NAME: Westinghouse Electric  
 P.O./CONT. #: MB-38056  
 ADDRESS: P.O. Box 355  
 CITY/ST/ZIP: Pgh. PA 15230  
 PHONE: 412-374-6094

[5] TOTAL, EACH		PROPER SHIPPING NAME & HAZARD CL	DOT
# of	Weight	(per 49 CFR 172.101)	ID
Pkgs.	(Tons)		NUMBER
14	21.2	Radioactive material excepted package limited quantity of material 7, UN2910, (Fissile excepted)	UN 2910

[6] SHIPMENT TOTALS						TOTAL SNM		
No. of Cont.	Activity in Millicuries					Isotope	Grams	# of Cont.
		H-3*	0				U-233	
14	C-14*	0				U-235	88	14
	Tc-99*	0				Pu		
Volume	I-129*	0				Total	88	14
Cu. Ft.	U-235	1.7x10 <sup>-1</sup>				PHYSICAL FORM		
420						Solid		
						CHEMICAL FORM		
						Oxide		
					Total			

[3] AGENT/BRKR:  
 CONTACT:  
 ADDRESS: NA  
 CITY/ST/ZIP:  
 PHONE:  
 SIGN/DATE:

**TERMS AND CONDITIONS**  
 A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material \_\_\_ is -- OR -- \_\_\_ is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1.

B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc.

C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license.

D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD, or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.

\* Must show "0" if not present. List additional nuclides and activities in blank spaces provide

THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE D.O.T. REGULATIONS, AND ARE IN COMPLIANCE WITH ALL REQUIREMENTS APPLICABLE AT THE DESIGNATED DISPOSAL AND THE REQUIREMENTS OF 10 CFR PART 61 AND PART 20.311 OR EQUIVALENT STATE REGULATIONS. IT IS FURTHER CERTIFIED THAT ALL ITEMS ON THIS RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD HAVE BEEN THOROUGHLY EXAMINED, INCLUDING DIAGRAMS, AND ALL INFORMATION SUBMITTED IS TRUE, CORRECT AND COMPLETE.

[4] Autumn  
 CARRIER: Transport SHIP DATE: 10/16/97  
 CARRIER EPA # (if any):  
 ADDRESS: 518 Perkins Lane Rd  
 CITY/ST/ZIP: Warren, Ohio 44483  
 CONTACT: Mark Huggins  
 PHONE: 330-372-5002

Erwin Dobrushin Sr. Ind Hyg. 10/16/97  
 Authorized Signature of Customer Title Date  
Erwin Dobrushin  
 Printed Name of Authorized Signature

MANIFEST DOCUMENT NUMBER  
 (HAZARDOUS WASTE ONLY):

TYPE OF CONTAINER	Volume Cu. Ft.	# of Packages	Cu. Ft. Per Container Type
Drums:			
Overpack:			
55:			
30:			
Boxes:			
1st Size:			
2nd Size:			
3rd Size:			
Rail cars:			
Truck/Trailer:			
Dump:			
Trailer:			
Other:	30	14	420
Other:			
Other:			
SHIPMENT TOTALS			420

**THIS AREA IS FOR ENVIROCARE OF UTAH, INC. USE ONLY**

CHECK ALL THAT APPLY TO THIS LOAD: DESCRIBE INADEQUACIES IN COMMENTS

COMMENTS:

Record Waste Description Inadequate  
 Contamination or Leakage Detected  
 Unexpected Exposure Rates Detected  
 Labels, Markings, etc. Inadequate  
 Container Integrity Inadequate  
 Other

No Violations Detected on this Shipment

SHIPMENT RECEIVED FOR DISPOSAL   
 SHIPMENT REJECTED FOR DISPOSAL

Daniel Silson OCT 21 1997  
 INSPECTOR DATE

EC INVOICE #:  
 INVOICE DATE:  
 EC CUSTOMER #:

DISTRIBUTION:  
 White, Yellow, Pink - Must accompany waste in transit.  
 Green - Must be mailed to & be approved by Envirocare of Utah prior to shipment, unless a copy has been sent by fax.  
 Gold - Customer Copy.

# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

3 of 11

Generator Name: Westinghouse  
 Agent/Broker: \_\_\_\_\_  
 Bates #: \_\_\_\_\_

Record #: 0674-04-04  
 Page 2 of 2

Item	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Cont. (MBq)	Total Activity per nuclide (per Cont.) (mcuries)	Radio-nuclide Conc. pCi/gram	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Hazard Class	D.O.T. Label (49 CFR 172.400)
																Surface	Met	Office Use Only			
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]
1155	bag	30	1.6	solid	A	None	dirt debris	oxide/NA	NA	U-235	.81	2.2x10 <sup>-2</sup>	15.6	10	-	.03	.01		NA	NA	Radioactive
1165			1.4								.07	2x10 <sup>-3</sup>	1.5	9.1		.03	.01				
1166			1.6								.74	2x10 <sup>-2</sup>	13.9	9.4		.04	.01				
1239			1.6								.67	1.8x10 <sup>-2</sup>	12.1	8.3		.02	.01				
1244			1.7								.63	1.7x10 <sup>-2</sup>	11.6	7.7		.01	.01				
1251			1.7								.67	1.8x10 <sup>-2</sup>	11.7	8.5		.01	.01				
1252			1.4								.52	1.4x10 <sup>-2</sup>	10.4	6.3		.01	.01				
1256			1.5								.48	1.3x10 <sup>-2</sup>	9.5	5.9		.01	.01				
1257			1.4								.34	9.1x10 <sup>-3</sup>	7.2	4.2		.01	.01				
1261			1.5								.28	7.2x10 <sup>-3</sup>	5.6	3.6		.01	.01				
1266			1.5								.31	8.3x10 <sup>-3</sup>	6.0	3.9		.01	.01				
1267			1.4								.28	7.5x10 <sup>-3</sup>	5.7	3.5		.01	.01				
1268			1.5								.29	7.9x10 <sup>-3</sup>	5.8	3.7		.01	.01				
			1.4								.29	7.9x10 <sup>-3</sup>	6.1	3.7		.01	.01				
14		420	21.2	PAGE TOTALS							TOTAL ACTIVITY		1.7x10 <sup>-1</sup>	88	TOTAL SNM						



# ADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD (#E-100)

[1] GEN. NA Westinghouse Electric  
 ADDRESS: Westinghouse Road  
 CITY/ST/ZIP Blairsville, PA  
 CONTACT P. Irwin Dobrushin  
 PHONE: 412-374-6094

**ENVIROCARE OF UTAH, INC.**  
 46 WEST BROADWAY, SUITE 240  
 SALT LAKE CITY, UTAH 84101  
 PHONE: (801)532-1330  
 FAX: (801)537-7345

[7] PAGE 1 OF 2 RECORD #: 0674-04-05  
 USE ON ALL CONTINUATION PAGES)  
 RAIL CAR/TRAILER #: 40201/40202  
 Consigned to: ENVIROCARE OF UTAH, INC., CLIVE DISPOSAL SITE  
 INTERSTATE 80, EXIT 49, WEST OF SALT LAKE, UTAH 8402

Revision  
10/24/97  
Irwin  
Dobrushin

5  
20615

[2] BILL DISPOSAL CHARGES TO:  
 NAME: Westinghouse Electric  
 P.O./CONT. MB 38056  
 ADDRESS: P. O. Box 355  
 CITY/ST/ZIP Pittsburgh, PA  
 PHONE: 412-374-6094

[5] TOTAL, EACH		PROPER SHIPPING NAME & HAZARD CL	DOT
# of	Weight	(per 49 CFR 172.101)	ID
Pkgs.	(Tons)		NUMBER
14	20.8	Radioactive material excepted package, limited quantity, 7, UN 2910, (fissile excepted)	UN 2910

[8] SHIPMENT TOTALS						TOTAL SNM		
No. of	Activity in Millicuries					Isotope	Grams	# of Cont.
	Cont.	H-3*	C-14*	Tc-99*	I-129*			
14		0	0	0	0	U-233	-	-
		0	0	0	0	U-235	889	14
		0	0	0	0	Pu	-	-
		0	0	0	0	Total	889	14
420	Volume	0	0	0	0	PHYSICAL FORM		
	Cu. Ft.	0	0	0	0	solid		
		0	0	0	0	CHEMICAL FORM		
		0	0	0	0	oxide		
		0	0	0	0	Total 2.2110 <sup>3</sup>		

**TERMS AND CONDITIONS**

A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material \_\_\_ is -- OR --  is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1.

B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc.

C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license.

D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD, or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.

[3] AGENT/BRKR: \_\_\_\_\_  
 CONTACT: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 CITY/ST/ZIP: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
 SIGN/DATE: \_\_\_\_\_

[4] CARRIER: Autumn TransSHIP DATE: 10/24/97  
 CARRIER EPA # (if any): \_\_\_\_\_  
 ADDRESS: 518 Perkins Jones Rd.  
 CITY/ST/ZIP Warren, Ohio 44483  
 CONTACT: Mark Huggins  
 PHONE: 330-372-5002

MANIFEST DOCUMENT NUMBER (HAZARDOUS WASTE ONLY): \_\_\_\_\_

TYPE OF CONTAINER	ntainer Volum Cu. Fl.	# of Packages	Cu. Ft. Per Container Type
Drums:			
Overpack:			
55:			
30:			
Boxes:			
1st Size:			
2nd Size:			
3rd Size:			
Rail cars:			
Truck/Trailer:			
Dump:			
Trailer:			
Other:	30	14	420
Other:			
Other:			
SHIPMENT TOTALS		146	420

\* Must show "0" if not present. List additional nuclides and activities in blank spaces provide

THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESC AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE REGULATIONS, AND ARE IN COMPLIANCE WITH ALL REQUIREMENTS APPLICABLE AT THE DE AND THE REQUIREMENTS OF 10 CFR PART 61 AND PART 20.311 OR EQUIVALENT STATE REGU CERTIFIED THAT ALL ITEMS ON THIS RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD H EXAMINED, INCLUDING DIAGRAMS, AND ALL INFORMATION SUBMITTED IS TRUE, CORRECT

10/24/97  
 Irwin Dobrushin Sr. Ind. Hys  
 Authorized Signature of Customer Title Date  
 Irwin Dobrushin  
 Printed Name of Authorized Signature

**THIS AREA IS FOR ENVIROCARE OF UTAH, INC. USE ONLY**

CHECK ALL THAT APPLY TO THIS LOAD: DESCRIBE INADEQUACIES IN COMMENTS	EC INVOICE #: _____
<input type="checkbox"/> Record Waste Description Inadequ <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Sh	INVOICE DATE: _____ EC CUSTOMER #: _____ DISTRIBUTION: White, Yellow, Pink - Must accompany waste in t Green - Must be mailed to & be approved by Env of Utah prior to shipment, unless a cop has been sent by fax. Gold - Customer Copy.
SHIPMENT RECEIVED FOR DISPOSAL SHIPMENT REJECTED FOR DISPOSAL _____ INSPECTOR	_____ DATE OCT 28 1997



ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse  
 Agent/Broker: \_\_\_\_\_  
 Bates #: \_\_\_\_\_

Record #: 0674-04-05  
 Page 2 of 2

9015

Item #	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Cont. (MBq)	Total Activity per nuclide (per Cont.) (mcuries)	Radio-nuclide Conc. pCi/gram	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Fissile Class	D.O.T. Label (49 CFR 172.400)
																Surface	Meter	Office Use Only			
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]
B-1007	bag	30	1.4	Solid	A	None	dirt/sod	oxae/NA	NA	U-235	1.0	2.8x10 <sup>-2</sup>	22.2	13	-0-	.03	.01		NA	NA	NONE
B-1010			1.4								1.1	2.9x10 <sup>-2</sup>	22.9	13.5		.03	.01				
B-1142			1.3				dirt/debris				.6	1.5x10 <sup>-2</sup>	13.3	7.1		.04	.01				
B-1161			1.4								.6	1.5x10 <sup>-2</sup>	11.8	6.9		.03	.01				
B-1169			1.6								.6	1.6x10 <sup>-2</sup>	11.4	7.5		.04	.01				
B-1177			1.6								.4	1.1x10 <sup>-2</sup>	7.4	4.9		.02	.01				
B-1178			1.7								.4	1x10 <sup>-2</sup>	6.9	4.9		.03	.01				
B-1197			1.6								.6	1.7x10 <sup>-2</sup>	11.7	7.9		.02	.01				
B-1203			1.4								1.1	2.9x10 <sup>-2</sup>	22.9	13.4		.02	.01				
B-1260			1.5								1.1	3x10 <sup>-2</sup>	22.4	3.8		.01	.01				delete JTD 10/24/97
B-1565			1.3				dirt				.025	4x10 <sup>-4</sup>	.35	.2		.01	.01				
B-1566			1.3								.020	4.4x10 <sup>-4</sup>	.37	.2		.02	.01				
B-1581			1.3				dirt/slag				.010	1.9x10 <sup>-4</sup>	.16	.1		.03	.01				
B-1587			1.6								-	-	-	<.1		.02	.01				
B-1598			1.1				dirt/slag				.25	6.8x10 <sup>-3</sup>	6.7	3.2		.02	.01				delete JTD 10/24/97
B-1179			1.6				dirt/debris				.47	1.1x10 <sup>-2</sup>	7.9	5.3		.02	.01				
											4.7x10 <sup>-1</sup>	1.1x10 <sup>-2</sup>	1.1	5.3		.02	.01				JTD 10/17/97

420 20.8  
 480 23.4  
 14 JTD  
 JTD JTD  
 PAGE TOTALS  
 TOTAL ACTIVITY  $1.8 \times 10^{-1}$   
 TOTAL SNM 82.9 JTD 10/24/97

# ADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD (#E-100)

[1] GEN. NA Westinghouse Electric  
 ADDRESS: Westinghouse Road  
 CITY/ST/ZIP Blairsville, PA  
 CONTACT P Irwin Dobrushin  
 PHONE: 412-374-6094

**ENVIROCARE OF UTAH, INC.**  
 46 WEST BROADWAY, SUITE 240  
 SALT LAKE CITY, UTAH 84101  
 PHONE: (801)532-1330  
 FAX: (801)537-7345

[7] PAGE 1 OF 2 RECORD #: 0674-04 -05

USE ON ALL CONTINUATION PAGES)  
 RAIL CAR/TRAILER #: 40201/40202  
 Consigned to: ENVIROCARE OF UTAH, INC., CLIVE DISPOSAL SITE  
 INTERSTATE 80, EXIT 49, WEST OF SALT LAKE, UTAH 8402

Revision  
10/24/97

Irwin  
Dobrushin

5  
202

[2] BILL DISPOSAL CHARGES TO:  
 NAME: Westinghouse Electric  
 P.O./CONT. MB 38056  
 ADDRESS: P. O. Box 355  
 CITY/ST/ZIP Pittsburgh, PA  
 PHONE: 412-374-6094

[5] TOTAL, EACH	PROPER SHIPPING NAME & HAZARD CL	DOT ID
# of Pkgs. (Tons)	(per 49 CFR 172.101)	NUMBER
14 <del>224</del>	Radioactive material excepted package, limited quantity, 7, UN 2910, (fissile excepted)	UN 2910
20.8		

[8] SHIPMENT TOTALS					TOTAL SNM		
No. of Cont.	Activity in Millicuries				Isotope	Grams	# of Cont.
	H-3*	C-14*	Tc-99*	I-129*			
14	0	0	0	0	U-233	-	-
14	0	0	0	0	U-235	<del>888</del>	14
14	0	0	0	0	Pu	-	-
420	0	128.10	-	-	Total	<del>888</del>	14
Total						2.2110	

JTD

[3] AGENT/BRKR:  
 CONTACT:  
 ADDRESS:  
 CITY/ST/ZIP:  
 PHONE:  
 SIGN/DATE:

**TERMS AND CONDITIONS**  
 A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material    is -- DR -- X is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1.

B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc.

C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license.

D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD, or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.

\* Must show "0" if not present. List additional nuclides and activities in blank spaces provide

THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESC AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE REGULATIONS, AND ARE IN COMPLIANCE WITH ALL REQUIREMENTS APPLICABLE AT THE DE AND THE REQUIREMENTS OF 10 CFR PART 61 AND PART 20.311 OR EQUIVALENT STATE REGU CERTIFIED THAT ALL ITEMS ON THIS RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD H EXAMINED, INCLUDING DIAGRAMS, AND ALL INFORMATION SUBMITTED IS TRUE, CORRECT

[4] CARRIER: Autumn Trans SHIP DATE: 10/24/97  
 CARRIER EPA # (if any):  
 ADDRESS: 518 Perkins Jones Rd.  
 CITY/ST/ZIP Warren, Ohio 44483  
 CONTACT: Mark Huggins  
 PHONE: 330-372-5002

MANIFEST DOCUMENT NUMBER  
 (HAZARDOUS WASTE ONLY):

10/24/97  
 10/21/97

Irwin Dobrushin Sr. Ind. Hys  
 Authorized Signature of Customer Title Date

Irwin Dobrushin  
 Printed Name of Authorized Signature

TYPE OF CONTAINER	ntainer Volume Cu. Ft.	# of Packages	Cu. Ft. Per Container Type
Drums:			
Overpack:			
55:			
30:			
Boxes:			
1st Size:			
2nd Size:			
3rd Size:			
Rail cars:			
Truck/Trailer:			
Dump:			
Trailer:			
Other:	30	14	420
Other:			
Other:			
<b>SHIPMENT TOTALS</b>		14	420

**THIS AREA IS FOR ENVIROCARE OF UTAH, INC. USE ONLY**

CHECK ALL THAT APPLY TO THIS LOAD: DESCRIBE INADEQUACIES IN COMMENTS

<input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other	COMMENTS:  SHIPMENT RECEIVED FOR DISPOSAL SHIPMENT REJECTED FOR DISPOSAL	EC INVOICE #: INVOICE DATE: EC CUSTOMER #:  DISTRIBUTION: White, Yellow, Pink - Must accompany waste in t Green - Must be mailed to & be approved by Env of Utah prior to shipment, unless a cop has been sent by fax. Gold - Customer Copy.
--	---	---

No Violations Detected on this Shipment

INSPECTOR: David Wilson DATE: OCT 28 1997

# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse  
 Agent/Broker: \_\_\_\_\_  
 Bates #: \_\_\_\_\_

Record #: 0674-04-05  
 Page 2 of 2

51205

Item #	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Cont. (MBq)	Total Activity per nuclide (per Cont.) (mcuries)	Radio-nuclide Conc. (pCi/gram)	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Fissile Class	D.O.T. Label (49 CFR 172.400)
																Surface	Met	Office Use Only			
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]
B-1007	bag	30	1.4	Solid	A	None	dirt/sod	oxide/NA	NA	U-235	1.0	2.8x10 <sup>-2</sup>	22.2	13	-0-	.03	.01		NA	NA	NONE
B-1010			1.4				{ }				1.1	2.9x10 <sup>-2</sup>	22.9	13.5		.03	.01				<del>Radioactive</del>
B-1142			1.3				dirt/debris				.6	1.5x10 <sup>-2</sup>	13.3	7.1		.04	.01				
B-1161			1.4				{ }				.5	1.5x10 <sup>-2</sup>	11.8	6.9		.03	.01				
B-1169			1.6				{ }				.6	1.6x10 <sup>-2</sup>	11.4	7.5		.04	.01				
B-1177			1.6				{ }				.4	1.1x10 <sup>-2</sup>	7.4	4.9		.02	.01				
B-1178			1.7				{ }				.4	1x10 <sup>-2</sup>	6.9	4.9		.03	.01				
B-1197			1.6				{ }				.6	1.7x10 <sup>-2</sup>	11.7	7.9		.02	.01				
B-1203			1.4				{ }				1.1	2.9x10 <sup>-2</sup>	22.9	13.4		.02	.01				
<del>B-1260</del>			<del>1.5</del>				<del>{ }</del>				<del>1.1</del>	<del>3x10<sup>-2</sup></del>	<del>22.1</del>	<del>3.8</del>		<del>.01</del>	<del>.01</del>				<del>delete IJD 10/24/97</del>
B-1565			1.3				dirt				.025	4x10 <sup>-4</sup>	.35	.2		.01	.01				
B-1566			1.3				{ }				.020	4.4x10 <sup>-4</sup>	.37	.2		.02	.01				
B-1581			1.3				dirt/slag				.010	1.9x10 <sup>-4</sup>	.16	.1		.03	.01				
B-1587			1.6				{ }				-	-	-	<.1		.02	.01				
<del>B-1598</del>			<del>1.1</del>				<del>dirt/slag</del>				<del>.25</del>	<del>6.8x10<sup>-3</sup></del>	<del>6.7</del>	<del>3.2</del>		<del>.02</del>	<del>.01</del>				<del>delete IJD 10/24/97</del>
B-1179			1.6				dirt/debris				.4	1.1x10 <sup>-2</sup>	7.9	5.3		.02	.01				
											<del>1.1</del>	<del>1.1x10<sup>-2</sup></del>	<del>7.9</del>	<del>5.3</del>		<del>.02</del>	<del>.01</del>				<del>IJD 10/17/97</del>

420 20.8  
 480 23.4  
 IJD IJD  
 PAGE TOTALS

TOTAL ACTIVITY 1.8x10<sup>-1</sup> TOTAL SNM 82.9 IJD 10/24/97

Distribution of Copies (Please circle copy number) 2 Must accompany waste in transit

4 Must be approved by Envirocare (mail or fax) prior to shipment

5 Customer copy

[1] GEN. NA Westinghouse Electric  
 ADDRESS: Westinghouse Road  
 CITY/ST/ZIP Blairsville, PA  
 CONTACT P Irwin Dobrushin  
 PHONE: 412-374-6094

[2] BILL DISPOSAL CHARGES TO:  
 NAME: Westinghouse Electric  
 P.O./CONT. MB 38056  
 ADDRESS: P. O. Box 355  
 CITY/ST/ZIP Pittsburgh, PA  
 PHONE: 412-374-6094

AGENT/BRKR:  
 CONTACT:  
 ADDRESS:  
 CITY/ST/ZIP:  
 PHONE:  
 SIGN/DATE:

[4] CARRIER: Autumn Trans SHIP DATE: 10/21/97  
 CARRIER EPA # (if any):  
 ADDRESS: 518 Perkins Jones Rd.  
 CITY/ST/ZIP Warren, Ohio 44483  
 CONTACT: Mark Huggins  
 PHONE: 330-372-5002

MANIFEST DOCUMENT NUMBER  
 (HAZARDOUS WASTE ONLY):

TYPE OF CONTAINER	ntainer Volum Cu. Ft.	# of Packages	Cu. Ft. Per Container Type
Drums:			
Overpack:			
55:			
30:			
Boxes:			
1st Size:			
Size:			
3rd Size:			
Rail cars:			
Truck/Trailer:			
Dump:			
Trailer:			
Other:	30		
Other:			
Other:			
SHIPMENT TOTALS			

**ENVIROCARE OF UTAH, INC.**  
 46 WEST BROADWAY, SUITE 240  
 SALT LAKE CITY, UTAH 84101  
 PHONE: (801)532-1330  
 FAX: (801)537-7345

[7] PAGE 1 OF 2 RECORD #: 0674-04 - 6  
 USE ON ALL CONTINUATION PAGES)  
 RAIL CAR/TRAILER #: 52003/03  
 Consigned to: ENVIROCARE OF UTAH, INC., CLIVE DISPOSAL SITE  
 INTERSTATE 80, EXIT 49, WEST OF SALT LAKE, UTAH 8402

[5] TOTAL, EACH PROPER SHIPPING NAME & HAZARD CL (per 49 CFR 172.101)

# of Pkgs.	Weight (Tons)	DOT ID NUMBER
14	20.4	UN 2910

Radioactive material excepted package, limited quantity, 7, UN 2910, (fissile excepted)

**TERMS AND CONDITIONS**

A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material    is -- OR -- X is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1.

B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc.

C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license.

D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD, or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.

[6] SHIPMENT TOTALS

No. of Cont.	Activity in Millicuries				TOTAL SNM		
	H-3*	C-14*	Tc-99*	I-129*	Isotope	Grams	# of Cont.
14	0	0	0	0	U-233	0	0
					U-235	91.2	14
					Pu	0	0
					Total	91.2	14
Volume	420				PHYSICAL FORM		
Cu. Ft.					solid		
					CHEMICAL FORM		
					oxide		
				Total	2x10 <sup>-1</sup>		

\* Must show "0" if not present. List additional nuclides and activities in blank spaces provide

THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE REGULATIONS, AND ARE IN COMPLIANCE WITH ALL REQUIREMENTS APPLICABLE AT THE DEPARTMENT OF TRANSPORTATION AND THE REQUIREMENTS OF 10 CFR PART 61 AND PART 20.311 OR EQUIVALENT STATE REGULATIONS. THE MATERIALS HAVE BEEN EXAMINED, INCLUDING DIAGRAMS, AND ALL INFORMATION SUBMITTED IS TRUE, CORRECT AND COMPLETE.

Irwin J. Dobrushin Sr Ind Hygienist 10/21/97  
 Authorized Signature of Customer Title Date  
Irwin Dobrushin  
 Printed Name of Authorized Signature

**THIS AREA IS FOR ENVIROCARE OF UTAH, INC. USE ONLY**

CHECK ALL THAT APPLY TO THIS LOAD: DESCRIBE INADEQUACIES IN COMMENTS

COMMENTS:

Record Waste Description Inadequate  
 Contamination or Leakage Detected  
 Unexpected Exposure Rates Detected  
 Labels, Markings, etc. Inadequate  
 Container Integrity Inadequate  
 Other

SHIPMENT RECEIVED FOR DISPOSAL  
 SHIPMENT REJECTED FOR DISPOSAL

Daniel Silsen INSPECTOR  
 DATE: OCT 28 1997

EC INVOICE #: \_\_\_\_\_  
 INVOICE DATE: \_\_\_\_\_  
 EC CUSTOMER #: \_\_\_\_\_

DISTRIBUTION:  
 White, Yellow, Pink - Must accompany waste in t  
 Green - Must be mailed to & be approved by Envirocare of Utah prior to shipment, unless a copy has been sent by fax.

Gold - Customer Copy.

51208

Generator Name: Westinghouse  
 Agent/Broker: NA  
 Bates #: NA

Record #: 0674-04-06  
 Page 2 of 2

90715

Item #	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Cont. (MBq)	Total Activity per nuclide (per Cont.) (mcuries)	Radio-nuclide Conc. pCi/gram	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Fissile Class	D.O.T. Label (49 CFR 172.400)
																Surface	Metes	Office Use Only			
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]
B-1006	Bag	30	1.3	Solid	A	None	dirt/sod	oxide/NA	None	U-235	.56	1.5x10 <sup>-2</sup>	12.8	7.0	None	.03	.01		NA	NA	None
B-1170			1.5				dirt/debris				.17	4.5x10 <sup>-3</sup>	3.2	2.1		.03	.01				None
B-1180			1.5								.41	1.1x10 <sup>-2</sup>	7.9	5.1		.03	.01				
B-1181			1.5								.50	1.4x10 <sup>-2</sup>	10.1	6.4		.03	.01				
B-1182			1.5								1.0	2.7x10 <sup>-2</sup>	19.8	12.6		.03	.01				
B-1184			1.5								.70	1.9x10 <sup>-2</sup>	14.1	8.8		.03	.01				
B-1186			1.4								.50	1.3x10 <sup>-2</sup>	10.2	6.1		.03	.01				
B-1188			1.6								.68	1.8x10 <sup>-2</sup>	12.8	8.6		.03	.01				
B-1191			1.4								.82	2.2x10 <sup>-2</sup>	17.6	10.3		.02	.01				
B-1192			1.5								1.0	2.7x10 <sup>-2</sup>	19.4	12.7		.02	.01				
B-1194			1.6								.70	1.8x10 <sup>-2</sup>	12.5	8.3		.02	.01				
B-1515			1.1				dirt/stag				.06	1.7x10 <sup>-3</sup>	1.7	.80		.02	.01				
B-1588			1.4								.02	6.1x10 <sup>-4</sup>	.5	.30		.02	.01				
B-1610			1.6								.18	4.7x10 <sup>-3</sup>	3.1	2.1		.02	.01				
14		420	20.4	PAGE TOTALS							TOTAL ACTIVITY		2x10 <sup>-1</sup>	TOTAL SNM		91.2					

Distribution of Copies (Please circle copy number) 2 Must accompany waste in transit

4 Must be approved by Envirocare (mail or fax) prior to shipment

5 Customer copy



ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse  
 Agent/Broker: \_\_\_\_\_  
 Bates #: \_\_\_\_\_

Record #: 0674-04-07  
 Page 2 of 5

180727

Item #	Container Type	Volume (Cu. Ft.)	Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Cont. (MBq) (19a)	Total Activity per nuclide (per Cont.) (mcuries) (19b)	Radio-nuclide Conc. pCi/gram (20)	SNM grams (21)	Source Material (Kg) (22)	Radiation Levels (mR/hr) (uR/h)			Transport Index (26)	Fissile Class (27)	D.O.T. Label (49 CFR 172.400) (28)
																Surface (23)	Metres (24)	Office Use Only (25)			
B-316	drum	8.5	.30	Solid	A	None	dirt	oxide/NA	NA	U-235	.440	1.2x10 <sup>-2</sup>	42.6	5.5	None	.07	.01		NA	NA	None
B-1030			.22				dirt/sludge				.002	5x10 <sup>-5</sup>	.3	.02		.03	.01				
B-1031			.18								.008	2.1x10 <sup>-4</sup>	1.5	.10		.03	.01				
B-1032			.18								.008	2.1x10 <sup>-4</sup>	1.5	.10		.03	.01				
B-1033			.29								.004	1.2x10 <sup>-4</sup>	0.5	.06		.03	.01				
B-1087			.31				dirt				.01	2.9x10 <sup>-4</sup>	1.2	.14		.03	.01				
B-1088			.34								.11	3.4x10 <sup>-3</sup>	10.7	1.41		.03	.01				
B-1089			.28								.10	2.5x10 <sup>-3</sup>	10.5	1.2		.02	.01				
B-1090			.29								.10	2.8x10 <sup>-3</sup>	11.8	1.3		.02	.01				
B-1091			.29								.11	3x10 <sup>-3</sup>	12.7	1.4		.02	.01				
B-1092			.29								.02	6x10 <sup>-4</sup>	2.5	2.7		.02	.01				
B-1093			.30								.11	3.1x10 <sup>-3</sup>	12.4	1.5		.03	.01				
B-1094			.45								.16	4.2x10 <sup>-3</sup>	10.9	2.0		.04	.01				
B-1095			.39								.11	3.1x10 <sup>-3</sup>	9.1	1.4		.02	.01				
B-1096			.44								.01	3.2x10 <sup>-4</sup>	0.8	.15		.02	.01				
B-1097			.45								.18	4.9x10 <sup>-3</sup>	12.7	2.3		.04	.01				
B-1098			.47								.20	5.4x10 <sup>-3</sup>	13.4	2.5		.02	.01				
B-1099			.45								.02	4.6x10 <sup>-4</sup>	1.2	.21		.03	.01				
B-1100			.43								.11	3x10 <sup>-3</sup>	8.2	1.4		.03	.01				
B-1101			.38								.11	3.2x10 <sup>-3</sup>	10.1	1.5		.02	.01				
20		170	1.73	PAGE TOTALS				TOTAL ACTIVITY			5.5x10 <sup>-2</sup>		26.9	TOTAL SNM							

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ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse  
 Agent/Broker: \_\_\_\_\_  
 Bates #: \_\_\_\_\_

Record #: 0674-04-07  
 Page 3 of 5

190727

Item #	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Cont. (MBq)	Total Activity per nuclide (per Cont.) (mcuries)	Radio-nuclide Conc. pCi/gram	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Hazardous Waste Class	D.O.T. Label (49 CFR 172.400)				
																Surface	Metes	Office Use Only							
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]				
B-1102	Drum	8.5	.33	Solid	A	None	dirt	oxide/NA	NA	U-235	.12	3.3x10 <sup>-3</sup>	12.1	1.6	None	.03	.01		NA	NA	None				
B-1111	Drum		.32								.09	2.3x10 <sup>-3</sup>	8.5	1.1		.02	.01								
B-1112			.33								.03	9x10 <sup>-4</sup>	3.2	0.4		.03	.01								
B-1113			.32								.07	2x10 <sup>-3</sup>	7.6	0.9		.03	.01								
B-1114			.31								.09	2.6x10 <sup>-3</sup>	10.4	1.2		.02	.01								
B-1115			.27								.09	2.7x10 <sup>-3</sup>	12.2	1.3		.02	.01								
B-1116			.27								.09	2.4x10 <sup>-3</sup>	10.9	1.1		.03	.01								
B-1117			.24								.10	2.6x10 <sup>-3</sup>	13.0	1.2		.04	.01								
B-1118			.24								.12	3.2x10 <sup>-3</sup>	16.1	1.5		.03	.01								
B-1119			.24								.12	3.2x10 <sup>-3</sup>	16.0	1.5		.02	.01								
B-1120			.28								.11	3.1x10 <sup>-3</sup>	13.3	1.4		.03	.01								
B-1121			.31								.10	2.7x10 <sup>-3</sup>	10.4	1.3		.03	.01								
B-1122			.25								.07	1.8x10 <sup>-3</sup>	8.8	.8		.02	.01								
B-1127			.34								.11	3.1x10 <sup>-3</sup>	10.7	1.4		.03	.01								
B-1128			.36								.10	2.6x10 <sup>-3</sup>	8.5	1.2		.02	.01								
B-1129			.35								.10	2.7x10 <sup>-3</sup>	9.1	1.2		.03	.01								
B-1130			.33								.09	2.3x10 <sup>-3</sup>	8.3	1.1		.03	.01								
B-1131			.34								.09	2.4x10 <sup>-3</sup>	8.3	1.1		.02	.01								
B-1132			.33								.70	1.9x10 <sup>-2</sup>	69.1	8.8		.02	.01								
B-1133			.33								.34	9.1x10 <sup>-3</sup>	32.8	4.3		.02	.01								
20		170	61	PAGE TOTALS																	TOTAL ACTIVITY	7.4x10 <sup>-2</sup>	34.4	TOTAL SNM	

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4 Must be approved by Envirocare (mail or fax) prior to shipment

5 Customer copy



ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse  
 Agent/Broker: \_\_\_\_\_  
 Bates #: \_\_\_\_\_

Record #: 6674-04-07  
 Page 4 of 5

200622

Item #	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Cont. (MBq)	Total Activity per nuclide (per Cont.) (mcuries)	Radio-nuclide Conc. pCi/gram	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Hazardous Class	D.O.T. Label (49 CFR 172.400)
																Surface	Meter	Office Use Only			
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19a]	[19b]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]
B-1134	Drum	8.5	.32	Solid	A	None	dirt	oxide/NA	NA	U-235	.24	6.6x10 <sup>-3</sup>	24.2	3.1	None	.04	.01		NA	NA	None
B-1139			.33				dirt/debris				.15	3.9x10 <sup>-3</sup>	13.9	1.8		.03	.01				
B-1140			.28								.14	3.7x10 <sup>-3</sup>	15.9	1.8		.04	.01				
B-1286			.37								.09	2.3x10 <sup>-3</sup>	7.5	1.1		.02	.01				
B-1287			.42								.10	2.7x10 <sup>-3</sup>	7.5	1.3		.02	.01				
B-1288			.39								.09	2.5x10 <sup>-3</sup>	7.5	1.2		.02	.01				
B-1500			.31				base blast dust				.037	1x10 <sup>-3</sup>	4.0	.5		.01	.01				
B-1501			.38								.02	6.7x10 <sup>-4</sup>	2.1	.3		.01	.01				
B-1503			.35				slag				.15	4.1x10 <sup>-3</sup>	15.0	1.9		.01	.01				
B-1505			.34								.60	1.5x10 <sup>-2</sup>	51.6	6.9		.01	.01				
B-1531			.34				dirt				.02	6x10 <sup>-4</sup>	2.1	.30		.03	.01				
B-1532			.34								.01	1.8x10 <sup>-4</sup>	.6	.08		.02	.01				
B-1533			.34								.05	1.2x10 <sup>-3</sup>	4.0	.5		.03	.01				
B-1534			.34								.01	2.6x10 <sup>-4</sup>	.9	.12		.02	.01				
B-1535			.34								.03	8.2x10 <sup>-4</sup>	2.8	.8		.02	.01				
B-1537			.34								.02	5.1x10 <sup>-4</sup>	1.8	.24		.03	.01				
B-1538			.32								.05	1.4x10 <sup>-4</sup>	1.5	.06		.02	.01				
B-1540			.34								.05	1.4x10 <sup>-3</sup>	5.0	.7		.01	.01				
B-1543			.32								.003	8.5x10 <sup>-5</sup>	.3	.04		.04	.01				
B-1544			.34								.05	1.3x10 <sup>-4</sup>	.5	.06		.02	.01				
20		170	.685	PAGE TOTALS							TOTAL ACTIVITY		4.8x10 <sup>-2</sup>	22.8	TOTAL SNM						

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5 Customer copy

Generator Name: Westinghouse

Agent/Broker: \_\_\_\_\_

Bates #: \_\_\_\_\_

Record #: 0674-04-07  
 Page 5 of 5

210927

Item #	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Cont. (MBq)	Total Activity per nuclide (per Cont.) (mcuries)	Radio-nuclide Conc. pCi/gram	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Fissile Class	D.O.T. Label (49 CFR 172.400)
																Surface	Metes	Office Use Only			
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]
B 1545	Drum	8.5	.33	Solid	A	None	dirt	oxide/NA	None	U-235	.02	4.9x10 <sup>-4</sup>	1.8	.23	None	.02	.01		NA	NA	NONE
B 1546	}	}	.32	}	}	}	}	}	}	}	.02	5.4x10 <sup>-4</sup>	2.0	.25		.03	.01				
B 1555	}	}	.35	}	}	}	}	}	}	}	.006	1.7x10 <sup>-4</sup>	.6	.10		.03	.01				
B 1600	}	}	.10	}	}	}	trash	}	}	}	-	-	-	<.1		.03	.01				
4		34	1.1	PAGE TOTALS							TOTAL ACTIVITY		1.2x10 <sup>-3</sup>		TOTAL SNM		.58				

Distribution of Copies (Please circle copy number)  2 Must accompany waste in transit

4 Must be approved by Envirocare (mail or fax) prior to shipment

5 Customer copy

# ADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD (#E-100)

[1] GEN. NA Westinghouse Electric  
 ADDRESS: Westinghouse Road  
 CITY/ST/ZIP Blairsville, PA  
 CONTACT P. Erwin Dobrushin  
 PHONE: 412-374-6094

**ENVIROCARE OF UTAH, INC.**  
 46 WEST BROADWAY, SUITE 240  
 SALT LAKE CITY, UTAH 84101  
 PHONE: (801)532-1330  
 FAX: (801)537-7345

[7] PAGE 1 OF 2 RECORD #: 0674-04 - 08  
 USE ON ALL CONTINUATION PAGES)  
 RAIL CAR/TRAILER #: 10601 / 10602 A  
 Consigned to: ENVIROCARE OF UTAH, INC., CLIVE DISPOSAL SITE  
 INTERSTATE 80, EXIT 49, WEST OF SALT LAKE, UTAH 8402

6 of 15

[2] BILL DISPOSAL CHARGES TO:  
 NAME: Westinghouse Electric  
 P.O./CONT. MB 38056  
 ADDRESS: P. O. Box 355  
 CITY/ST/ZIP Pittsburgh, PA  
 PHONE: 412-374-6094

[3]  
 AGENT/BRKR:  
 CONTACT:  
 ADDRESS:  
 CITY/ST/ZIP:  
 PHONE:  
 SIGN/DATE:

[4]  
 CARRIER: Autumn Trans SHIP DATE: 10/31/97  
 CARRIER EPA # (if any):  
 ADDRESS: 518 Perkins Jones Rd.  
 CITY/ST/ZIP Warren, Ohio 44483  
 CONTACT: Mark Huggins  
 PHONE: 330-372-5002

MANIFEST DOCUMENT NUMBER  
 (HAZARDOUS WASTE ONLY):

TYPE OF CONTAINER	ntainer Volume Cu. Ft.	# of Packages	Cu. Ft. Per Container Type
Drums:			
Overpack:			
55:			
30:			
Boxes:			
1st Size:			
2nd Size:			
3rd Size:			
Rail cars:			
Truck/Trailer:			
Dump:			
Trailer:			
Other:	30	16	480
Other:			
Other:			
<b>SHIPMENT TOTALS</b>		<b>16</b>	<b>480</b>

[5] TOTAL, EACH	PROPER SHIPPING NAME & HAZARD CL	DOT ID
# of Pkgs. (Tons)	(per 49 CFR 172.101)	NUMBER
16	21.8 Radioactive material excepted package, limited quantity, 7, UN 2910, (fissile excepted)	UN 2910

**TERMS AND CONDITIONS**

A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material is -- OR --  is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1.

B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc.

C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license.

D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD, or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.

[6] SHIPMENT TOTALS						TOTAL SNM		
No. of Cont.	Activity in Millicuries					Isotope	Grams	# of Cont.
	H-3*	C-14*	Tc-99*	I-129*	U-235			
16	0	0	0	0	0	U-233	0	0
						U-235	78.5	16
						Pu	0	0
						<b>Total</b>	<b>78.5</b>	<b>16</b>
Volume						PHYSICAL FORM		
						solid		
Cu. Ft.						CHEMICAL FORM		
480						oxide		
						<b>Total</b>	<b>1.7x10<sup>7</sup></b>	

\* Must show "0" if not present. List additional nuclides and activities in blank spaces provide

THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE REGULATIONS, AND ARE IN COMPLIANCE WITH ALL REQUIREMENTS APPLICABLE AT THE DEPARTMENT OF TRANSPORTATION AND THE REQUIREMENTS OF 10 CFR PART 61 AND PART 20.311 OR EQUIVALENT STATE REGULATIONS. CERTIFIED THAT ALL ITEMS ON THIS RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD HAVE BEEN EXAMINED, INCLUDING DIAGRAMS, AND ALL INFORMATION SUBMITTED IS TRUE, CORRECT AND COMPLETE.

*Erwin Dobrushin Sr.*  
 Authorized Signature of Customer Title Date 10/28/97  
*Erwin Dobrushin*  
 Printed Name of Authorized Signature

**THIS AREA IS FOR ENVIROCARE OF UTAH, INC. USE ONLY**

CHECK ALL THAT APPLY TO THIS LOAD: DESCRIBE INADEQUACIES IN COMMENTS		EC INVOICE #:
COMMENTS:		INVOICE DATE:
<input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other		EC CUSTOMER #:
<input checked="" type="checkbox"/> No Violations Detected on this Shipment		DISTRIBUTION:
SHIPMENT RECEIVED FOR DISPOSAL		White, Yellow, Pink - Must accompany waste in t
SHIPMENT REJECTED FOR DISPOSAL		Green - Must be mailed to & be approved by Envirocare of Utah prior to shipment, unless a copy has been sent by fax.
<i>David Selten</i>	NOV 04 1997	Gold - Customer Copy.
INSPECTOR	DATE	

# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse  
 Agent/Broker:                       
 Bates #:                     

Record #: 0674-04-08  
 Page 2 of 2

7 pages of 15

Item #	Container Type	Container Volume (Cu. Ft.)	Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Cont. (MBq)	Total Activity per nuclide (per Cont.) (mcuries)	Radio-nuclide Conc. (pCi/gram)	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Hazardous Waste Class	D.O.T. Label (49 CFR 172.400)
																Surface	Meters	Office Use Only			
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]
B-1141	bags	30	1.2	Solid	A	None	dirt/debris	oxide/none	None	U-235	.52	1.4x10 <sup>-2</sup>	13.2	6.6	~0	.04	.01		NA	NA	None
B-1144			1.6								.39	1.1x10 <sup>-2</sup>	7.3	4.9		.04	.01				
B-1200			1.4								1.0	2.8x10 <sup>-2</sup>	21.7	13.2		.02	.01				
B-1218			1.5								.5	1.5x10 <sup>-2</sup>	10.6	6.8		.01	.01				
B-1238			1.7								.7	1.8x10 <sup>-2</sup>	11.8	8.4		.01	.01				
B-1246			1.7								.7	1.8x10 <sup>-2</sup>	12.1	8.5		.01	.01				
B-1250			1.6								.6	1.6x10 <sup>-2</sup>	10.8	7.6		.01	.01				
B-1253			1.5								.5	1.4x10 <sup>-2</sup>	10.2	6.4		.01	.01				
B-1258			1.4								.4	1.1x10 <sup>-2</sup>	8.7	5.2		.01	.01				
B-1260			1.5								.3	3x10 <sup>-2</sup>	6.0	3.8		.01	.01				
B-1570			1.4				dirt				.03	9.3x10 <sup>-4</sup>	.8	.4		.02	.01				
B-1577			1.2								.07	1.8x10 <sup>-4</sup>	.16	.09		.03	.01				
B-1595			1.2				dirt/slag				.01	3x10 <sup>-4</sup>	.30	.14		.02	.01				
B-1597			.9								.20	5.3x10 <sup>-3</sup>	6.6	2.5		.02	.01				
B-1598			1.1								.30	6.8x10 <sup>-3</sup>	6.6	3.2		.02	.01				
B-1615			1.0				dirt				.06	1.6x10 <sup>-3</sup>	1.9	.80		.01	.01				
16		480	21.8	PAGE TOTALS							TOTAL ACTIVITY		1.7x10 <sup>-1</sup>	78.5	TOTAL SNM						

# ADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD (#E-100)

[1] GEN. NA Westinghouse Electric  
 ADDRESS: Westinghouse Road  
 CITY/ST/ZIP Blairsville, PA  
 CONTACT Irwin Dobrushin  
 PHONE: 412-374-6094

**ENVIROCARE OF UTAH, INC.**  
**46 WEST BROADWAY, SUITE 240**  
**SALT LAKE CITY, UTAH 84101**  
 PHONE: (801)532-1330  
 FAX: (801)537-7345

[7] PAGE 1 OF 2 RECORD #: 0674-04 - 09  
 USE ON ALL CONTINUATION PAGES)  
 RAIL CAR/TRAILER #: 40 202 / 506  
 Consigned to: ENVIROCARE OF UTAH, INC., CLIVE DISPOSAL SITE  
 INTERSTATE 80, EXIT 49, WEST OF SALT LAKE, UTAH 8402

[2] BILL DISPOSAL CHARGES TO:  
 NAME: Westinghouse Electric  
 P.O./CONT. MB 38056  
 ADDRESS: P. O. Box 355  
 CITY/ST/ZIP Pittsburgh, PA  
 PHONE: 412-374-6094

[3]  
 AGENT/BRKR:  
 CONTACT:  
 ADDRESS:  
 CITY/ST/ZIP:  
 PHONE:  
 SIGN/DATE:

[4]  
 CARRIER: Autumn Trans SHIP DATE: 10/31/97  
 CARRIER EPA # (if any):  
 ADDRESS: 518 Perkins Jones Rd.  
 CITY/ST/ZIP Warren, Ohio 44483  
 CONTACT: Mark Huggins  
 PHONE: 330-372-5002

MANIFEST DOCUMENT NUMBER  
 (HAZARDOUS WASTE ONLY):

[5] TOTAL, EACH PROPER SHIPPING NAME & HAZARD CL		DOT
# of	Weight	ID
Pkgs.	(Tons)	NUMBER
14	20	UN 2810
Radioactive material excepted package, limited quantity, 7, UN 2810, (fissile excepted)		

**TERMS AND CONDITIONS**

A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material is - OR - X is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1.

B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc.

C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license.

D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD, or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.

[6] SHIPMENT TOTALS						TOTAL SNM		
No. of Cont.	Activity in Millicuries					Isotope	Grams	# of Cont.
		H-3*	0					
14	C-14*	0				U-233	0	0
	Tc-99*	0				U-235	68.9	14
Volume	I-129*	0				Pu	0	0
	Cu. Ft.	U-235	6.5 x 10 <sup>-1</sup>			Total	68.9	14
420						PHYSICAL FORM		
						solid		
						CHEMICAL FORM		
						oxide		
					Total		1.5 x 10 <sup>5</sup>	

\* Must show "0" if not present. List additional nuclides and activities in blank spaces provide

THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE REGULATIONS, AND ARE IN COMPLIANCE WITH ALL REQUIREMENTS APPLICABLE AT THE DEPARTMENT OF TRANSPORTATION AND THE REQUIREMENTS OF 10 CFR PART 61 AND PART 20.311 OR EQUIVALENT STATE REGULATIONS. CERTIFIED THAT ALL ITEMS ON THIS RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD HAVE BEEN EXAMINED, INCLUDING DIAGRAMS, AND ALL INFORMATION SUBMITTED IS TRUE, CORRECT AND COMPLETE.

Irwin Dobrushin Sr. Ind Hyg 10/28/97  
 Authorized Signature of Customer Title Date  
Irwin Dobrushin  
 Printed Name of Authorized Signature

TYPE OF CONTAINER	ntainer Volume Cu. Ft.	# of Packages	Cu. Ft. Per Container Type
Drums:			
Overpack:			
55:			
30:			
Boxes:			
1st Size:			
2nd Size:			
3rd Size:			
Rail cars:			
Truck/Trailer:			
Dump:			
Trailer:			
Other:	30	14	420
Other:			
Other:			
SHIPMENT TOTALS		14	420

**THIS AREA IS FOR ENVIROCARE OF UTAH, INC. USE ONLY**

CHECK ALL THAT APPLY TO THIS LOAD: DESCRIBE INADEQUACIES IN COMMENTS		EC INVOICE #:
COMMENTS: <input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input checked="" type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Shipment		INVOICE DATE:
		EC CUSTOMER #:
SHIPMENT RECEIVED FOR DISPOSAL		DISTRIBUTION:
SHIPMENT REJECTED FOR DISPOSAL		White, Yellow, Pink - Must accompany waste in t
INSPECTOR: <u>Daniel Silsen</u> DATE: <u>NOV 4 1997</u>		Green - Must be mailed to & be approved by Envirocare of Utah prior to shipment, unless a copy has been sent by fax.
		Gold - Customer Copy.

51 10/28/97

# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse  
 Agent/Broker:                       
 Bates #:                     

Record #: 0674-04-09  
 Page 2 of 2

3/26/15

Item #	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity (MBq)	Total Activity per nuclide (per Cont.) (mcuries)	Radio-nuclide Conc. (pCi/gram)	SNM (grams)	Source material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Hazardous Class	D.O.T. Label (49 CFR 172.400)
																Surface	Metres	Office Use Only			
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]
B 1145	bags	30	1.6	Solid	A	None	dirt/debris	oxide/none	None	U-235	.9	2.4x10 <sup>-2</sup>	16.8	11.1	0.0	.04	.01		NA	NA	NONE
B 1216			1.6								.8	2.0x10 <sup>-2</sup>	14.1	9.5		.03	.01				
B 1232			1.5								.6	1.6x10 <sup>-2</sup>	11.5	7.3		.01	.01				
B 1233			1.6								.6	1.5x10 <sup>-2</sup>	10.4	7.2		.01	.01				
B 1234			1.5								.5	1.4x10 <sup>-2</sup>	10.9	6.7		.01	.01				
B 1243			1.7								.7	2.1x10 <sup>-2</sup>	13.5	9.8		.02	.01				
B 1254			1.6								.5	1.4x10 <sup>-2</sup>	10.1	6.6		.01	.01				
B 1262			1.5								.3	7.4x10 <sup>-3</sup>	5.5	3.5		.01	.01				
B 1263			1.5								.3	8.3x10 <sup>-3</sup>	6.1	3.9		.01	.01				
B 1592			1.3				dirt/slag				.02	4.7x10 <sup>-4</sup>	.4	0.2		.02	.01				
B 1593			1.3								.02	5.8x10 <sup>-4</sup>	.5	0.3		.03	.01				
B 1594			1.3								.01	2.8x10 <sup>-4</sup>	.2	0.1		.03	.01				
B 1611			1.2								.02	5.5x10 <sup>-3</sup>	5.2	2.6		.02	.02				
B 1596			.9								.006	1.7x10 <sup>-4</sup>	0.2	.10		.03	.01				
14		420	20	PAGE TOTALS							TOTAL ACTIVITY		1.5x10 <sup>-1</sup>	68.9	TOTAL SNM						

# ADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD (#E-100)

[1] GEN. NA Westinghouse Electric  
 ADDRESS: Westinghouse Road  
 CITY/ST/ZIP Blairsville, PA  
 CONTACT P Erwin Dobrushin  
 PHONE: 412-374-6094

**ENVIROCARE OF UTAH, INC.**  
 46 WEST BROADWAY, SUITE 240  
 SALT LAKE CITY, UTAH 84101  
 PHONE: (801)532-1330  
 FAX: (801)537-7345

[7] PAGE 1 OF 2 RECORD #: 0674-04 -10  
 USE ON ALL CONTINUATION PAGES)  
 RAIL CAR/TRAILER #: 52003/03  
 Consigned to: ENVIROCARE OF UTAH, INC., CLIVE DISPOSAL SITE  
 INTERSTATE 80, EXIT 49, WEST OF SALT LAKE, UTAH 8402

[2] BILL DISPOSAL CHARGES TO:  
 NAME: Westinghouse Electric  
 P.O./CONT. MB 38056  
 ADDRESS: P. O. Box 355  
 CITY/ST/ZIP Pittsburgh, PA  
 PHONE: 412-374-6094

[5] TOTAL, EACH	PROPER SHIPPING NAME & HAZARD CL	DOT
# of	Weight	ID
Pkgs.	(Tons)	NUMBER
14	22	UN 2910
Radioactive material excepted package, limited quantity, 7, UN 2910, (fissile excepted)		

[6] SHIPMENT TOTALS						TOTAL SNM		
No. of	Activity in Millicuries					Isotope	Grams	# of Cont.
	Cont.	H-3*	C-14*	Tc-99*	I-129*			
14		0	0	0	0	U-233	0	0
		0				U-235	102.5	14
		0				Pu	0	0
		0				Total	102.5	14
Volume	420					PHYSICAL FORM		
						solid		
Cu. Ft.	420	U-235	2.8710	-1		CHEMICAL FORM		
						oxide		
					Total	2.8710		

[3] AGENT/BRKR:  
 CONTACT:  
 ADDRESS:  
 CITY/ST/ZIP:  
 PHONE:  
 SIGN/DATE:

**TERMS AND CONDITIONS**  
 A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material is -- OR --  is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1.  
 B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc.

[4] CARRIER: Autumn TransSHIP DATE: 10/31/97  
 CARRIER EPA # (if any):  
 ADDRESS: 518 Perkins Jones Rd.  
 CITY/ST/ZIP Warren, Ohio 44483  
 CONTACT: Mark Huggins  
 PHONE: 330-372-5002

C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license.

MANIFEST DOCUMENT NUMBER  
 (HAZARDOUS WASTE ONLY):

D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD, or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.

\* Must show "0" if not present. List additional nuclides and activities in blank spaces provide

THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE REGULATIONS, AND ARE IN COMPLIANCE WITH ALL REQUIREMENTS APPLICABLE AT THE DE AND THE REQUIREMENTS OF 10 CFR PART 61 AND PART 20.311 OR EQUIVALENT STATE REGULATIONS. CERTIFIED THAT ALL ITEMS ON THIS RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD HAVE BEEN EXAMINED, INCLUDING DIAGRAMS, AND ALL INFORMATION SUBMITTED IS TRUE, CORRECT

*Erwin Dobrushin Sr Ind Agg 10/28/97*  
 Authorized Signature of Customer Title Date  
*Erwin Dobrushin*  
 Printed Name of Authorized Signature

TYPE OF CONTAINER	Container Volume Cu. Ft.	# of Packages	Cu. Ft. Per Container Type
Drums:			
Overpack:			
55:			
30:			
Boxes:			
1st Size:			
2nd Size:			
3rd Size:			
Rail cars:			
Truck/Trailer:			
Dump:			
Trailer:			
Other:	30	14	420
Other:			
Other:			
SHIPMENT TOTALS		14	420

**THIS AREA IS FOR ENVIROCARE OF UTAH, INC. USE ONLY**

CHECK ALL THAT APPLY TO THIS LOAD: DESCRIBE INADEQUACIES IN COMMENTS		EC INVOICE #:
COMMENTS:		INVOICE DATE:
<input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other		EC CUSTOMER #:
<input checked="" type="checkbox"/> No Violations Detected on this Shipment		DISTRIBUTION:
SHIPMENT RECEIVED FOR DISPOSAL SHIPMENT RECEIVED FOR DISPOSAL		White, Yellow, Pink - Must accompany waste in t
INSPECTOR <i>David Silsen</i> DATE NOV 04 1997		Green - Must be mailed to & be approved by Env of Utah prior to shipment, unless a copy has been sent by fax.
		Gold - Customer Copy.

51 200

# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse  
 Agent/Broker:                       
 Bates #:                     

Record #: 0674-04-010  
 Page 2 of 2

51  
 10/15

Item #	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Cont. (MBq)	Total Activity per nuclide (per Cont.) (mcuries)	Radio-nuclide Conc. pCi/gram	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Hazard Class	D.O.T. Label (49 CFR 172.400)
																Surface	Met	Office Use Only			
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]
1147	B	30	1.7	Solid	A	None	dirt/debris	oxide/none	None	U-235	.4	1.1x10 <sup>-2</sup>	7.0	4.9	0.0	.05	.01		NA	NA	None
1148	B		1.5								.28	6.2x10 <sup>-3</sup>	5.0	2.9		.04	.01				
1221	B		1.5								.6	1.6x10 <sup>-2</sup>	11.8	7.5		.04	.01				
1222	B		1.5								.6	1.6x10 <sup>-2</sup>	12.2	7.6		.02	.01				
1229	B		1.6								.7	2x10 <sup>-2</sup>	13.4	9.1		.02	.01				
1230	B		1.6								.6	1.7x10 <sup>-2</sup>	11.5	7.8		.01	.01				
1231	B		1.6								.5	1.4x10 <sup>-2</sup>	9.7	6.5		.01	.01				
1235	B		1.5								.6	1.6x10 <sup>-2</sup>	11.3	7.4		.01	.01				
1245	B		1.5								.5	1.4x10 <sup>-2</sup>	10.2	6.6		.01	.01				
1249	B		1.7								.8	2.1x10 <sup>-2</sup>	14.0	10.0		.02	.01				
1255	B		1.6								.6	1.6x10 <sup>-2</sup>	10.9	7.5		.01	.01				
1259	B		1.6								.8	2.3x10 <sup>-2</sup>	15.1	10.5		.02	.02				
1259	B		1.6								.7	1.9x10 <sup>-2</sup>	13.2	8.9		.01	.01				
1259	B		1.6								.4	1.1x10 <sup>-2</sup>	7.9	5.3							
14		420	22	PAGE TOTALS							TOTAL ACTIVITY		2.8x10 <sup>-1</sup>		1625	TOTAL SNM					



# ADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD (#E-100)

[1] GEN. NA Westinghouse Electric  
 ADDRESS: Westinghouse Road  
 CITY/ST/ZIP Blairsville, PA  
 CONTACT P Erwin Dobrushin  
 PHONE: 412-374-6094

**ENVIROCARE OF UTAH, INC.**  
 46 WEST BROADWAY, SUITE 240  
 SALT LAKE CITY, UTAH 84101  
 PHONE: (801)532-1330  
 FAX: (801)537-7345

[7] PAGE 1 OF 2 RECORD #: 0674-04-11  
 USE ON ALL CONTINUATION PAGES)  
 RAIL CAR/TRAILER #: 52003/03  
 Consigned to: ENVIROCARE OF UTAH, INC., CLIVE DISPOSAL SITE  
 INTERSTATE 80, EXIT 49, WEST OF SALT LAKE, UTAH 8402

[2] BILL DISPOSAL CHARGES TO:  
 NAME: Westinghouse Electric  
 P.O./CONT. MB 38056  
 ADDRESS: P. O. Box 355  
 CITY/ST/ZIP Pittsburgh, PA  
 PHONE: 412-374-6094

[5] TOTAL, EACH	PROPER SHIPPING NAME & HAZARD CL	DOT ID
# of Pkgs.	Weight (Tons)	(per 49 CFR 172.101)
14	21.4	Radioactive material, low specific activity, n.o.s
		7, UN2812

[8] SHIPMENT TOTALS						TOTAL SNM		
No. of Cont.	Activity in Millicuries					Isotope	Grams	# of Cont.
		H-3*	0					
14	C-14*	0				U-235	130.5	14
	Tc-99*	0				Pu	0	0
	I-129*	0				Total	130.5	14
Volume	U-235	2.8x10 <sup>-1</sup>				PHYSICAL FORM		
Cu. Ft.						solid		
420						CHEMICAL FORM		
						oxide		
					Total	2.8x10 <sup>-1</sup>		

[3] AGENT/BRKR:  
 CONTACT:  
 ADDRESS:  
 CITY/ST/ZIP:  
 PHONE:  
 SIGN/DATE:

**TERMS AND CONDITIONS**

A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material is -- OR -- X is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1.

B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc.

C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license.

D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD, or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.

\* Must show "0" if not present. List additional nuclides and activities in blank spaces provide

THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE REGULATIONS, AND ARE IN COMPLIANCE WITH ALL REQUIREMENTS APPLICABLE AT THE DEPARTMENT OF ENERGY AND THE REQUIREMENTS OF 10 CFR PART 61 AND PART 20.311 OR EQUIVALENT STATE REGULATIONS. I HEREBY CERTIFY THAT ALL ITEMS ON THIS RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD HAVE BEEN EXAMINED, INCLUDING DIAGRAMS, AND ALL INFORMATION SUBMITTED IS TRUE, CORRECT AND COMPLETE.

[4] CARRIER: Autumn TransSHIP DATE: 11/17/97  
 CARRIER EPA # (if any):  
 ADDRESS: 518 Perkins Jones Rd.  
 CITY/ST/ZIP Warren, Ohio 44483  
 CONTACT: Mark Huggins  
 PHONE: 330-372-5002

MANIFEST DOCUMENT NUMBER (HAZARDOUS WASTE ONLY):

*Erwin Dobrushin Sr. - Irwin Huggins* 11/14/97  
 Authorized Signature of Customer Title Date  
*Erwin Dobrushin*  
 Printed Name of Authorized Signature

TYPE OF CONTAINER	Container Volume Cu. Ft.	# of Packages	Cu. Ft. Per Container Type
Drums:			
Overpack:			
55:			
30:			
Boxes:			
1st Size:			
2nd Size:			
3rd Size:			
Rail cars:			
Truck/Trailer:			
Dump:			
Trailer:			
Other:	30	14	420
Other:			
Other:			
SHIPMENT TOTALS		14	420

**THIS AREA IS FOR ENVIROCARE OF UTAH, INC. USE ONLY**

CHECK ALL THAT APPLY TO THIS LOAD: DESCRIBE INADEQUACIES IN COMMENTS		EC INVOICE #:
<input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other		INVOICE DATE:
<input checked="" type="checkbox"/> No Violations Detected on this Shipment		EC CUSTOMER #:
COMMENTS: SHIPMENT RECEIVED FOR DISPOSAL SHIPMENT REJECTED FOR DISPOSAL		DISTRIBUTION: White, Yellow, Pink - Must accompany waste in transport Green - Must be mailed to & be approved by Envirocare of Utah prior to shipment, unless a copy has been sent by fax.
INSPECTOR: <i>Daniel Silsen</i>		DATE: NOV 29 1997
		Gold - Customer Copy.

805 of 805

# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse Electric  
 Agent/Broker: NA  
 Bates #: NA

Record #: 0674-04- 11  
 Page 2 of 2

Item # [8]	Container Type [9]	Volume (Cu. Ft.) [10]	Waste Net Weight (Tons) [11]	Physical Form [12]	Waste Class (A,B,C) [13]	Solidification Agent (if any) [14]	Waste Description [15]	Chemical Form/Chelating Agent [16]	Chelating Agent Conc. [17]	Radio-nuclides Present [18]	Total Activity per Cont. (MBq) [19a]	Total Activity per nuclide (mcuries) [19b]	Radio-nuclide Conc. pCi/gram [20]	SNM grams [21]	Source Material (Kg) [22]	Radiation Levels (mR/hr) (uR/h) [23-25]			Transport Index [26]	Hazardous Waste Class [27]	D.O.T. Label (49 CFR 172.400) [28]
																Surface	Met	Office Use Only			
B 1240	BAG	30	1.6	solid	A	None	dirt/debris	Oxide/none	none	U-235	.55	1.5x10 <sup>-2</sup>	10.2	6.9	+0-	.01	.01		NA	Radioactive LSA	
B 1225			1.6								.52	1.4x10 <sup>-2</sup>	10.0	6.6		.01	.01				
B 1214			1.5								.42	1.1x10 <sup>-2</sup>	8.4	5.3		.02	.01				
B 1208			1.4								.36	9.6x10 <sup>-3</sup>	7.4	4.5		.03	.01				
B 1196			1.5								.60	1.6x10 <sup>-2</sup>	11.7	7.6		.02	.01				
B 1188			1.5								.94	2.6x10 <sup>-2</sup>	19.0	12.0		.03	.01				
B 1172			1.7								.66	1.8x10 <sup>-2</sup>	11.7	8.4		.02	.01				
B 1168			1.5								1.0	2.7x10 <sup>-2</sup>	19.4	12.6		.04	.01				
B 1159			1.5								.52	1.4x10 <sup>-2</sup>	10.0	6.6		.03	.01				
B 1151			1.5								.54	1.5x10 <sup>-2</sup>	11.0	6.8		.05	.01				
B 1005			1.3				dirt/sod				1.8	4.9x10 <sup>-2</sup>	43.1	23.0		.05	.01				
B 1125			1.6				dirt/debris				.65	1.8x10 <sup>-2</sup>	12.2	8.3		.02	.01				
B 1211			1.6								.80	2.2x10 <sup>-2</sup>	15.1	10.1		.02	.01				
B 1190			1.6								.93	2.5x10 <sup>-2</sup>	17.3	11.8		.02	.01				
14		420	21.4	PAGE TOTALS							TOTAL ACTIVITY		2.8x10 <sup>1</sup>	130.5	TOTAL SNM						

907

Distribution of Copies (Please circle copy number) 2 Must accompany waste in transit

4 Must be approved by Envirocare (mail or fax) prior to shipment

5 Customer copy

# ADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD (#E-100)

[1] GEN. NA Westinghouse Electric  
 ADDRESS: Westinghouse Road  
 CITY/ST/ZIP Blairsville, PA  
 CONTACT PErwin Dobrushin  
 PHONE: 412-374-6094

**ENVIROCARE OF UTAH, INC.**  
**46 WEST BROADWAY, SUITE 240**  
**SALT LAKE CITY, UTAH 84101**  
 PHONE: (801)532-1330  
 FAX: (801)537-7345

[7] PAGE 1 OF 2 RECORD #: 0674-04 - 12  
 USE ON ALL CONTINUATION PAGES)  
 RAIL CAR/TRAILER #: 40207/507  
 Consigned to: ENVIROCARE OF UTAH, INC., CLIVE DISPOSAL SITE  
 INTERSTATE 80, EXIT 49, WEST OF SALT LAKE, UTAH 8402

[2] BILL DISPOSAL CHARGES TO:  
 NAME: Westinghouse Electric  
 P.O./CONT. MB 38056  
 ADDRESS: P. O. Box 355  
 CITY/ST/ZIP Pittsburgh, PA  
 PHONE: 412-374-6094

[5] TOTAL, EACH		PROPER SHIPPING NAME & HAZARD CL	DOT
# of	Weight	(per 49 CFR 172.101)	ID
Pkgs.	(Tons)		NUMBER
12	16.5	Radioactive material, low specific activity, n.o.s.	UN 2912
		7, UN2812	

[6] SHIPMENT TOTALS						TOTAL SNM		
No. of Cont.	Activity in Millicuries					Isotope	Grams	# of Cont.
	12	H-3*	0				U-233	0
C-14*		0				U-235	190	12
Tc-99*		0				Pu	0	0
I-129*		0				<b>Total</b>	<b>190</b>	<b>12</b>
Volume						<b>PHYSICAL FORM</b>		
Cu. Ft.								
360	U-235	4.1x10 <sup>1</sup>				<b>CHEMICAL FORM</b>		
	<b>Total</b>					oxide		

[3] AGENT/BRKR:  
 CONTACT:  
 ADDRESS:  
 CITY/ST/ZIP:  
 PHONE:  
 SIGN/DATE:

**TERMS AND CONDITIONS**

A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material is OR is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1.

B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc.

C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license.

D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD, or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.

\* Must show "0" if not present. List additional nuclides and activities in blank spaces provide

THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE REGULATIONS, AND ARE IN COMPLIANCE WITH ALL REQUIREMENTS APPLICABLE AT THE DEPARTMENT OF TRANSPORTATION AND THE REQUIREMENTS OF 10 CFR PART 61 AND PART 20.311 OR EQUIVALENT STATE REGULATIONS. I CERTIFY THAT ALL ITEMS ON THIS RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD HAVE BEEN EXAMINED, INCLUDING DIAGRAMS, AND ALL INFORMATION SUBMITTED IS TRUE, CORRECT AND COMPLETE.

*Erwin Dobrushin*      *Si-Ind Hgg*      11/14/97  
 Authorized Signature of Customer      Title      Date  
*Erwin Dobrushin*  
 Printed Name of Authorized Signature

[4] CARRIER: Autumn TransSHIP DATE: 11/18/97  
 CARRIER EPA # (if any):  
 ADDRESS: 518 Perkins Jones Rd.  
 CITY/ST/ZIP Warren, Ohio 44483  
 CONTACT: Mark Huggins  
 PHONE: 330-372-5002

MANIFEST DOCUMENT NUMBER  
 (HAZARDOUS WASTE ONLY):

TYPE OF CONTAINER	ntainer Volume Cu. Ft.	# of Packages	Cu. Ft. Per Container Type
Drums:			
Overpack:			
55:			
30:			
Boxes:			
1st Size:			
2nd Size:			
3rd Size:			
Rail cars:			
Truck/Trailer:			
Dump:			
Trailer:			
Other:	30	12	360
Other:			
Other:			
<b>SHIPMENT TOTALS</b>		<b>12</b>	<b>360</b>

**THIS AREA IS FOR ENVIROCARE OF UTAH, INC. USE ONLY**

CHECK ALL THAT APPLY TO THIS LOAD: DESCRIBE INADEQUACIES IN COMMENTS	EC INVOICE #:
<input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Shipment	INVOICE DATE: _____ EC CUSTOMER #: _____  <b>DISTRIBUTION:</b> White, Yellow, Pink - Must accompany waste in t Green - Must be mailed to & be approved by Envirocare of Utah prior to shipment, unless a copy has been sent by fax.
SHIPMENT RECEIVED FOR DISPOSAL <input checked="" type="checkbox"/> SHIPMENT REJECTED FOR DISPOSAL <input type="checkbox"/> <i>David Silsen</i> INSPECTOR	NOV 21 1997 DATE Gold - Customer Copy.

8 of 15

# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse Electric  
 Agent/Broker: NA  
 Bates #: NA

Record #: 0674-04-12  
 Page 2 of 2

Item #	Container Type	Container Volume (Cu. Ft.)	Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Cont. (MBq)	Total Activity per nuclide (per Cont.) (mcuries)	Radio-nuclide Conc. pCi/gram	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Hazardous Class	D.O.T. Label (49 CFR 172.400)
																Surface	Meters	Office Use Only			
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19a]	[19b]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]
B 1589	BAG	30	1.3	solid	A	None	dirt/slag	Oxide/none	none	U-235	.01	1.9x10 <sup>-4</sup>	.16	.09	0-	.02	.01		.1		Radioactive LSA
B 1579			1.4								.01	1.8x10 <sup>-4</sup>	.14	.08		.02	.01				
B 1518			.93								.03	8.4x10 <sup>-3</sup>	1.0	.39		.02	.01				
B 1176			1.6								.06	1.6x10 <sup>-3</sup>	1.1	.74		.03	.01				
B 1584			1.2								.004	9.8x10 <sup>-4</sup>	.09	.05		.01	.01				
B 1574			1.4								.005	1.5x10 <sup>-4</sup>	.12	.07		.02	.01				
B 1611			1.2								13.7	3.7x10 <sup>-1</sup>	344	173		.02	.01				
B 1585			1.4								.008	2.3x10 <sup>-4</sup>	.19	1.0		.02	.01				
B 1224			1.5								.05	1.2x10 <sup>-2</sup>	8.7	5.7		.01	.01				
B 1207			1.7								.5	1.2x10 <sup>-2</sup>	7.7	5.8		.03	.01				
B 1183			1.4								.2	5.1x10 <sup>-3</sup>	4.0	2.4		.02	.01				
B 1150			1.5								.1	2.6x10 <sup>-3</sup>	2.0	1.2		.04	.01				
12		360	16.5	PAGE TOTALS							TOTAL ACTIVITY		4.1x10 <sup>-1</sup>	190	TOTAL SNM						

90715

Distribution of Copies (Please circle copy number) 2 Must accompany waste in transit

4 Must be approved by Envirocare (mail or fax) prior to shipment

5 Customer copy

# ADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD (#E-100)

[1] GEN. NA Westinghouse Electric  
 ADDRESS: Westinghouse Road  
 CITY/ST/ZIP Blairsville, PA  
 CONTACT P/Rwin Dobrushin  
 PHONE: 412-374-6094

**ENVIROCARE OF UTAH, INC.**  
 46 WEST BROADWAY, SUITE 240  
 SALT LAKE CITY, UTAH 84101  
 PHONE: (801)532-1330  
 FAX: (801)537-7345

[7] PAGE 1 OF 2 RECORD #: 0674-04-13  
 USE ON ALL CONTINUATION PAGES)  
 RAIL CAR/TRAILER #: 10601/10662A  
 Consigned to: ENVIROCARE OF UTAH, INC., CLIVE DISPOSAL SITE  
 INTERSTATE 80, EXIT 49, WEST OF SALT LAKE, UTAH 8402

[2] BILL DISPOSAL CHARGES TO:  
 NAME: Westinghouse Electric  
 P.O./CONT. MB 38056  
 ADDRESS: P. O. Box 355  
 CITY/ST/ZIP Pittsburgh, PA  
 PHONE: 412-374-6094

[5] TOTAL, EACH	PROPER SHIPPING NAME & HAZARD CL	DOT ID
# of Pkgs. (Tons)	(per 49 CFR 172.101)	NUMBER
14	Radioactive material, low specific activity, n.o.s	UN 2912
	7, UN2912	

[6] No. of Cont.	SHIPMENT TOTALS				TOTAL SNM		
	Activity in Millicuries				Isotope	Grams	# of Cont.
14	H-3*	0			U-233	0	0
	C-14*	0			U-235	132	14
	Tc-99*	0			Pu	0	0
Volume	l-129*	0			Total	132	14
420	Cu. Ft.	U-235	2.8410 <sup>1</sup>		PHYSICAL FORM		
					solid		
					CHEMICAL FORM		
					oxide		
				Total	2.8410 <sup>1</sup>		

**TERMS AND CONDITIONS**

A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material is -- OR -- X is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1.

B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc.

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[3] AGENT/BRKR:  
 CONTACT:  
 ADDRESS:  
 CITY/ST/ZIP:  
 PHONE:  
 SIGN/DATE:

[4] CARRIER: Autumn TransSHIP DATE: 11-7-97  
 CARRIER EPA # (if any):  
 ADDRESS: 518 Perkins Jones Rd.  
 CITY/ST/ZIP Warren, Ohio 44483  
 CONTACT: Mark Huggins  
 PHONE: 330-372-5002

MANIFEST DOCUMENT NUMBER  
 (HAZARDOUS WASTE ONLY):

TYPE OF CONTAINER	ntainer Volume Cu. Ft.	# of Packages	Cu. Ft. Per Container Type
Drums:			
Overpack:			
55:			
30:			
Boxes:			
1st Size:			
2nd Size:			
3rd Size:			
Rail cars:			
Truck/Trailer:			
Dump:			
Trailer:			
Other:	30	14	420
Other:			
Other:			
<b>SHIPMENT TOTALS</b>		<b>14</b>	<b>420</b>

\* Must show "0" if not present. List additional nuclides and activities in blank spaces provide

THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE REGULATIONS, AND ARE IN COMPLIANCE WITH ALL REQUIREMENTS APPLICABLE AT THE DEPARTMENT OF TRANSPORTATION AND THE REQUIREMENTS OF 10 CFR PART 61 AND PART 20.311 OR EQUIVALENT STATE REGULATIONS. I CERTIFY THAT ALL ITEMS ON THIS RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD HAVE BEEN EXAMINED, INCLUDING DIAGRAMS, AND ALL INFORMATION SUBMITTED IS TRUE, CORRECT AND COMPLETE.

*Rwin Dobrushin Sr. Prod Hygienist 10/4/97*  
 Authorized Signature of Customer Title Date  
*Rwin Dobrushin*  
 Printed Name of Authorized Signature

**THIS AREA IS FOR ENVIROCARE OF UTAH, INC. USE ONLY**

CHECK ALL THAT APPLY TO THIS LOAD: DESCRIBE INADEQUACIES IN COMMENTS		EC INVOICE #:
<input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other		INVOICE DATE:
<input checked="" type="checkbox"/> No Violations Detected on this Shipment		EC CUSTOMER #:
COMMENTS: SHIPMENT RECEIVED FOR DISPOSAL <input checked="" type="checkbox"/> SHIPMENT REJECTED FOR DISPOSAL <input type="checkbox"/> <i>Daniel Wilson</i> NOV 20 1997 INSPECTOR DATE		DISTRIBUTION: White, Yellow, Pink - Must accompany waste in t Green - Must be mailed to & be approved by Envirocare of Utah prior to shipment, unless a copy has been sent by fax.
		Gold - Customer Copy.

20715

# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse Electric  
 Agent/Broker: NA  
 Bates #: NA

Record #: 0674-04-13  
 Page 2 of 2

30915

Item #	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Cont. (MBq)	Total Activity per nuclide (per Cont.) (mcuries)	Radio-nuclide Conc. pCi/gram	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Hazard Class	D.O.T. Label (49 CFR 172.400)
																Surface	Metres	Office Use Only			
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19a]	[19b]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]
B-162	BAG	30	1.2	solid	A	None	dirt/slag	Oxide/none	none	U-235	.30	7.2x10 <sup>-3</sup>	6.9	3.4	-0-	.02	.01		1		Radioactive LSA
B-123			1.7				dirt/delors				.60	1.6x10 <sup>-2</sup>	10.5	7.4		.02	.01				
B-1223			1.5								.70	2x10 <sup>-2</sup>	14.6	9.2		.02	.01				
B-1212			1.6								.90	2.3x10 <sup>-2</sup>	13.9	11.0		.02	.02				
B-1205			1.8								1.3	3.6x10 <sup>-2</sup>	30.0	17.0		.03	.01				
B-1202			1.3								.6	1.5x10 <sup>-2</sup>	13	7.1		.02	.01				
B-1193			1.4								.6	1.7x10 <sup>-2</sup>	13	7.8		.02	.01				
B-1167			1.4								.2	5.7x10 <sup>-3</sup>	4.5	2.7		.04	.01				
B-1157			1.6								.6	1.5x10 <sup>-2</sup>	10.3	7.0		.03	.01				
B-1149			1.5								.6	1.6x10 <sup>-2</sup>	11.6	7.4		.02	.01				
B-1242			1.7								1.0	2.6x10 <sup>-2</sup>	17.3	12.0		.02	.01				
B-1012			1.2								1.7	4.7x10 <sup>-2</sup>	43	22		.03	.01				
B-1237			1.7								.7	1.8x10 <sup>-2</sup>	11.6	8.5		.01	.01				
B-1171			1.5								.8	2.1x10 <sup>-2</sup>	25	9.9		.03	.01				
14		420	20.6	PAGE TOTALS							TOTAL ACTIVITY		2.8x10 <sup>-1</sup>	132	TOTAL SNM						



# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse Electric  
 Agent/Broker: NA  
 Bates #: NA

Record #: 0674-04-14  
 Page 2 of 2

Item #	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Cont. (MBq)	Total Activity per nuclide (per Cont.) (mcuries)	Radio-nuclide Conc. pCi/gram	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Hazard Class	D.O.T. Label (49 CFR 172.400)
																Surface	Metres	Office Use Only			
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]
B 1591	BAG	30	1.4	solid	A	None	dirt/slag	Oxide/none	none	U-235	.005	1.3x10 <sup>-4</sup>	.1	.06	-0-	.04	.01		.1	NA	Radioactive LSA
B 1583			1.3								.005	1.2x10 <sup>-4</sup>	.1	.06		.02	.01				
B 1517			1.0								.10	3.2x10 <sup>-3</sup>	3.6	1.5		.01	.01				
B 1220			1.6				dirt/debris				.70	1.8x10 <sup>-2</sup>	12.1	4.3		.01	.01				
B 1201			1.5								.80	2.1x10 <sup>-2</sup>	16.0	9.6		.02	.01				
B 1175			1.7								.50	1.2x10 <sup>-2</sup>	7.8	5.7		.02	.01				
B 1162			1.5								.70	1.8x10 <sup>-2</sup>	13.2	8.3		.04	.01				
B 1156			1.7								.02	6.6x10 <sup>-3</sup>	4.3	3.1		.03	.01				
B 1143			1.4								11.4	1.1x10 <sup>-1</sup>	236	144		.05	.01				
B 1542			1.4								.02	4.2x10 <sup>-4</sup>	3.3	.2		.02	.01				
		300		14.5		PAGE TOTALS				TOTAL ACTIVITY		1.9x10 <sup>-1</sup>			TOTAL SNM		18				

70815



# RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD (#E-100)

[1] GEN. NAME: Westinghouse Electric  
 ADDRESS: Westinghouse Road  
 CITY/ST/ZIP: Blairsville, PA  
 CONTACT PER: Irwin Dobrushin  
 PHONE: 412-374-6094

**ENVIROCARE OF UTAH, INC.**  
**46 WEST BROADWAY, SUITE 240**  
**SALT LAKE CITY, UTAH 84101**  
**PHONE: (801)532-1330**  
**FAX: (801)537-1545**

[7] PAGE 1 OF 2 RECORD #: 0674-04-15

(USE ON ALL CONTINUATION PAGES)

RAIL CAR/TRAILER #: H 491 10467  
 Consigned to: ENVIROCARE OF UTAH, INC., CLIVE DISPOSAL SITE  
 INTERSTATE 80, EXIT 49, WEST OF SALT LAKE, UTAH 84029

[2] BILL DISPOSAL CHARGES TO:  
 NAME: Westinghouse Roi Electric  
 P.O./CONT. #: MB 38056  
 ADDRESS: P. O. Box 355  
 CITY/ST/ZIP: Pittsburgh, PA  
 PHONE: 412-374-6094

[5] TOTAL, EACH CLASS		PROPER SHIPPING NAME & HAZARD CLASS (per 49 CFR 172.101)	DOT ID NUMBER
# of Pkgs.	Weight (Tons)		
15	22	Radioactive material, low specific activity, n.o.s	UN 2912
		7, UN2912	

[6] SHIPMENT TOTALS					TOTAL SNM		
No. of Cont.	Activity in Millicuries				Isotope	Grams	# of Cont.
		H-3*	0				
15	C-14*	0			U-235	137	15
	Tc-99*	0			Pu	0	0
Volume	I-129*	0			Total	137	15
Cu. Ft.	U-235	3.1 x 10 <sup>-1</sup>			PHYSICAL FORM		
450					solid		
					CHEMICAL FORM		
					oxide		
	Total	3.1 x 10 <sup>-1</sup>					

\* Must show "0" if not present. List additional nuclides and activities in blank spaces provided.

THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MAI AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE D.O.T. REGULATIONS, AND ARE IN COMPLIANCE WITH ALL REQUIREMENTS APPLICABLE AT THE DESIGNATED DISPOSAL SIT AND THE REQUIREMENTS OF 10 CFR PART 61 AND PART 20.311 OR EQUIVALENT STATE REGULATIONS. IT IS FURTHERI CERTIFIED THAT ALL ITEMS ON THIS RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD HAVE BEEN THOROUGH EXAMINED, INCLUDING DIAGRAMS, AND ALL INFORMATION SUBMITTED IS TRUE, CORRECT AND COMPLETE.

Irwin J. Dobrushin Sr. - Ind Hqs 11/21/97  
 Authorized Signature of Customer Title Date  
Irwin J. Dobrushin  
 Printed Name of Authorized Signature

[3] AGENT/BRKR: \_\_\_\_\_  
 CONTACT: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 CITY/ST/ZIP: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
 SIGN/DATE: \_\_\_\_\_

[4] CARRIER: Autumn Transport SHIP DATE: 12/1/97  
 CARRIER EPA # (if any): \_\_\_\_\_  
 ADDRESS: 518 Perkins Jones Rd.  
 CITY/ST/ZIP: Warren, Ohio 44483  
 CONTACT: Mark Huggins  
 PHONE: 330-372-5002

MANIFEST DOCUMENT NUMBER  
 (HAZARDOUS WASTE ONLY): \_\_\_\_\_

TYPE OF CONTAINER	Container Volume Cu. Ft.	# of Packages	Cu. Ft. Per Container Type
Drums:			
Overpack:			
55:			
30:			
Boxes:			
1st Size:			
2nd Size:			
3rd Size:			
Rail cars:			
Truck/Trailer:			
Dump:			
Trailer:			
Other:	30	15	450
Other:			
Other:			
SHIPMENT TOTALS		15	450

**TERMS AND CONDITIONS**

A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material    is - OR - X is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1.

B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc.

C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license.

D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD, or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such

**THIS AREA IS FOR ENVIROCARE OF UTAH, INC. USE ONLY**

CHECK ALL THAT APPLY TO THIS LOAD: DESCRIBE INADEQUACIES IN COMMENTS

COMMENTS:

Record Waste Description Inadequate  
 Contamination or Leakage Detected  
 Unexpected Exposure Rates Detected  
 Labels, Markings, etc. Inadequate  
 Container Integrity Inadequate  
 Other  
 No Violations Detected on this Shipment.

SHIPMENT RECEIVED FOR DISPOSAL  
 SHIPMENT REJECTED FOR DISPOSAL

Daniel Silven  
 INSPECTOR

DATE: DEC 04 1997

EC INVOICE #: \_\_\_\_\_  
 INVOICE DATE: \_\_\_\_\_  
 EC CUSTOMER #: \_\_\_\_\_

DISTRIBUTION:  
 White, Yellow, Pink - Must accompany waste in transit.  
 Green - Must be mailed to & be approved by Envirocare of Utah prior to shipment, unless a copy has been sent by fax.

Gold - Customer Copy.

8045

# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse Electric  
 Agent/Broker: NA  
 Bates #: NA

Record #: 0674-04-15  
 Page 2 of 2

Item # [8]	Container Type [9]	Container Volume (Cu. Ft.) [10]	Waste Net Weight (Tons) [11]	Physical Form [12]	Waste Class (A,B,C) [13]	Solidification Agent (if any) [14]	Waste Description [15]	Chemical Form/Chelating Agent [16]	Chelating Agent Conc. [17]	Radio-nuclides Present [18]	Total Activity per Container (MBq) [19a]	Total Activity per nuclide (per Cont.) (mcuries) [19b]	Radio-nuclide Conc. pCi/gram [20]	SNM grams [21]	Source Material (Kg) [22]	Radiation Levels (mR/hr) (uR/h)			Transport Index [26]	Hazardous Waste Class [27]	D.O.T. Label (49 CFR 172.400) [28]	
																Surface [23]	Met [24]	Office Use Only [25]				
B 1206	BAG	30	1.5	solid	A	None	dirt/debris	Oxide/none	none	U-235	1.3	$3.6 \times 10^{-2}$	27	17	0	.03	.01		.1	NA	Radioactive LSA	
90			1.2				dirt/slag				.06	$1.6 \times 10^{-4}$	.14	.07		.02	.02					
B 1264			1.5				dirt/debris				.29	$2.9 \times 10^{-3}$	6.0	3.7		.01	.01					
B 1227			1.6								.50	$1.3 \times 10^{-2}$	9.0	6.0		.01	.01					
B 1219			1.5								.52	$1.4 \times 10^{-2}$	10.0	7.0		.01	.01					
B 1210			1.6								.42	$1.1 \times 10^{-2}$	7.7	5.3		.03	.01					
B 1204			1.5								2.4	$6.3 \times 10^{-2}$	46.0	30.0		.04	.01					
B 1199			1.6								.9	$2.4 \times 10^{-2}$	17.0	11.4		.02	.01					
B 1189			1.4								.6	$1.5 \times 10^{-2}$	12.0	7.2		.03	.01					
B 1174			1.7								.4	$1.1 \times 10^{-2}$	7.3	5.0		.03	.01					
B 1162			1.5								.5	$1.4 \times 10^{-2}$	10.1	6.3		.03	.01					
B 1153			1.4								.7	$1.8 \times 10^{-2}$	12.7	8.5		.02	.01					
08			1.1				dirt				1.6	$4.4 \times 10^{-2}$	43	21		.03	.01					
B 1566			1.3				dirt				.10	$2.7 \times 10^{-3}$	2.2	1.3		.02	.01					
B 1158			1.4				dirt				.60	$1.5 \times 10^{-2}$	11.5	7.0		.03	.01					
											PAGE TOTALS		TOTAL ACTIVITY		3.1 x 10 <sup>-1</sup>		TOTAL SNM		137			

9 of 15

# RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD (#E-100)

**ENVIROCARE OF UTAH, INC.**  
**46 WEST BROADWAY, SUITE 240**  
**SALT LAKE CITY, UTAH 84101**  
**PHONE: (801)532-1330**  
**FAX: (801)557-1345**

[7] PAGE 1 OF 2 RECORD #: 0674-04-16  
 (USE ON ALL CONTINUATION PAGES)

[1] GEN. NAME: Westinghouse Electric  
 ADDRESS: Westinghouse Road  
 CITY/ST/ZIP: Blairsville, PA  
 CONTACT PER: Irwin Dobrushin  
 PHONE: 412-374-6094

RAIL CAR/TRAILER #: 57201  
 Consigned to: ENVIROCARE OF UTAH, INC., CLIVE DISPOSAL SITE  
INTERSTATE 80, EXIT 49, WEST OF SALT LAKE, UTAH 84029

[2] BILL DISPOSAL CHARGES TO:  
 NAME: Westinghouse Roi Electric  
 P.O./CONT. #: MB 38056  
 ADDRESS: P. O. Box 355  
 CITY/ST/ZIP: Pittsburgh, PA  
 PHONE: 412-374-6094

[5] TOTAL, EACH CLASS		PROPER SHIPPING NAME & HAZARD CLASS (per 49 CFR 172.101)	DOT ID NUMBER
# of Pkgs.	Weight (Tons)		
14	22	Radioactive material, low specific activity, n.o.s	UN 2912
		7, UN2912	

[6] SHIPMENT TOTALS						TOTAL SNM		
No. of Cont.	Activity in Millicuries					Isotope	Grams	# of Cont.
		H-3*	0					
14	C-14*	0				U-235	122	14
	Tc-99*	0				Pu	0	0
	I-129*	0				Total	122	14
Volume								
Cu. Ft.	U-235	2.6 x 10 <sup>-1</sup>				PHYSICAL FORM		
420						solid		
						CHEMICAL FORM		
						oxide		
		Total		2.6 x 10 <sup>-1</sup>				

[3] AGENT/BRKR: \_\_\_\_\_  
 CONTACT: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 CITY/ST/ZIP: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
 SIGN/DATE: \_\_\_\_\_

**TERMS AND CONDITIONS**

A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material    is – OR –    is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1.

B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc.

C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license.

D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD, or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such

\* Must show "0" if not present. List additional nuclides and activities in blank spaces provided.

THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MAI AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE D.O.T. REGULATIONS, AND ARE IN COMPLIANCE WITH ALL REQUIREMENTS APPLICABLE AT THE DESIGNATED DISPOSAL SIT AND THE REQUIREMENTS OF 10 CFR PART 61 AND PART 20.311 OR EQUIVALENT STATE REGULATIONS. IT IS FURTHER CERTIFIED THAT ALL ITEMS ON THIS RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD HAVE BEEN THOROUGHLY EXAMINED, INCLUDING DIAGRAMS, AND ALL INFORMATION SUBMITTED IS TRUE, CORRECT AND COMPLETE.

Irwin J. Dobrushin Sr. Ind Hyg 11/21/97  
 Authorized Signature of Customer Title Date  
Irwin Dobrushin  
 Printed Name of Authorized Signature

[4] CARRIER: Autumn Transport SHIP DATE: 12/1/97  
 CARRIER EPA # (if any): \_\_\_\_\_  
 ADDRESS: 518 Perkins Jones Rd.  
 CITY/ST/ZIP: Warren, Ohio 44483  
 CONTACT: Mark Huggins  
 PHONE: 330-372-5002

MANIFEST DOCUMENT NUMBER \_\_\_\_\_  
 (HAZARDOUS WASTE ONLY): \_\_\_\_\_

TYPE OF CONTAINER	Container Volume		# of Packages	Cu. Ft. Per Container Type
	Cu. Ft.			
Drums:				
Overpack:				
55:				
30:				
Boxes:				
1st Size:				
2nd Size:				
3rd Size:				
Rail cars:				
Truck/Trailer:				
Dump:				
Trailer:				
Other:	30		14	420
Other:				
Other:				
SHIPMENT TOTALS				14 420

**THIS AREA IS FOR ENVIROCARE OF UTAH, INC. USE ONLY**

CHECK ALL THAT APPLY TO THIS LOAD: DESCRIBE INADEQUACIES IN COMMENTS		EC INVOICE #: _____
<input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Shipment.		INVOICE DATE: _____
		EC CUSTOMER #: _____
COMMENTS:  SHIPMENT RECEIVED FOR DISPOSAL SHIPMENT REJECTED FOR DISPOSAL <u>Daniel Bilson</u> INSPECTOR		<b>DISTRIBUTION:</b>
		White, Yellow, Pink - Must accompany waste in transit.  Green - Must be mailed to & be approved by Envirocare of Utah prior to shipment, unless a copy has been sent by fax.
DATE <u>DEC 04 1997</u>		Gold - Customer Copy.

# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse Electric  
 Agent/Broker: NA  
 Bates #: NA

Record #: 0674-04-16  
 Page 2 of 2

Item #	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Cont. (MBq) (19a)	Total Activity per nuclide (per Cont.) (mcuries) (19b)	Radio-nuclide Conc. (pCi/gram) (20)	SNM grams (21)	Source Material (Kg) (22)	Radiation Levels (mR/hr) (uR/h)			Office Use Only (25)	Transport Index (26)	Hazard Class (27)	D.O.T. Label (49 CFR 172.400) (28)
																Surface	Metres	Use Only				
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19a]	[19b]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	
B 1580	BAG	30	1.3	solid	A	None	dirt	Oxide/none	none	U-235	.05	$1.3 \times 10^{-2}$	1.1	7	0-	.02	.01		.1	NA	Radioactive LSA	
B 1226			1.7				dirt				.7	$1.8 \times 10^{-2}$	12.0	8.5		.01	.01					
B 1217			1.6				dirt				.6	$1.6 \times 10^{-2}$	11.0	7.3		.01	.01					
B 1209			1.5				dirt/debris				.6	$1.7 \times 10^{-2}$	12.5	8.0		.02	.01					
B 1198			1.8								.5	$1.3 \times 10^{-2}$	7.9	6.1		.03	.01					
B 1187			1.5								.6	$1.5 \times 10^{-2}$	11.0	7.0		.02	.01					
B 1173			1.4				dirt				.5	$1.2 \times 10^{-2}$	9.3	5.7		.03	.01					
B 1160			1.6								.5	$1.2 \times 10^{-2}$	8.1	5.6		.03	.01					
B 1154			1.7								.7	$1.8 \times 10^{-2}$	11.8	8.5		.03	.01					
B 1152			1.6				dirt/debris				1.1	$3 \times 10^{-2}$	21.0	14		.03	.01					
B 1109			1.6								.6	$1.6 \times 10^{-2}$	11.3	7.5		.03	.01					
B 1009			1.4				dirt				2.0	$5.4 \times 10^{-2}$	43	25		.03	.01					
B 1228			1.6								.6	$1.6 \times 10^{-2}$	11.4	7.5		.02	.01					
			1.7								.8	$2.2 \times 10^{-2}$	14.5	10.4								
14		420	22	PAGE TOTALS							TOTAL ACTIVITY		$2.6 \times 10^5$	122	TOTAL SNM							

# ADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD (#E-100)

[1] GEN. NA Westinghouse Electric  
 ADDRESS: Westinghouse Road  
 CITY/ST/ZIP: Blairsville, PA  
 CON: Irwin Dobrushin  
 PHONE: 412-374-6094

**ENVIROCARE OF UTAH, INC.**  
 46 WEST BROADWAY, SUITE 240  
 SALT LAKE CITY, UTAH 84101  
 PHONE: (801)532-1330  
 FAX: (801)537-7345

[7] PAGE 1 OF 5 RECORD #: 0674-04-017

USE ON ALL CONTINUATION PAGES)  
 RAIL CAR/TRAILER #: 180/401012  
 Consigned to: ENVIROCARE OF UTAH, INC., CLIVE DISPOSAL SITE  
 INTERSTATE 80, EXIT 49, WEST OF SALT LAKE, UTAH 8402

[2] BILL DISPOSAL CHARGES TO:  
 NAME: Westinghouse Electric  
 P.O./CONT. MB 38056  
 ADDRESS: P. O. Box 355  
 CITY/ST/ZIP: Pittsburgh, PA  
 PHONE: 412-374-6094

[5] TOTAL, EACH	PROPER SHIPPING NAME & HAZARD CL	DOT
# of	Weight	ID
Pkgs.	(Tons)	NUMBER
64	19.8	UN 2912
		7, UN 2912 (Fissile excepted)

[6] SHIPMENT TOTALS						TOTAL SNM		
No. of	Activity in Millicuries					Isotope	Grams	# of Cont.
	Cont.	H-3*	0				U-233	0
64	C-14*	0				U-235	309	64
	Tc-99*	0				Pu	0	0
Volume	I-129*	0				Total	309	64
Cu. Ft.	U-235	8.9x10 <sup>-1</sup>				PHYSICAL FORM		
544						solid		
						CHEMICAL FORM		
						oxide		
					Total	8.9x10 <sup>-1</sup>		

[3] AGENT/BRKR:  
 CONTACT: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 CITY/ST/ZIP: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
 SIGN/DATE: \_\_\_\_\_

**TERMS AND CONDITIONS**  
 A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material    is -- OR -- X is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1.

[4] CARRIER: Hittman TransSHIP DATE: 11/20/97  
 CARRIER EPA # (if any): \_\_\_\_\_  
 ADDRESS: 521 Plymouth Street  
 CITY/ST/ZIP: Greensburg, PA 15601  
 COMPANY: \_\_\_\_\_  
 PHONE: \_\_\_\_\_

B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc.

C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license.

D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc. its employees, agents and representatives against all losses and liability for any claims or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD, or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.

\* Must show "0" if not present. List additional nuclides and activities in blank spaces provide

THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE REGULATIONS, AND ARE IN COMPLIANCE WITH ALL REQUIREMENTS APPLICABLE AT THE DEPARTMENT OF TRANSPORTATION AND THE REQUIREMENTS OF 10 CFR PART 61 AND PART 20.311 OR EQUIVALENT STATE REGULATIONS. I HEREBY CERTIFY THAT ALL ITEMS ON THIS RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD HAVE BEEN EXAMINED, INCLUDING DIAGRAMS, AND ALL INFORMATION SUBMITTED IS TRUE, CORRECT AND COMPLETE.

*Irwin Dobrushin Sr. Ind. Eng.* 11/17/97  
 Authorized Signature of Customer Title Date  
*Irwin Dobrushin*  
 Printed Name of Authorized Signature

TYPE OF CONTAINER	Container Volume Cu. Ft.	# of Packages	Cu. Ft. Per Container Type
Drums:	8.5	64	544
Overpack:			
55:			
30:			
Boxes:			
1st Size:			
2nd Size:			
3rd Size:			
Trucks:			
Trailer:			
Jump:			
Other:			
Other:			
Other:			
<b>SHIPMENT TOTALS</b>		64	544

**THIS AREA IS FOR ENVIROCARE OF UTAH, INC. USE ONLY**

CHECK ALL THAT APPLY TO THIS LOAD: DESCRIBE INADEQUACIES IN COMMENTS		EC INVOICE #:
<input type="checkbox"/> Record Waste Description Inadequate	COMMENTS:	INVOICE DATE:
<input type="checkbox"/> Contamination or Leakage Detected		EC CUSTOMER #:
<input type="checkbox"/> Unexpected Exposure Rates Detected		DISTRIBUTION:
<input type="checkbox"/> Labels, Markings, etc. Inadequate		White, Yellow, Pink - Must accompany waste in t
<input type="checkbox"/> Container Integrity Inadequate		Green - Must be mailed to & be approved by Envirocare of Utah prior to shipment, unless a copy has been sent by fax.
<input type="checkbox"/> Other		Gold - Customer Copy.
<input checked="" type="checkbox"/> No Violations Detected on this Shipment	SHIPMENT RECEIVED FOR DISPOSAL	
	SHIPMENT REJECTED FOR DISPOSAL	
	<i>Daniel Wilson</i>	
	INSPECTOR	DATE
		NOV 26 1997

# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse Electric  
 Agent/Broker: NA  
 Bates #: NA

Record #: 0674-04-017  
 Page 2 of 5

Item #	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Container (MBq)	Total Activity per nuclide (per Cont.) (mcuries)	Radio-nuclide Conc. pCi/gram	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Hazardous Class	D.O.T. Label (49 CFR 172.400)
																Surface	Metres	Office Use Only			
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]
B-1035	drum	8.5	0.30	solid	A	None	dirt	Oxide/none	none	U-235	2.69	7.28E-02	290.0	34.00	- 0 -	0.11	0.02		0.1	NA	Radioactive LSA
	drum	8.5	0.31	solid	A	None	dirt	Oxide/none	none	U-235	2.29	6.18E-02	235.1	29.00	- 0 -	0.14	0.02		0.1	NA	Radioactive LSA
B-1037	drum	8.5	0.34	solid	A	None	dirt	Oxide/none	none	U-235	0.94	2.54E-02	89.2	10.00	- 0 -	0.06	0.02		0.1	NA	Radioactive LSA
B-1038	drum	8.5	0.34	solid	A	None	dirt	Oxide/none	none	U-235	0.98	2.64E-02	91.9	10.00	- 0 -	0.02	0.01		0.1	NA	Radioactive LSA
B-1039	drum	8.5	0.31	solid	A	None	dirt	Oxide/none	none	U-235	1.14	3.09E-02	118.0	10.00	- 0 -	0.05	0.01		0.1	NA	Radioactive LSA
B-1040	drum	8.5	0.25	solid	A	None	dirt	Oxide/none	none	U-235	0.82	2.21E-02	107.9	10.00	- 0 -	0.04	0.02		0.1	NA	Radioactive LSA
B-1041	drum	8.5	0.27	solid	A	None	dirt	Oxide/none	none	U-235	1.20	3.25E-02	147.9	20.00	- 0 -	0.10	0.03		0.1	NA	Radioactive LSA
B-1042	drum	8.5	0.23	solid	A	None	dirt	Oxide/none	none	U-235	0.31	8.48E-03	46.7	4.00	- 0 -	0.05	0.01		0.1	NA	Radioactiv
B-1043	drum	8.5	0.30	solid	A	None	dirt	Oxide/none	none	U-235	0.07	1.94E-03	7.8	0.90	- 0 -	0.01	0.01		0.1	NA	Radioactive LSA
B-1044	drum	3.5	0.31	solid	A	None	dirt	Oxide/none	none	U-235	0.69	1.87E-02	73.6	9.00	- 0 -	0.02	0.01		0.1	NA	Radioactive LSA
B-1045	drum			solid	A	None	dirt	Oxide/none	none	U-235	0.29	7.83E-03	32.0	4.00	- 0 -	0.05	0.01		0.1	NA	Radioactive LSA
B-1046	drum			solid	A	None	dirt	Oxide/none	none	U-235	0.10	2.82E-03	10.1	1.00	- 0 -	0.02	0.01		0.1	NA	Radioactive LSA
B-1051	drum	8.5	0.34	solid	A	None	dirt	Oxide/none	none	U-235	0.23	6.26E-03	22.2	3.00	- 0 -	0.02	0.01		0.1	NA	Radioactive LSA
B-1052	drum	8.5	0.30	solid	A	None	dirt	Oxide/none	none	U-235	0.62	1.68E-02	68.3	8.00	- 0 -	0.10	0.02		0.1	NA	Radioactive LSA
B-1053	drum	8.5	0.31	solid	A	None	dirt	Oxide/none	none	U-235	1.15	3.12E-02	118.7	10.00	- 0 -	0.03	0.01		0.1	NA	Radioactive LSA
B-1054	drum	8.5	0.36	solid	A	None	dirt	Oxide/none	none	U-235	0.59	1.58E-02	51.3	7.00	- 0 -	0.03	0.01		0.1	NA	Radioactive LSA
B-1063	drum	8.5	0.32	solid	A	None	dirt	Oxide/none	none	U-235	0.38	1.03E-02	38.0	5.00	- 0 -	0.05	0.01		0.1	NA	Radioactive LSA
B-1064	drum	8.5	0.31	solid	A	None	dirt	Oxide/none	none	U-235	0.38	1.04E-02	39.6	5.00	- 0 -	0.03	0.01		0.1	NA	Radioactive LSA
B-1065	drum	8.5	0.35	solid	A	None	dirt	Oxide/none	none	U-235	0.18	4.82E-03	16.3	2.00	- 0 -	0.03	0.01		0.1	NA	Radioactive LSA
B-1066	drum	8.5	0.36	solid	A	None	dirt	Oxide/none	none	U-235	0.21	5.80E-03	19.2	3.00	- 0 -	0.02	0.01		0.1	NA	Radioactive LSA

20      170      6.23      **PAGE TOTALS**      **TOTAL ACTIVITY**      4.10E-01      184.9      **TOTAL SNM**

# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse Electric  
 Agent/Broker: NA  
 Bates #: NA

Record #: 0674-04-017  
 Page 3 of 5

Item #	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Cont. (MBq)	Total Activity per nuclide (per Cont.) (mcuries)	Radio-nuclide Conc. pCi/gram	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Hazard Class	D.O.T. Label (49 CFR 172.400)	
																Surface	Met	Office Use Only				
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	
B-1067	drum	8.5	0.34	solid	A	None	dirt	OXIDE/NA	none	U-235	0.15	3.92E-03	13.7	2.0	-0-	0.03	0.01		0.1	NA	Radioactive LSA	
B-1068	drum	8.5	0.36	solid	A	None	dirt	OXIDE/NA	none	U-235	0.26	7.09E-03	23.0	3.0	-0-	0.05	0.01		0.1	NA	Radioactive LSA	
B-1069	drum	8.5	0.38	solid	A	None	dirt	OXIDE/NA	none	U-235	0.05	1.33E-03	4.2	0.6	-0-	0.02	0.01		0.1	NA	Radioactive LSA	
B-1070	drum	8.5	0.39	solid	A	None	dirt	OXIDE/NA	none	U-235	0.18	4.82E-03	14.4	2.0	-0-	0.02	0.01		0.1	NA	Radioactive LSA	
B-1083	drum	8.5	0.29	solid	A	None	dirt	OXIDE/NA	none	U-235	0.07	1.99E-03	8.3	0.9	-0-	0.02	0.01		0.1	NA	Radioactive LSA	
B-1084	drum	8.5	0.30	solid	A	None	dirt	OXIDE/NA	none	U-235	0.05	1.22E-03	4.8	0.6	-0-	0.03	0.01		0.1	NA	Radioactive LSA	
B-1085	drum	8.5	0.26	solid	A	None	dirt	OXIDE/NA	none	U-235	0.12	3.32E-03	15.7	2.0	-0-	0.03	0.01		0.1	NA	Radioactive LSA	
B-1086	drum	8.5	0.29	solid	A	None	dirt	OXIDE/NA	none	U-235	0.01	3.36E-04	1.4	0.2	-0-	0.03	0.01		0.1	NA	Radioactive LSA	
B-1507	drum	8.5	0.34	solid	A	None	slag	OXIDE/NA	none	U-235	0.83	2.25E-02	78.2	10.0	-0-	0.01	0.01		0.1	NA	Radioactive LSA	
B-1509	drum	8.5	0.33	solid	A	None	slag	OXIDE/NA	none	U-235	0.28	7.58E-03	27.1	4.0	-0-	0.01	0.01		0.1	NA	Radioactive LSA	
B-1511	drum	8.5	0.34	solid	A	None	slag	OXIDE/NA	none	U-235	0.44	1.18E-02	41.4	6.0	-0-	0.01	0.01		0.1	NA	Radioactive LSA	
B-1519	drum	8.5	0.28	solid	A	None	dirt/slag	OXIDE/NA	none	U-235	0.09	2.40E-03	10.4	1.0	-0-	0.02	0.01		0.1	NA	Radioactive LSA	
B-1520	drum	8.5	0.33	solid	A	None	chipped concrete	OXIDE/NA	none	U-235	0.16	4.42E-03	16.0	2.0	-0-	0.01	0.01		0.1	NA	Radioactive LSA	
B-1521	drum	8.5	0.33	solid	A	None	dirt	OXIDE/NA	none	U-235	0.92	2.49E-02	88.7	10.0	-0-	0.04	0.02		0.1	NA	Radioactive LSA	
B-1522	drum	8.5	0.31	solid	A	None	dirt	OXIDE/NA	none	U-235	0.01	1.97E-04	0.8	0.1	-0-	0.02	0.01		0.1	NA	Radioactive LSA	
B-1523	drum	8.5	0.30	solid	A	None	concrete	OXIDE/NA	none	U-235	0.16	4.45E-03	18.1	2.0	-0-	0.02	0.01		0.1	NA	Radioactive LSA	
B-1524	drum	8.5	0.26	solid	A	None	terracotta drainline	OXIDE/NA	none	U-235	2.60	7.04E-02	337.1	2.0	-0-	0.02	0.01		0.1	NA	Radioactive LSA	
B-1526	drum	8.5	0.27	solid	A	None	terracotta drainline	OXIDE/NA	none	U-235	2.76	7.47E-02	337.2	2.0	-0-	0.03	0.01		0.1	NA	Radioactive LSA	
B-1527	drum	8.5	0.27	solid	A	None	terracotta drainline	OXIDE/NA	none	U-235	2.76	7.47E-02	337.2	2.0	-0-	0.03	0.01		0.1	NA	Radioactive LSA	
B-1529	drum	8.5	0.35	solid	A	None	drainline sludge	OXIDE/NA	none	U-235	3.64	9.85E-02	336.9	50.0	-0-	0.1	0.01		0.1	NA	Radioactive LSA	
20		170	6.32	PAGE TOTALS										TOTAL ACTIVITY		4.2E -01	TOTAL SNM		102.4			

Distribution of Copies (Please circle copy number) 2 Must accompany waste in transit

4 Must be approved by Envirocare (mail or fax) prior to shipment

5 Customer copy



# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse Electric  
 Agent/Broker: NA  
 Bates #: NA

Record #: 0674-04-017  
 Page 4 of 5

Item #	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Container (MBq)	Total Activity per nuclide (per Cont.) (mcuries)	Radio-nuclide Conc. pCi/gram	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Hazard Class	D.O.T. Label (49 CFR 172.400)
																Surface	Met	Office Use Only			
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]
B-1530	drum	8.5	0.12	solid	A	None	miscellaneous trash	OXIDE/NA	none	U-235	0.00	0.00E+00	0.0	0.0	- 0	0.03	0.01		0.1	NA	Radioactive LSA
B-1536	drum	8.5	0.33	solid	A	None	dirt	OXIDE/NA	none	U-235	0.02	6.04E-04	2.2	0.3	- 0	0.02	0.01		0.1	NA	Radioactive LSA
B-1539	drum	8.5	0.34	solid	A	None	dirt	OXIDE/NA	none	U-235	0.00	4.31E-05	0.2	0.0	- 0	0.02	0.01		0.1	NA	Radioactive LSA
B-1541	drum	8.5	0.34	solid	A	None	dirt	OXIDE/NA	none	U-235	0.12	3.18E-03	11.0	1.0	- 0	0.02	0.01		0.1	NA	Radioactive LSA
B-1542	drum	8.5	0.33	solid	A	None	dirt	OXIDE/NA	none	U-235	0.24	6.53E-03	23.5	3.0	- 0	0.02	0.02		0.1	NA	Radioactive LSA
B-1548	drum	8.5	0.33	solid	A	None	dirt	OXIDE/NA	none	U-235	0.00	6.06E-05	0.2	0.0	- 0	0.02	0.01		0.1	NA	Radioactive LSA
B-1552	drum	8.5	0.32	solid	A	None	dirt	OXIDE/NA	none	U-235	0.00	6.12E-05	0.2	0.0	- 0	0.03	0.01		0.1	NA	Radioactive LSA
B-1556	drum	8.5	0.31	solid	A	None	dirt	OXIDE/NA	none	U-235	0.00	3.39E-04	1.3	0.2	- 0	0.04	0.01		0.1	NA	Radioactiv
B-1557	drum	8.5	0.32	solid	A	None	dirt	OXIDE/NA	none	U-235	0.09	2.34E-03	8.6	1.0	- 0	0.03	0.01		0.1	NA	Radioactive LSA
B-1558	drum	8.5	0.33	solid	A	None	dirt	OXIDE/NA	none	U-235	0.01	4.02E-04	1.5	0.2	- 0	0.03	0.01		0.1	NA	Radioactive LSA
B-1559	drum	8.5	0.32	solid	A	None	dirt	OXIDE/NA	none	U-235	0.01	3.19E-04	1.2	0.1	- 0	0.02	0.01		0.1	NA	Radioactive LSA
B-1560	drum	8.5	0.35	solid	A	None	dirt	OXIDE/NA	none	U-235	0.01	2.17E-04	0.7	0.1	- 0	0.02	0.01		0.1	NA	Radioactive LSA
B-1561	drum	8.5	0.28	solid	A	None	dirt	OXIDE/NA	none	U-235	0.00	4.07E-05	0.2	0.0	- 0	0.02	0.01		0.1	NA	Radioactive LSA
B-1562	drum	8.5	0.32	solid	A	None	Terracotta pipe	OXIDE/NA	none	U-235	0.08	2.05E-03	7.8	1.0	- 0	0.03	0.01		0.1	NA	Radioactive LSA
B-1563	drum	8.5	0.31	solid	A	None	internal pipe sludge	OXIDE/NA	none	U-235	1.06	2.86E-02	110.9	10.0	- 0	0.03	0.02		0.1	NA	Radioactive LSA
B-1564	drum	8.5	0.32	solid	A	None	dirt	OXIDE/NA	none	U-235	0.00	7.79E-05	0.3	0.0	- 0	0.02	0.01		0.1	NA	Radioactive LSA
B-1601	drum	8.5	0.27	solid	A	None	Dirt/Concrete	OXIDE/NA	none	U-235	0.04	1.15E-03	5.2	0.5	- 0	0.02	0.01		0.1	NA	Radioactive LSA
B-1602	drum	8.5	0.30	solid	A	None	Dirt/Concrete	OXIDE/NA	none	U-235	0.06	1.50E-03	6.1	0.7	- 0	0.02	0.01		0.1	NA	Radioactive LSA
B-1603	drum	8.5	0.31	solid	A	None	Dirt/Concrete	OXIDE/NA	none	U-235	0.06	1.59E-03	6.2	0.7	- 0	0.02	0.01		0.1	NA	Radioactive LSA
B-1604	drum	8.5	0.30	solid	A	None	Dirt/Concrete	OXIDE/NA	none	U-235	0.05	1.28E-03	5.1	0.6	- 0	0.01	0.01		0.1	NA	Radioactive LSA

20	170	6.1	<b>PAGE TOTALS</b>	<b>TOTAL ACTIVITY</b>	5.04E -02	19.5	<b>TOTAL SNM</b>
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# RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD (#E-100)

[1] GEN. NAME: Westinghouse Electric  
 ADDRESS: Westinghouse Road  
 CITY/ST/ZIP: Blairsville, PA  
 CONTACT PER: Irwin Dobrushin  
 PHONE: 412-374-6094

**ENVIROCARE OF UTAH, INC.**  
**46 WEST BROADWAY, SUITE 240**  
**SALT LAKE CITY, UTAH 84101**  
 PHONE: (801)532-1330  
 FAX: (801)537-1345

[7] PAGE 1 OF 5 RECORD #: 0674-04-018  
 (USE ON ALL CONTINUATION PAGES)

RAIL CAR/TRAILER #: 401019  
 Consigned to: ENVIROCARE OF UTAH, INC., CLIVE DISPOSAL SITE  
 INTERSTATE 80, EXIT 49, WEST OF SALT LAKE, UTAH 84029

[2] BILL DISPOSAL CHARGES TO:  
 NAME: Westinghouse Roi Electric  
 P.O./CONT. #: MB 38056  
 ADDRESS: P. O. Box 355  
 CITY/ST/ZIP: Pittsburgh, PA  
 PHONE: 412-374-6094

[5] TOTAL, EACH CLASS		PROPER SHIPPING NAME & HAZARD CLASS	DOT
# of	Weight	(per 49 CFR 172.101)	ID
Pkgs.	(Tons)		NUMBER
61	18.5	Radioactive material, low specific activity, n.o.s	UN 2912
		7, UN2912 (Fissile excepted)	

[6] SHIPMENT TOTALS						TOTAL SNM		
No. of	Activity in Millicuries					Isotope	Grams	# of Cont.
	Cont.	H-3*	0				U-233	0
61	C-14*	0				U-235	222.3	61
	Tc-99*	0				Pu	0	0
Volume	I-129*	0				Total	222.3	61
Cu. Ft.	U-235	6.14107				PHYSICAL FORM		
						solid		
541						CHEMICAL FORM		
						oxide		
						Total	6.14107	

[3]  
 AGENT/BRKR: \_\_\_\_\_  
 CONTACT: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 CITY/ST/ZIP: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
 SIGN/DATE: \_\_\_\_\_

**TERMS AND CONDITIONS**  
 A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material \_\_\_\_\_ is -- OR --  is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1.

B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc.

C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license.

D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD, or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such

\* Must show "0" if not present. List additional nuclides and activities in blank spaces provided.

THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MAI AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE D.O.T. REGULATIONS, AND ARE IN COMPLIANCE WITH ALL REQUIREMENTS APPLICABLE AT THE DESIGNATED DISPOSAL SIT AND THE REQUIREMENTS OF 10 CFR PART 61 AND PART 20.311 OR EQUIVALENT STATE REGULATIONS. IT IS FURTHER CERTIFIED THAT ALL ITEMS ON THIS RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD HAVE BEEN THOROUGH EXAMINED, INCLUDING DIAGRAMS, AND ALL INFORMATION SUBMITTED IS TRUE, CORRECT AND COMPLETE.

Irwin J. Dobrushin Sr. Ind Hygienist 11/21/97  
 Authorized Signature of Customer Title Date  
Irwin J. Dobrushin  
 Printed Name of Authorized Signature

[4]  
 CARRIER: Hittman Transport SHIP DATE: 12/2/97  
 CARRIER EPA # (if any): \_\_\_\_\_  
 ADDRESS: 521 Plymouth Street  
 CITY/ST/ZIP: Greensburg, PA 15601  
 CONTACT: Bill Bowan  
 PHONE: 1-800-233-9933

MANIFEST DOCUMENT NUMBER  
 (HAZARDOUS WASTE ONLY): \_\_\_\_\_

TYPE OF	Container Volume	# of Packages	CONTAINERS
Overpack:	13	5	65
55:			
30:			
Boxes:			
1st Size:			
2nd Size:			
3rd Size:			
Rail cars:			
Truck/Trailer:			
Dump:			
Trailer:			
Other:			
Other:			
Other:			
SHIPMENT TOTALS		61	541

**THIS AREA IS FOR ENVIROCARE OF UTAH, INC. USE ONLY**

CHECK ALL THAT APPLY TO THIS LOAD: DESCRIBE INADEQUACIES IN COMMENTS		EC INVOICE #:
<input checked="" type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input type="checkbox"/> No Violations Detected on this Shipment.		INVOICE DATE:
COMMENTS: <u>Fell outside of fingerprint parameters (suiffert)</u>		EC CUSTOMER #:
SHIPMENT RECEIVED FOR DISPOSAL SHIPMENT REJECTED FOR DISPOSAL		DISTRIBUTION:
INSPECTOR: <u>[Signature]</u> DATE: <u>12/05/97</u>		White, Yellow, Pink - Must accompany waste in transit.
		Green - Must be mailed to & be approved by Envirocare of Utah prior to shipment, unless a copy has been sent by fax.
		Gold - Customer Copy.

12/2/97

# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse Electric  
 Agent/Broker: NA  
 Bates #: NA

Record #: 0674-04-018  
 Page 2 of 5

Item #	Container Type	Volume (Cu. Ft.)	Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Cont. (MBq)	Total Activity per nuclide (per Cont.) (mcuries)	Radio-nuclide Conc. pCi/gram	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Hazard Class	D.O.T. Label (49 CFR 172.400)	
																Surface	Meta	Office Use Only				
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	
B-087	drum	8.5	0.32	solid	A	None	dirt, slag, gravel	Oxide/none	none	U-235	0.50	1.4E-02	47.30	6.32	0	0.02	0.02		0.1	NA	Radioactive LSA	
90	drum	8.5	0.27	solid	A	None	concrete	Oxide/none	none	U-235	0.58	1.6E-02	63.40	7.26	0	0.02	0.02		0.1	NA	Radioactive LSA	
B-178	drum	8.5	0.28	solid	A	None	concrete	Oxide/none	none	U-235	0.22	5.9E-03	22.90	2.74	0	0.02	0.02		0.1	NA	Radioactive LSA	
B-200	drum	8.5	0.23	solid	A	None	scabble debris	Oxide/none	none	U-235	0.05	1.3E-03	6.18	0.61	0	0.03	0.01		0.1	NA	Radioactive LSA	
B-269	drum	8.5	0.34	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.05	1.2E-03	3.96	0.57	0	0.02	0.01		0.1	NA	Radioactive LSA	
B-271	drum	8.5	0.43	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.06	1.5E-03	3.96	0.72	0	0.02	0.01		0.1	NA	Radioactive LSA	
B-272	drum	8.5	0.34	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.04	1.2E-03	3.96	0.56	0	0.02	0.01		0.1	NA	Radioactive LSA	
B-273	drum	8.5	0.31	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.04	1.1E-03	3.96	0.53	0	0.02	0.01		0.1	NA	Radioactive LSA	
B-275	drum	8.5	0.36	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.01	3.3E-04	1.02	0.15	0	0.02	0.01		0.1	NA	Radioactive LSA	
B-357	drum	8.5	0.28	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.06	1.5E-03	5.84	0.70	0	0.03	0.01		0.1	NA	Radioactive LSA	
B-375	drum	8.5	0.39	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.06	1.6E-03	4.53	0.75	0	0.03	0.01		0.1	NA	Radioactive LSA	
B-376	drum	8.5	0.32	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.05	1.3E-03	4.53	0.62	0	0.02	0.01		0.1	NA	Radioactive LSA	
7	drum	8.5	0.37	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.06	1.5E-03	4.53	0.70	0	0.02	0.01		0.1	NA	Radioactive LSA	
B-388	drum	8.5	0.35	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.04	1.2E-03	3.73	0.55	0	0.03	0.01		0.1	NA	Radioactive LSA	
B-396	drum	8.5	0.26	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.03	7.8E-04	3.33	0.36	0	0.02	0.01		0.1	NA	Radioactive LSA	
B-547	drum	8.5	0.28	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.08	2.2E-03	8.64	1.03	0	0.02	0.01		0.1	NA	Radioactive LSA	
B-564	drum	8.5	0.25	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.05	1.3E-03	5.84	0.63	0	0.02	0.01		0.1	NA	Radioactive LSA	
B-570	drum	8.5	0.28	solid	A	None	dirt/fill	Oxide/none	none	U-235	0.05	1.5E-03	5.84	0.68	0	0.01	0.01		0.1	NA	Radioactive LSA	
B-798	overpack	13	0.30	solid	A	None	clay/dirt	Oxide/none	none	U-235	0.09	2.4E-03	9.01	1.13	0	0.02	0.01		0.1	NA	Radioactive LSA	
B-799	drum	8.5	0.26	solid	A	None	clay/dirt	Oxide/none	none	U-235	0.01	2.8E-04	1.20	0.13	0	0.03	0.01		0.1	NA	Radioactive LSA	
20		174.5	6.72	PAGE TOTALS																		
											TOTAL ACTIVITY		5.70E-02	TOTAL SNM		27.8						

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Distribution of Copies (Please circle copy number) 2 Must accompany waste in transit 4 Must be approved by Envirocare (mail or fax) prior to shipment 5 Customer copy

# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse Electric  
 Agent/Broker: NA  
 Bates #: NA

Record #: 0674-04-018  
 Page 3 of 5

Item #	Container Type	Volume (Cu. Ft.)	Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Cont. (MBq)	Total Activity per nuclide (mcuries)	Radio-nuclide Conc. (pCi/gram)	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Hazardous Class	D.O.T. Label (49 CFR 172.400)
																Surface	Meter	Office Use Only			
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]
B-802	overpack	13	0.28	solid	A	None	clay/dirt	Oxide/none	none	U-235	0.01	3.0E-04	1.20	0.14	0	0.02	0.01		0.1	NA	Radioactive LSA
33	drum	8.5	0.27	solid	A	None	clay/dirt	Oxide/none	none	U-235	0.01	2.9E-04	1.20	0.14	0	0.03	0.01		0.1	NA	Radioactive LSA
B-844	drum	8.5	0.30	solid	A	None	dirt	Oxide/none	none	U-235	0.01	2.6E-04	0.95	0.12	0	0.02	0.01		0.1	NA	Radioactive LSA
B-889	drum	8.5	0.31	solid	A	None	dirt/fill	Oxide/none	none	U-235	0.30	8.0E-03	28.00	3.73	0	0.02	0.01		0.1	NA	Radioactive LSA
B-890	drum	8.5	0.28	solid	A	None	dirt/fill	Oxide/none	none	U-235	0.27	7.2E-03	28.00	3.36	0	0.02	0.01		0.1	NA	Radioactive LSA
B-892	drum	8.5	0.23	solid	A	None	dirt/fill	Oxide/none	none	U-235	0.22	5.9E-03	28.00	2.77	0	0.02	0.01		0.1	NA	Radioactive LSA
B-893	drum	8.5	0.28	solid	A	None	dirt/fill	Oxide/none	none	U-235	0.26	7.0E-03	28.00	3.29	0	0.02	0.01		0.1	NA	Radioactive LSA
B-897	drum	8.5	0.26	solid	A	None	concrete/fill	Oxide/none	none	U-235	0.02	4.1E-04	1.75	0.19	0	0.02	0.01		0.1	NA	Radioactive LSA
B-901	drum	8.5	0.31	solid	A	None	concrete/fill	Oxide/none	none	U-235	0.01	2.0E-04	0.69	0.09	0	0.02	0.01		0.1	NA	Radioactive LSA
B-902	drum	8.5	0.31	solid	A	None	concrete/fill	Oxide/none	none	U-235	0.02	4.9E-04	1.75	0.23	0	0.02	0.01		0.1	NA	Radioactive LSA
B-903	drum	8.5	0.31	solid	A	None	concrete/fill	Oxide/none	none	U-235	0.02	5.0E-04	1.75	0.23	0	0.02	0.01		0.1	NA	Radioactive LSA
B-904	drum	8.5	0.08	solid	A	None	sorted trash	Oxide/none	none	U-235			#DIV/0!	0.00	0	0.02	0.01		0.1	NA	Radioactive LSA
34	drum	8.5	0.24	solid	A	None	solidified sludge	Oxide/none	none	U-235	0.01	2.7E-04	1.26	0.13	0	0.02	0.01		0.1	NA	Radioactive LSA
B-1075	drum	8.5	0.32	solid	A	None	dirt	Oxide/none	none	U-235	0.16	4.2E-03	14.52	1.97	0	0.02	0.01		0.1	NA	Radioactive LSA
B-1076	drum	8.5	0.35	solid	A	None	dirt	Oxide/none	none	U-235	0.02	5.1E-04	1.61	0.24	0	0.03	0.01		0.1	NA	Radioactive LSA
B-1077	drum	8.5	0.33	solid	A	None	dirt	Oxide/none	none	U-235	0.16	4.2E-03	14.33	1.98	0	0.03	0.01		0.1	NA	Radioactive LSA
B-1078	drum	8.5	0.32	solid	A	None	dirt	Oxide/none	none	U-235	0.15	4.2E-03	14.24	1.95	0	0.04	0.01		0.1	NA	Radioactive LSA
B-1135	drum	8.5	0.32	solid	A	None	dirt	Oxide/none	none	U-235	0.26	7.1E-03	24.11	3.30	0	0.03	0.01		0.1	NA	Radioactive LSA
B-1136	drum	8.5	0.30	solid	A	None	dirt	Oxide/none	none	U-235	0.32	8.5E-03	31.45	3.99	0	0.03	0.01		0.1	NA	Radioactive LSA
B-1137	drum	8.5	0.30	solid	A	None	dirt	Oxide/none	none	U-235	0.18	4.7E-03	17.51	2.21	0	0.04	0.01		0.1	NA	Radioactive LSA
20		174.5	6.19	PAGE TOTALS								6.40E-02		30.1	TOTAL SNM						

140827

Distribution of Copies (Please circle copy number) 2 Must accompany waste in transit

4 Must be approved by Envirocare (mail or fax) prior to shipment

5 Customer copy

# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse Electric  
 Agent/Broker: NA  
 Bates #: NA

Record #: 0674-04-018  
 Page 4 of 5

Item #	Container Type	Volume (Cu. Ft.)	Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Cont. (MBq)	Total Activity per nuclide (mcuries)	Radio-nuclide Conc. pCi/gram	SNM grams	Source material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Hazard Class	D.O.T. Label (49 CFR 172.400)
																Surface	Meteo	Office Use Only			
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]
B-1138	overpack	13	0.28	solid	A	None	dirt	Oxide/none	none	U-235	0.17	4.6E-03	17.75	2.14	0	0.04	0.01		0.1	NA	Radioactive LSA
502	drum	8.5	0.28	solid	A	None	chipped concrete	Oxide/none	none	U-235	0.13	3.4E-03	13.60	1.59	0	0.02	0.02		0.1	NA	Radioactive LSA
B-1504	drum	8.5	0.33	solid	A	None	slag	Oxide/none	none	U-235	0.44	1.2E-02	39.90	5.55	0	0.01	0.01		0.1	NA	Radioactive LSA
B-1506	drum	8.5	0.30	solid	A	None	slag	Oxide/none	none	U-235	0.92	2.5E-02	89.90	11.56	0	0.01	0.01		0.1	NA	Radioactive LSA
B-1508	drum	8.5	0.28	solid	A	None	slag	Oxide/none	none	U-235	0.16	4.4E-03	17.80	2.08	0	0.01	0.01		0.1	NA	Radioactive LSA
B-1510	drum	8.5	0.29	solid	A	None	slag	Oxide/none	none	U-235	0.21	5.7E-03	21.70	2.65	0	0.01	0.01		0.1	NA	Radioactive LSA
B-1512	drum	8.5	0.29	solid	A	None	slag	Oxide/none	none	U-235	0.07	1.9E-03	7.35	0.90	0	0.02	0.01		0.1	NA	Radioactive LSA
B-1513	drum	8.5	0.28	solid	A	None	slag	Oxide/none	none	U-235	0.07	2.0E-03	7.70	0.91	0	0.01	0.01		0.1	NA	Radioactive LSA
B-1514	drum	8.5	0.28	solid	A	None	slag	Oxide/none	none	U-235	0.18	4.8E-03	18.60	2.23	0	0.01	0.01		0.1	NA	Radioactive LSA
B-1525	drum	8.5	0.25	solid	A	None	terracotta drainline	Oxide/none	none	U-235	2.82	7.6E-02	337.00	1.78	0	0.03	0.01		0.1	NA	Radioactive LSA
B-1528	drum	8.5	0.25	solid	A	None	terracotta drainline	Oxide/none	none	U-235	2.84	7.7E-02	337.00	1.79	0	0.03	0.01		0.1	NA	Radioactive LSA
B-1547	drum	8.5	0.30	solid	A	None	dirt	Oxide/none	none	U-235	0.01	3.3E-04	1.22	0.15	0	0.02	0.01		0.1	NA	Radioactive LSA
19	drum	8.5	0.30	solid	A	None	dirt	Oxide/none	none	U-235	0.01	2.5E-04	0.94	0.12	0	0.02	0.01		0.1	NA	Radioactive LSA
B-1550	drum	8.5	0.32	solid	A	None	dirt	Oxide/none	none	U-235	0.01	1.9E-04	0.68	0.09	0	0.02	0.01		0.1	NA	Radioactive LSA
B-1551	drum	8.5	0.29	solid	A	None	dirt	Oxide/none	none	U-235	0.00	1.3E-04	0.52	0.06	0	0.02	0.01		0.1	NA	Radioactive LSA
B-1553	drum	8.5	0.29	solid	A	None	dirt	Oxide/none	none	U-235	0.03	9.2E-04	3.47	0.43	0	0.02	0.01		0.1	NA	Radioactive LSA
B-1554	drum	8.5	0.30	solid	A	None	dirt	Oxide/none	none	U-235	0.00	8.1E-05	0.30	0.04	0	0.02	0.01		0.1	NA	Radioactive LSA
B-1599	drum	8.5	0.15	solid	A	None	trench residue	Oxide/none	none	U-235	-	-	0.00	0.00	0	0.02	0.01		0.1	NA	Radioactive LSA
B-1614	drum	8.5	0.29	solid	A	None	pipe/sludge/dirt	Oxide/none	none	U-235	3.19	8.6E-02	328.61	40.30	0	0.04	0.01		0.1	NA	Radioactive LSA
B-001	overpak	13	0.35	solid	A	None	concrete	Oxide/none	none	U-235	3.50	9.7E-02	360.00	46.00	0	0.01	0.01		0.1	na	Radioactive LSA
20		179	5.7	PAGE TOTALS																	
											TOTAL ACTIVITY		4.00E-01	TOTAL SNM		120.4					

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Distribution of Copies (Please circle copy number) 2 Must accompany waste in transit

4 Must be approved by Envirocare (mail or fax) prior to shipment

5 Customer copy



# RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD (#E-100)

[1] GEN. NAME: Westinghouse Electric  
 ADDRESS: Westinghouse Road  
 CITY/ST/ZIP: Blairsville, PA  
 CONTACT PER: Irwin Dobrushin  
 PHONE: 412-374-6094

**ENVIROCARE OF UTAH, INC.**  
**46 WEST BROADWAY, SUITE 240**  
**SALT LAKE CITY, UTAH 84101**  
**PHONE: (801)532-1330**  
**FAX: (801)551-1345**

[7] PAGE 1 OF 5 RECORD #: 0674-04-019  
 (USE ON ALL CONTINUATION PAGES)

RAIL CAR/TRAILER #: C05/Q13114  
 Consigned to: ENVIROCARE OF UTAH, INC., CLIVE DISPOSAL SITE  
INTERSTATE 80, EXIT 49, WEST OF SALT LAKE, UTAH 84029

[2] BILL DISPOSAL CHARGES TO:  
 NAME: Westinghouse Electric  
 P.O./CONT. #: MB 38056  
 ADDRESS: P. O. Box 355  
 CITY/ST/ZIP: Pittsburgh, PA  
 PHONE: 412-374-6094

[5] TOTAL, EACH CLASS		PROPER SHIPPING NAME & HAZARD CLASS	DOT ID
# of Pkgs.	Weight (Tons)	(per 49 CFR 172.101)	NUMBER
61	17.8	Radioactive material, low specific activity, n.o.s	UN 2912
		7, UN2912 (fissile excepted)	

[6] SHIPMENT TOTALS						TOTAL SNM		
No. of Cont.	Activity	Activity in Millicuries				Isotope	Grams	# of Cont.
		H-3*	0					
61	C-14*	0				U-235	286	61
	Tc-99*	0				Pu	0	0
Volume	I-129*	0				Total	286	61
Cu. Ft.	U-235	5.9 x 10 <sup>-1</sup>				PHYSICAL FORM		
						solid		
541						CHEMICAL FORM		
						oxide		
					Total	5.9 x 10 <sup>-1</sup>		

[3] AGENT/BRKR: \_\_\_\_\_  
 CONTACT: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 CITY/ST/ZIP: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
 SIGN/DATE: \_\_\_\_\_

**TERMS AND CONDITIONS**  
 A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material \_\_\_ is -- OR --  is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1.

B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc.

C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license.

D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD, or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such

\* Must show "0" if not present. List additional nuclides and activities in blank spaces provided.

THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MAINTAINED AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE D.O.T. REGULATIONS, AND ARE IN COMPLIANCE WITH ALL REQUIREMENTS APPLICABLE AT THE DESIGNATED DISPOSAL SITE AND THE REQUIREMENTS OF 10 CFR PART 61 AND PART 20.311 OR EQUIVALENT STATE REGULATIONS. IT IS FURTHER CERTIFIED THAT ALL ITEMS ON THIS RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD HAVE BEEN THOROUGHLY EXAMINED, INCLUDING DIAGRAMS, AND ALL INFORMATION SUBMITTED IS TRUE, CORRECT AND COMPLETE.

Irwin Dobrushin Sr. Ind. Hyg. 12/4/97  
 Authorized Signature of Customer Title Date  
Irwin Dobrushin  
 Printed Name of Authorized Signature

[4] CARRIER: Hittman Transport SHIP DATE: 12/97  
 CARRIER EPA # (if any): \_\_\_\_\_  
 ADDRESS: 521 Plymouth Street  
 CITY/ST/ZIP: Greensburg, PA 15601  
 CONTACT: Bill Bowan  
 PHONE: 1-800-233-9933

MANIFEST DOCUMENT NUMBER (HAZARDOUS WASTE ONLY): \_\_\_\_\_

TYPE OF CONTAINER	Container Volume Cu. Ft.	# of Packages	Cu. Ft. Per Container Type
Drums:	8.5	56	476
Overpack:	13	5	65
55:			
30:			
Boxes:			
1st Size:			
2nd Size:			
3rd Size:			
Rail cars:			
Truck/Trailer:			
Dump:			
Trailer:			
Other:			
Other:			
Other:			
SHIPMENT TOTALS		61	541

**THIS AREA IS FOR ENVIROCARE OF UTAH, INC. USE ONLY**

CHECK ALL THAT APPLY TO THIS LOAD: DESCRIBE INADEQUACIES IN COMMENTS

<input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Shipment.	COMMENTS:  SHIPMENT RECEIVED FOR DISPOSAL SHIPMENT REJECTED FOR DISPOSAL <u>Dan Gilson</u> INSPECTOR DATE 10-1997
--	--

EC INVOICE #: \_\_\_\_\_  
 INVOICE DATE: \_\_\_\_\_  
 EC CUSTOMER #: \_\_\_\_\_

**DISTRIBUTION:**  
 White, Yellow, Pink - Must accompany waste in transit.  
 Green - Must be mailed to & be approved by Envirocare of Utah prior to shipment, unless a copy has been sent by fax.  
 Gold - Customer Copy.

12 of 27

## ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse Electric  
 Agent/Broker: NA  
 Bates #: NA

Record #: 0674-04-019  
 Page 2 of 5

Item #	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Cont. (MBq)	Total Activity (per nuclide) (per Cont.) (mcuries)	Radio-nuclide Conc. (pCi/gram)	SNM (grams)	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Fissile Class	D.O.T. Label (49 CFR 172.400)	
																Surface	1 Meter	Office Use Only				
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	
B-907	drum	8.5	0.31	solid	A	None	dirt/fill	Oxide/None	None	U-235	0.02	4.87E-04	6.4	0.23	NONE	0.02	0.01		0.1	NA	Radioactive LSA	
B-910	drum	8.5	0.07	solid	A	None	trash	Oxide/None	None	U-235	0	-	<.01	<.01	NONE	0.02	0.01		0.1	NA	Radioactive LSA	
B-911	drum	8.5	0.05	solid	A	None	trash	Oxide/None	None	U-235	0	-	<.01	<.01	NONE	0.02	0.01		0.1	NA	Radioactive LSA	
B-912	drum	8.5	0.1	solid	A	None	trash	Oxide/None	None	U-235	0	-	<.01	<.01	NONE	0.02	0.01		0.1	NA	Radioactive LSA	
B-913	drum	8.5	0.1	solid	A	None	trash	Oxide/None	None	U-235	0	-	<.01	<.01	NONE	0.02	0.01		0.1	NA	Radioactive LSA	
B-1059	drum	8.5	0.31	solid	A	None	dirt	Oxide/None	None	U-235	0.5	1.26E-02	6.4	5.9	NONE	0.04	0.01		0.1	NA	Radioactive LSA	
B-1060	drum	8.5	0.32	solid	A	None	dirt	Oxide/None	None	U-235	0.4	1.12E-02	6.2	5.2	NONE	0.035	0.01		0.1	NA	Radioactive LSA	
B-1061	drum	8.5	0.32	solid	A	None	dirt	Oxide/None	None	U-235	0.27	7.23E-03	6.2	3.4	NONE	0.02	0.01		0.1	NA	Radioactive	
B-1062	drum	8.5	0.3	solid	A	None	dirt	Oxide/None	None	U-235	0.27	7.29E-03	6.9	3.4	NONE	0.025	0.01		0.1	NA	Radioactive LSA	
B-1071	drum	8.5	0.37	solid	A	None	dirt	Oxide/None	None	U-235	0.2	5.79E-03	5.3	2.7	NONE	0.04	0.01		0.1	NA	Radioactive LSA	
B-1072	drum	8.5	0.29	solid	A	None	dirt	Oxide/None	None	U-235	3.8	1.03E-01	6.9	48	NONE	0.02	0.01		0.1	NA	Radioactive LSA	
B-1073	drum	8.5	0.29	solid	A	None	dirt	Oxide/None	None	U-235	1.7	4.59E-02	6.7	21	NONE	0.06	0.01		0.1	NA	Radioactive LSA	
B-1074	drum	8.5	0.31	solid	A	None	dirt	Oxide/None	None	U-235	0.2	5.72E-03	6.4	2.7	NONE	0.03	0.01		0.1	NA	Radioactive LSA	
B-1103	drum	8.5	0.29	solid	A	None	dirt	Oxide/None	None	U-235	0.08	2.06E-03	6.8	1	NONE	0.02	0.01		0.1	NA	Radioactive LSA	
B-1104	drum	8.5	0.31	solid	A	None	dirt	Oxide/None	None	U-235	0.09	2.51E-03	6.4	1.2	NONE	0.03	0.01		0.1	NA	Radioactive LSA	
B-1105	drum	8.5	0.33	solid	A	None	dirt	Oxide/None	None	U-235	0.11	2.94E-03	6	14	NONE	0.02	0.01		0.1	NA	Radioactive LSA	
B-1106	drum	8.5	0.3	solid	A	None	dirt	Oxide/None	None	U-235	0.01	2.93E-04	6.5	0.1	NONE	0.03	0.01		0.1	NA	Radioactive LSA	
B-003	overpack	13	0.27	solid	A	None	concrete/dirt	Oxide/None	None	U-235	3.2	8.64E-02	7.4	40.4	NONE	0.02	0.01		0.1	NA	Radioactive LSA	
B-004	overpack	13	0.25	solid	A	None	concrete/dirt	Oxide/None	None	U-235	2.9	7.96E-02	8	37.2	NONE	0.01	0.01		0.1	NA	Radioactive LSA	
B-005	overpack	13	0.24	solid	A	None	concrete/dirt	Oxide/None	None	U-235	2.9	7.72E-02	8.2	36	NONE	0.02	0.01		0.1	NA	Radioactive LSA	
20		183.5	5.13	<b>PAGE TOTALS</b>									<b>TOTAL ACTIVITY</b>	4.50E-01		<b>TOTAL SNM</b>	222.2					

130727

Distribution of Copies (Please circle copy number):

1  2  3 Must accompany waste in transit

4 Must be approved by Envirocare (mail or fax) prior to shipment

5 Customer copy



## ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse  
 Agent/Broker: NA  
 Bates #: NA

Record #: 0674-04-019  
 Page 3 of 5

Item #	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Cont. (MBq)	Total Activity (per nuclide) (per Cont.) (mcuries) (19b)	Radio-nuclide Conc. (pCi/gram)	SNM (grams)	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Fissile Class	D.O.T. Label (49 CFR 172.400)
																Surface	1 Meter	Office Use Only			
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]
B-161	drum	8.5	0.32	solid	A	None	scabble debris	Oxide/None	U-235	U-235	0.07	1.79E-03	6.2	0.84	NONE	0.04	0.01		0.1	NA	Radioactive LSA
B-199	drum	8.5	0.02	solid	A	None	plastic pipe	Oxide/None	U-235	U-235	0	—	<.01	<.01	NONE	0.02	0.02		0.1	NA	Radioactive LSA
B-209	drum	8.5	0.26	solid	A	None	concrete	Oxide/None	U-235	U-235	0.01	2.18E-04	<.01	0.1	NONE	0.03	0.01		0.1	NA	Radioactive LSA
B-288	drum	8.5	0.35	solid	A	None	dirt	Oxide/None	U-235	U-235	0.05	1.34E-02	5.7	6.3	NONE	0.04	0.01		0.1	NA	Radioactive LSA
B-301	drum	8.5	0.06	solid	A	None	scrap metal	Oxide/None	U-235	U-235	0	—	<.01	<.01	NONE	0.02	0.01		0.1	NA	Radioactive LSA
B-374	drum	8.5	0.4	solid	A	None	dirt/concrete	Oxide/None	U-235	U-235	0.06	1.60E-03	5.1	0.75	NONE	0.02	0.01		0.1	NA	Radioactive LSA
B-378	drum	8.5	0.4	solid	A	None	dirt/concrete	Oxide/None	U-235	U-235	0.06	1.52E-03	5.3	0.71	NONE	0.02	0.01		0.1	NA	Radioactive LSA
B-390	drum	8.5	0.34	solid	A	None	dirt/concrete	Oxide/None	U-235	U-235	0.04	1.13E-03	5.9	0.53	NONE	0.02	0.01		0.1	NA	Radioactive LSA
B-391	drum	8.5	0.35	solid	A	None	dirt/concrete	Oxide/None	U-235	U-235	0.04	1.18E-03	5.7	0.55	NONE	0.03	0.01		0.1	NA	Radioactive LSA
B-392	drum	8.5	0.35	solid	A	None	dirt/concrete	Oxide/None	U-235	U-235	0.04	1.17E-03	5.7	0.55	NONE	0.02	0.01		0.1	NA	Radioactive LSA
B-393	drum	8.5	0.32	solid	A	None	dirt/concrete	Oxide/None	U-235	U-235	0.04	1.08E-03	6.2	0.5	NONE	0.02	0.01		0.1	NA	Radioactive LSA
B-394	drum	8.5	0.35	solid	A	None	dirt/concrete	Oxide/None	U-235	U-235	0.04	1.06E-03	5.7	0.49	NONE	0.02	0.01		0.1	NA	Radioactive LSA
B-395	drum	8.5	0.28	solid	A	None	dirt/concrete	Oxide/None	U-235	U-235	0.03	8.48E-04	7	0.4	NONE	0.03	0.01		0.1	NA	Radioactive LSA
B-398	drum	8.5	0.29	solid	A	None	dirt/concrete	Oxide/None	U-235	U-235	0.03	8.62E-04	6.9	0.4	NONE	0.02	0.01		0.1	NA	Radioactive LSA
B-417	drum	8.5	0.09	solid	A	None	scrap metal	Oxide/None	U-235	U-235	0	—	<.01	<.01	NONE	0.03	0.01		0.1	NA	Radioactive LSA
B-504	drum	8.5	0.27	solid	A	None	pipe contents	Oxide/None	U-235	U-235	0	—	<.01	<.01	NONE	0.02	0.01		0.1	NA	Radioactive LSA
B-523	drum	8.5	0.47	solid	A	None	dirt	Oxide/None	U-235	U-235	0.04	9.87E-04	4.2	0.46	NONE	0.02	0.01		0.1	NA	Radioactive LSA
B-524	drum	8.5	0.41	solid	A	None	dirt	Oxide/None	U-235	U-235	0.03	8.71E-04	4.8	0.41	NONE	0.03	0.01		0.1	NA	Radioactive LSA
B-525	drum	8.5	0.39	solid	A	None	dirt	Oxide/None	U-235	U-235	0.03	8.23E-04	5.1	0.38	NONE	0.02	0.01		0.1	NA	Radioactive LSA
B-526	drum	8.5	0.43	solid	A	None	dirt	Oxide/None	U-235	U-235	0.03	9.04E-04	4.6	0.42	NONE	0.03	0.01		0.1	NA	Radioactive LSA

20		170	6.2	PAGE TOTALS			TOTAL ACTIVITY		2.90E-02			13.8	TOTAL SNM
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1 2 3 Must accompany waste in transit

4 Must be approved by Envirocare (mail or fax) prior to shipment

5 Customer copy

140727

## ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse Electric  
 Agent/Broker: NA  
 Bates #: NA

Record #: 0674-04-019  
 Page 4 of 5

15072

Item #	Container Type	Container Volume (Cu Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Cont. (MBq)	Total Activity (per nuclide) (per Cont.) (mcuries)	Radio-nuclide Conc. (pCi/gram)	SNM (grams)	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Fissile Class	D.O.T. Label (49 CFR 172.400)
																Surface	1 Meter	Office Use Only			
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]
B-528	drum	8.5	0.46	solid	A	None	dirt	Oxide/None	None	U-235	0.03	8.98E-04	4.6	0.42	NONE	0.02	0.01		0.1	NA	Radioactive LSA
B-542	drum	8.5	0.26	solid	A	None	dirt	Oxide/None	None	U-235	0.07	1.85E-03	8.4	0.87	NONE	0.01	0.01		0.1	NA	Radioactive LSA
B-548	drum	8.5	0.32	solid	A	None	concrete	Oxide/None	None	U-235	0.08	2.29E-03	6.8	1.1	NONE	0.02	0.01		0.1	NA	Radioactive LSA
B-551	drum	8.5	0.31	solid	A	None	dirt/concrete	Oxide/None	None	U-235	0.08	2.20E-03	7.1	1	NONE	0.01	0.01		0.1	NA	Radioactive LSA
B-552	drum	8.5	0.29	solid	A	None	dirt/concrete	Oxide/None	None	U-235	0.08	2.11E-03	7.3	1	NONE	0.03	0.01		0.1	NA	Radioactive LSA
B-563	drum	8.5	0.35	solid	A	None	dirt/concrete	Oxide/None	None	U-235	0.04	1.14E-04	6	0.05	NONE	0.02	0.01		0.1	NA	Radioactive LSA
B-569	drum	8.5	0.28	solid	A	None	dirt/concrete	Oxide/None	None	U-235	0.05	1.46E-03	7.2	0.7	NONE	0.02	0.01		0.1	NA	Radioactive LSA
B-600	drum	8.5	0.32	solid	A	None	concrete chips	Oxide/None	None	U-235	0.003	7.42E-05	6.6	0.04	NONE	0.02	0.01		0.1	NA	Radioactive
B-794	drum	8.5	0.28	solid	A	None	dirt/concrete	Oxide/None	None	U-235	0.08	2.05E-03	7.9	1	NONE	0.02	0.01		0.1	NA	Radioactive LSA
B-805	overpack	13	0.35	solid	A	None	clay/dirt	Oxide/None	None	U-235	0.01	3.25E-04	6.6	0.2	NONE	0.02	0.01		0.1	NA	Radioactive LSA
B-808	drum	8.5	0.32	solid	A	None	clay/dirt	Oxide/None	None	U-235	0.01	3.24E-04	6.3	0.2	NONE	0.02	0.01		0.1	NA	Radioactive LSA
B-841	drum	8.5	0.35	solid	A	None	dirt	Oxide/None	None	U-235	0.01	2.77E-04	6.2	0.13	NONE	0.02	0.01		0.1	NA	Radioactive LSA
B-842	drum	8.5	0.25	solid	A	None	dirt	Oxide/None	None	U-235	0.01	2.81E-04	6.1	0.13	NONE	0.02	0.01		0.1	NA	Radioactive LSA
B-859	drum	8.5	0.31	solid	A	None	fill	Oxide/None	None	U-235	0.01	1.80E-04	6.9	0.1	NONE	0.02	0.01		0.1	NA	Radioactive LSA
B-888	drum	8.5	0.37	solid	A	None	dirt/fill	Oxide/None	None	U-235	0.33	8.78E-03	5.7	4.1	NONE	0.02	0.01		0.1	NA	Radioactive LSA
B-896	drum	8.5	0.28	solid	A	None	fill	Oxide/None	None	U-235	0.006	1.59E-04	7.8	0.1	NONE	0.01	0.01		0.1	NA	Radioactive LSA
B-899	drum	8.5	0.3	solid	A	None	fill	Oxide/None	None	U-235	0.006	1.73E-04	7.2	0.1	NONE	0.02	0.01		0.1	NA	Radioactive LSA
B-900	drum	8.5	0.33	solid	A	None	concrete/fill	Oxide/None	None	U-235	0.007	1.92E-04	6.5	0.1	NONE	0.02	0.01		0.1	NA	Radioactive LSA
B-905	drum	8.5	0.1	solid	A	None	sorted trash	Oxide/None	None	U-235	0	—	<.01	<.01	NONE	0.02	0.01		0.1	NA	Radioactive LSA
B-906	drum	8.5	0.3	solid	A	None	dirt/fill	Oxide/None	None	U-235	0.02	4.31E-04	7.3	0.2	NONE	0.02	0.01		0.1	NA	Radioactive LSA

20		174.5	6.13	PAGE TOTALS							TOTAL ACTIVITY	2.40E-02		11.5	TOTAL SNM
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Distribution of Copies (Please circle copy number): 1 2 3 Must accompany waste in transit 4 Must be approved by Envirocare (mail or fax) prior to shipment 5 Customer copy



# RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD (#E-100)

**ENVIROCARE OF UTAH, INC.**  
**46 WEST BROADWAY, SUITE 240**  
**SALT LAKE CITY, UTAH 84101**  
**PHONE: (801)532-1330**  
**FAX: (801)551-1545**

[7] PAGE 1 0

4 RECORD #: 0674-04-020

(USE ON ALL CONTINUATION PAGES)

RAIL CAR/TRAILER #: TU 8411-HY461012  
 Consigned to: ENVIROCARE OF UTAH, INC., CLIVE DISPOSAL SITE  
 INTERSTATE 80, EXIT 49, WEST OF SALT LAKE, UTAH 84029

[1] GEN. NAME: Westinghouse Electric  
 ADDRESS: Westinghouse Road  
 CITY/ST/ZIP: Blainsville, PA  
 CONTACT PER: Irwin Dobrushin  
 PHONE: 412-374-6094

[2] BILL DISPOSAL CHARGES TO:  
 NAME: Westinghouse Rot Electric  
 P.O./CONT. #: MB 38056  
 ADDRESS: P. O. Box 355  
 CITY/ST/ZIP: Pittsburgh, PA  
 PHONE: 412-374-6094

[3]  
 AGENT/BRKR:  
 CONTACT:  
 ADDRESS:  
 CITY/ST/ZIP:  
 PHONE:  
 SIGN/DATE:

[4]  
 CARRIER: Hittman Transport SHIP DATE: 12/9/97  
 CARRIER EPA # (if any):  
 ADDRESS: 521 Plymouth Street  
 CITY/ST/ZIP: Greensburg, PA 15601  
 CONTACT: Bill Bowan  
 PHONE: 1-800-233-9933

MANIFEST DOCUMENT NUMBER  
 (HAZARDOUS WASTE ONLY):

TYPE OF CONTAINER	Container Volume Cu. Ft.	# of Packages	Cu. Ft. Per Container Type
Drums:	8.5	40	340
Overpack:	13	9	117
55:			
30:			
Boxes:			
1st Size:			
2nd Size:			
3rd Size:			
Rail cars:			
Truck/Trailer:			
Dump:			
Trailer:			
Other:			
Other:			
Other:			
SHIPMENT TOTALS		49	447

[5] TOTAL, EACH CLASS		PROPER SHIPPING NAME & HAZARD CLASS (per 49 CFR 172.101)	DOT ID NUMBER
# of Pkgs.	Weight (Tons)		
49	13.5	Radioactive material low specific activity, n.o.s.,	UN 2912
		7, UN 2912, (fissile excepted)	

**TERMS AND CONDITIONS**  
**A. HAZARDOUS MATERIALS:** Generator represents & warrants that Waste Material    is    OR    is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1.

**B. TITLE:** Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc.

**C. WASTE MATERIAL:** Generator represents and warrants that all data set forth in this RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license.

**D. INDEMNIFICATION:** Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD, or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such

[6] No. of Cont.	SHIPMENT TOTALS Activity in Millicuries				TOTAL SNM		
	H-3*	C-14*	Tc-99*	I-129*	isotope	Grams	# of Cont.
49	0	0	0	0	U-233	0	0
					U-235	258.2	49
					Pu	0	0
					Total	258.2	49
Volume	0				<b>PHYSICAL FORM</b>		
Cu. Ft.	1.8				solid		
457					<b>CHEMICAL FORM</b>		
					oxide		
				Total	1.8		

\* Must show "0" if not present. List additional nuclides and activities in blank spaces provided.

THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MAINTAINED AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE D.O.T. REGULATIONS, AND ARE IN COMPLIANCE WITH ALL REQUIREMENTS APPLICABLE AT THE DESIGNATED DISPOSAL SITE AND THE REQUIREMENTS OF 10 CFR PART 61 AND PART 20.311 OR EQUIVALENT STATE REGULATIONS. IT IS FURTHER CERTIFIED THAT ALL ITEMS ON THIS RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD HAVE BEEN THOROUGHLY EXAMINED, INCLUDING DIAGRAMS, AND ALL INFORMATION SUBMITTED IS TRUE, CORRECT AND COMPLETE.

Irwin Dobrushin Sr. Ind Htg 12/8/97  
 Authorized Signature of Customer Title Date  
Bill Bowan Dobrushin  
 Printed Name of Authorized Signature

**THIS AREA IS FOR ENVIROCARE OF UTAH, INC. USE ONLY**

CHECK ALL THAT APPLY TO THIS LOAD: DESCRIBE INADEQUACIES IN COMMENTS

<input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Shipment.	COMMENTS:  SHIPMENT RECEIVED FOR DISPOSAL SHIPMENT REJECTED FOR DISPOSAL <u>Daniel Silsen</u> INSPECTOR	EC INVOICE #: INVOICE DATE: EC CUSTOMER #:  <b>DISTRIBUTION:</b> White, Yellow, Pink - Must accompany waste in transit. Green - Must be mailed to & be approved by Envirocare of Utah prior to shipment, unless a copy has been sent by fax.
--	--	--

DEC 12 1997 DATE Gold - Customer Copy.

12/8/97

# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse Electric  
 Agent/Broker: NA  
 Bates #: NA

Record #: 0674-04-020  
 Page 2 of 4

Item #	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Cont. (MBq)	Total Activity per nuclide (per Cont.) (mcuries)	Radio-nuclide Conc. pCi/gram	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Hazard Class	D.O.T. Label (49 CFR 172.400)					
																Surface	Metes	Office Use Only								
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]					
B-130	drum	8.5	0.05	solid	A	None	asbestos tile	OXIDE/NONE	None	U-235	0.015	4.06E-04	17.9	0.19	None	0.02	0.02		0.1	NA	radioactive 1sa					
B-137	overpack	13	0.065	solid	A	None	trash	OXIDE/NONE	None	U-235	0.004	9.89E-05	7.3	0.05	None	0.02	0.02		0.1	NA	radioactive 1sa					
B-270	overpack	13	0.39	solid	A	None	dirt/concrete	OXIDE/NONE	None	U-235	0.005	1.22E-03	3.96	0.57	None	0.02	0.01		0.1	NA	radioactive 1sa					
B-274	overpack	13	0.37	solid	A	None	dirt/concrete	OXIDE/NONE	None	U-235	0.001	2.94E-04	1.02	0.14	None	0.02	0.01		0.1	NA	radioactive 1sa					
B-397	overpack	13	0.35	solid	A	None	dirt/concrete	OXIDE/NONE	None	U-235	0.003	9.13E-04	3.33	0.43	None	0.03	0.01		0.1	NA	radioactive 1sa					
B-455	drum	8.5	0.16	solid	A	None	scrap metal	OXIDE/NONE	None	U-235	0.05	1.23E-03	10.3	0.577	None	0.02	0.01		0.1	NA	radioactive 1sa					
B-567	overpack	13	0.31	solid	A	None	dirt/concrete	OXIDE/NONE	None	U-235	0.005	1.38E-03	5.84	0.65	None	0.02	0.01		0.1	NA	radioactive 1sa					
B-801	drum	8.5	0.27	solid	A	None	clay/dirt	OXIDE/NONE	None	U-235	0.002	5.92E-04	2.65	0.28	None	0.01	0.01		0.1	NA	radioactive 1sa					
B-804	overpack	13	0.35	solid	A	None	clay/dirt	OXIDE/NONE	None	U-235	0.001	3.21E-04	1.2	0.15	None	0.01	0.01		0.1	NA	radioactive 1sa					
B-828	overpack	13	0.35	solid	A	None	fill	OXIDE/NONE	None	U-235	1E-04	2.70E-06	0.01	0.001	None	0.01	0.01		0.1	NA	radioactive 1sa					
B-830	overpack	13	0.37	solid	A	None	fill	OXIDE/NONE	None	U-235	0.0001	2.87E-06	0.01	0.001	None	0.01	0.01		0.1	NA	radioactive 1sa					
B-834	overpack	13	0.4	solid	A	None	fill	OXIDE/NONE	None	U-235	0.00012	3.18E-06	0.01	0.002	None	0.01	0.01		0.1	NA	radioactive 1sa					
B-898	drum	8.5	0.05	solid	A	None	trash	OXIDE/NONE	None	U-235	9.3E-06	2.50E-07	0.01	1E-04	None	0.01	0.01		0.1	NA	radioactive 1sa					
B-914	drum	8.5	0.31	solid	A	None	dirt/concrete	OXIDE/NONE	None	U-235	9.6E-05	2.60E-06	0.01	0.001	None	0.01	0.01		0.1	NA	radioactive 1sa					
B-915	drum	8.5	0.31	solid	A	None	dirt/concrete	OXIDE/NONE	None	U-235	9.4E-05	2.55E-06	0.01	0.002	None	0.01	0.01		0.1	NA	radioactive 1sa					
B-916	drum	8.5	0.31	solid	A	None	dirt/concrete	OXIDE/NONE	None	U-235	9.5E-05	2.57E-06	0.01	0.001	None	0.01	0.01		0.1	NA	radioactive 1sa					
B-919	drum	8.5	0.3	solid	A	None	dirt/concrete	OXIDE/NONE	None	U-235	9.5E-05	2.57E-06	0.01	0.001	None	0.01	0.01		0.1	NA	radioactive 1sa					
B-1047	drum	8.5	0.31	solid	A	None	dirt	OXIDE/NONE	None	U-235	0.02459	6.65E-03	26	3.1	None	0.03	0.01		0.1	NA	radioactive 1sa					
B-1048	drum	8.5	0.28	solid	A	None	dirt	OXIDE/NONE	None	U-235	0.01	3.91E-03	16.8	1.8	None	0.03	0.01		0.1	NA	radioactive 1sa					
B-1049	drum	8.5	0.37	solid	A	None	dirt	OXIDE/NONE	None	U-235	0.02	4.60E-03	18.6	2.2	None	0.03	0.01		0.1	NA	radioactive 1sa					
20	210.5		5.68	PAGE TOTALS													TOTAL ACTIVITY			2.2410 <sup>-2</sup>		10.1		TOTAL SNM		

150725

Distribution of Copies (Please circle copy number)  2 Must accompany waste in transit  3  4 Must be approved by Envirocare (mail or fax) prior to shipment  5 Customer copy

# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse Electric  
 Agent/Broker: NA  
 Bates #: NA

Record #: 0674-04-020  
 Page 3 of 4

Item #	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity (MBq)	Total Activity (per Cont.) (mcuries)	Radio-nuclide Conc. (pCi/gram)	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Hazard Class	D.O.T. Label (49 CFR 172.400)
																Surface	Meter	Office Use Only			
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]
B-1050	drum	8.5	0.34	solid	A	None	dirt	OXIDE/NONE	None	U-235	0.013	3.61E-03	12.5	1.7	None	0.02	0.01		0.1	NA	radioactive 1sa
B-1055	drum	8.5	0.37	solid	A	None	dirt	OXIDE/NONE	None	U-235	0.04	1.09E-02	35.1	5.17	None	0.03	0.01		0.1	NA	radioactive 1sa
B-1056	drum	8.5	0.33	solid	A	None	dirt	OXIDE/NONE	None	U-235	0.04	1.13E-02	41.3	5.3	None	0.04	0.01		0.1	NA	radioactive 1sa
B-1057	drum	8.5	0.37	solid	A	None	dirt	OXIDE/NONE	None	U-235	0.05	1.32E-02	41.8	6.1	None	0.03	0.01		0.1	NA	radioactive 1sa
B-1058	drum	8.5	0.35	solid	A	None	dirt	OXIDE/NONE	None	U-235	0.0402	1.09E-02	37.1	5.1	None	0.03	0.01		0.1	NA	radioactive 1sa
B-1079	drum	8.5	0.39	solid	A	None	dirt	OXIDE/NONE	None	U-235	0.02	4.95E-03	15.1	2.3	None	0.03	0.01		0.1	NA	radioactive 1sa
B-1080	drum	8.5	0.37	solid	A	None	dirt	OXIDE/NONE	None	U-235	0.01	3.70E-03	11.9	1.7	None	0.03	0.01		0.1	NA	radioactive 1sa
B-1081	drum	8.5	0.32	solid	A	None	dirt	OXIDE/NONE	None	U-235	0.02	4.40E-03	16.6	2.1	None	0.02	0.01		0.1	NA	radioactive 1s
B-1082	drum	8.5	0.33	solid	A	None	dirt	OXIDE/NONE	None	U-235	0.02	4.59E-03	16.8	2.1	None	0.03	0.01		0.1	NA	radioactive 1sa
B-1107	drum	8.5	0.34	solid	A	None	dirt	OXIDE/NONE	None	U-235	0.01	3.20E-03	11.2	1.5	None	0.03	0.01		0.1	NA	radioactive 1sa
B-1108	drum	8.5	0.34	solid	A	None	dirt	OXIDE/NONE	None	U-235	0.01181	3.19E-03	11	1.5	None	0.04	0.01		0.1	NA	radioactive 1sa
B-1109	drum	8.5	0.32	solid	A	None	dirt	OXIDE/NONE	None	U-235	0.01	2.50E-03	9.2	1.2	None	0.03	0.01		0.1	NA	radioactive 1sa
B-1110	drum	8.5	0.3	solid	A	None	dirt	OXIDE/NONE	None	U-235	0.015	2.21E-03	8.9	1	None	0.03	0.01		0.1	NA	radioactive 1sa
B-1123	drum	8.5	0.27	solid	A	None	dirt	OXIDE/NONE	None	U-235	0.01	2.17E-03	9.9	1	None	0.02	0.01		0.1	NA	radioactive 1sa
B-1124	drum	8.5	0.3	solid	A	None	dirt	OXIDE/NONE	None	U-235	0.01	2.17E-03	8.8	1	None	0.03	0.01		0.1	NA	radioactive 1sa
B-1125	drum	8.5	0.34	solid	A	None	dirt	OXIDE/NONE	None	U-235	0.01	2.66E-03	9.4	1.2	None	0.03	0.01		0.1	NA	radioactive 1sa
B-1126	drum	8.5	0.34	solid	A	None	dirt	OXIDE/NONE	None	U-235	0.001	3.04E-04	1.1	0.14	None	0.02	0.01		0.1	NA	radioactive 1sa
B-1289	drum	8.5	0.07	solid	A	None	trash & wood	OXIDE/NONE	None	U-235	1.7E-05	4.50E-07	0.01	2E-04	None	0.01	0.01		0.1	NA	radioactive 1sa
B-1290	drum	8.5	0.09	solid	A	None	trash	OXIDE/NONE	None	U-235	2.1E-05	5.72E-07	0.01	3E-04	None	0.01	0.01		0.1	NA	radioactive 1sa
B-1291	drum	8.5	0.07	solid	A	None	trash	OXIDE/NONE	None	U-235	1.6E-05	4.45E-07	0.01	2E-04	None	0.01	0.01		0.1	NA	radioactive 1sa
20		170	5.95	PAGE TOTALS									8.9x10 <sup>-2</sup>	40.1	TOTAL SNM						

16 of 23



# ADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD (#E-100)

(1) GEN. NA Westinghouse Electric  
 ADDRESS: Westinghouse Road  
 CITY/ST/ZIP Blairsville, PA  
 CONTACT P Erwin Dobrushin  
 PHONE: 412-374-6094

**ENVIROCARE OF UTAH, INC.**  
**46 WEST BROADWAY, SUITE 240**  
**SALT LAKE CITY, UTAH 84101**  
**PHONE: (801)532-1330**  
**FAX: (801)537-7345**

[7] PAGE 1 of 3 RECORD #: 0674-04-021  
 USE ON ALL CONTINUATION PAGES)  
 RAIL CAR/TRAILER # MB 38056-42188-1B112  
 Consigned to: ENVIROCARE OF UTAH, INC., CLIVE DISPOSAL SITE  
 INTERSTATE 80, EXIT 49, WEST OF SALT LAKE, UTAH 8402

[2] BILL DISPOSAL CHARGES TO:  
 NAME: Westinghouse Electric  
 P.O./CONT: MB 38056  
 ADDRESS: P. O. Box 355  
 CITY/ST/ZIP Pittsburgh, PA  
 PHONE: 412-374-6094

[5] TOTAL, EACH	PROPER SHIPPING NAME & HAZARD CL	DOT
# of	Weight	ID
Pkgs.	(Tons)	NUMBER
37	11.3	UN 2812
	Radioactive material low specific activity, n.o.s., 7, UN 2812, (fissile excepted)	

[6] SHIPMENT TOTALS						TOTAL SNM		
No. of	Activity in Millicuries					Isotope	Grams	# of Cont.
	Cont.	H-3*	0				U-233	0
37	C-14*	0				U-235	173.5	37
	Tc-99*	0				Pu	0	0
Volume	I-129*	0				Total	173.5	37
Cu. Ft.	U-235	1.4				PHYSICAL FORM		
359.5						solid		
						CHEMICAL FORM		
						oxide		
					Total	1.4		

[3] AGENT/BRKR:  
 CONTACT:  
 ADDRESS:  
 CITY/ST/ZIP:  
 PHONE:  
 SIGN/DATE:

**TERMS AND CONDITIONS**

A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material is -- OR -- X is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1.

B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc.

C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license.

D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD, or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.

[4] CARRIER: Hittman TransSHIP DATE: 12/12/97  
 CARRIER EPA # (if any):  
 ADDRESS: 521 Plymouth Street  
 CITY/ST/ZIP Greensburg, PA 15601  
 CONTACT: Bill Bowen  
 PHONE: 1-800-233-9933

MANIFEST DOCUMENT NUMBER  
 (HAZARDOUS WASTE ONLY):

TYPE OF CONTAINER	ntainer Volume Cu. Ft.	# of Packages	Cu. Ft. Per Container Type
Drums:	8.5	27	229.5
Overpack:	13	10	130
55:			
30:			
Boxes:			
1st Size:			
2nd Size:			
3rd Size:			
Rail cars:			
Truck/Trailer:			
Dump:			
Trailer:			
Other:			
Other:			
Other:			
<b>SHIPMENT TOTALS</b>		<b>37</b>	<b>359.5</b>

\* Must show "0" if not present. List additional nuclides and activities in blank spaces provide

THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESC AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE REGULATIONS, AND ARE IN COMPLIANCE WITH ALL REQUIREMENTS APPLICABLE AT THE DE AND THE REQUIREMENTS OF 10 CFR PART 61 AND PART 20.311 OR EQUIVALENT STATE REGU CERTIFIED THAT ALL ITEMS ON THIS RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD H EXAMINED, INCLUDING DIAGRAMS, AND ALL INFORMATION SUBMITTED IS TRUE, CORRECT

*Erwin Dobrushin Sr. Incl Hys 12/11/97*  
 Authorized Signature of Customer Title Date  
*Erwin Dobrushin*  
 Printed Name of Authorized Signature

**THIS AREA IS FOR ENVIROCARE OF UTAH, INC. USE ONLY**

CHECK ALL THAT APPLY TO THIS LOAD: DESCRIBE INADEQUACIES IN COMMENTS

COMMENTS:

Record Waste Description Inadequ  
 Contamination or Leakage Detected  
 Unexpected Exposure Rates Detected  
 Labels, Markings, etc. Inadequate  
 Container Integrity Inadequate  
 Other

No Violations Detected on this Shipment

SHIPMENT RECEIVED FOR DISPOSAL   
 SHIPMENT REJECTED FOR DISPOSAL

*Wally Bowen*  
 INSPECTOR

DATE: DEC 16 1997

EC INVOICE #: \_\_\_\_\_  
 INVOICE DATE: \_\_\_\_\_  
 EC CUSTOMER #: \_\_\_\_\_

**DISTRIBUTION:**  
 White, Yellow, Pink - Must accompany waste in t  
 Green - Must be mailed to & be approved by Env  
 of Utah prior to shipment, unless a cop  
 has been sent by fax.

61 110911



# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse Electric  
 Agent/Broker: NA  
 Bates #: NA

Record #: 0674-04-21  
 Page 2 of 3

Item #	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Container (MBq)	Total Activity per nuclide (per Cont.) (mcuries)	Radio-nuclide Conc. pCi/gram	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Hazardous Class	D.O.T. Label (49 CFR 172.400)
																Surface	Metal	Office Use Only			
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]
B-386	overpack	13	0.09	solid	A	NONE	scrap metal	oxide/none	none	U-235	0.00012	3.31E-06	0.1	0.002	NONE	0.02	0.01		0.1	na	radioactive 1sa
B-566	overpack	13	0.28	solid	A	NONE	dirt/concrete	oxide/none	none	U-235	0.046	1.24E-03	5.84	0.58	NONE	0.03	0.01		0.1	na	radioactive 1sa
B-793	overpack	13	0.37	solid	A	NONE	dirt/concrete	oxide/none	none	U-235	0.1	2.64E-03	9.01	1.23	NONE	0.01	0.01		0.1	na	radioactive 1sa
B-796	overpack	13	0.319	solid	A	NONE	concrete	oxide/none	none	U-235	0.1	2.20E-03	9.01	1.03	NONE	0.01	0.01		0.1	na	radioactive 1sa
B-797	overpack	13	0.32	solid	A	NONE	concrete	oxide/none	none	U-235	0.1	2.23E-03	9.01	1.02	NONE	0.01	0.01		0.1	na	radioactive 1sa
B-800	overpack	13	0.31	solid	A	NONE	clay/dirt	oxide/none	none	U-235	0.01	2.82E-04	1.2	0.13	NONE	0.01	0.01		0.1	na	radioactive 1sa
B-812	drum	8.5	0.38	solid	A	NONE	fill	oxide/none	none	U-235	0.001	3.25E-06	0.01	0.002	NONE	0.01	0.01		0.1	na	radioactive 1sa
B-813	drum	8.5	0.38	solid	A	NONE	fill	oxide/none	none	U-235	0.0001	3.26E-06	0.01	0.002	NONE	0.01	0.01		0.1	na	radioactive 1s
B-814	drum	8.5	0.36	solid	A	NONE	fill	oxide/none	none	U-235	0.0001	3.06E-06	0.01	0.001	NONE	0.01	0.01		0.1	na	radioactive 1sa
B-815	drum	8.5	0.36	solid	A	NONE	fill	oxide/none	none	U-235	0.00011	3.03E-06	0.01	0.001	NONE	0.01	0.01		0.1	na	radioactive 1sa
B-816	drum	8.5	0.37	solid	A	NONE	fill	oxide/none	none	U-235	0.0001	3.16E-06	0.01	0.001	NONE	0.01	0.01		0.1	na	radioactive 1sa
B-817	drum	8.5	0.37	solid	A	NONE	fill	oxide/none	none	U-235	0.0001	3.14E-06	0.01	0.001	NONE	0.01	0.01		0.1	na	radioactive 1sa
B-818	drum	8.5	0.35	solid	A	NONE	fill	oxide/none	none	U-235	0.0001	2.98E-06	0.01	0.001	NONE	0.01	0.01		0.1	na	radioactive 1sa
B-819	drum	8.5	0.35	solid	A	NONE	fill	oxide/none	none	U-235	0.0001	2.97E-06	0.01	0.001	NONE	0.01	0.01		0.1	na	radioactive 1sa
B-824	drum	8.5	0.34	solid	A	NONE	fill	oxide/none	none	U-235	0.00011	2.88E-06	0.01	0.001	NONE	0.01	0.01		0.1	na	radioactive 1sa
B-825	drum	8.5	0.36	solid	A	NONE	fill	oxide/none	none	U-235	0.0001	3.07E-06	0.01	0.001	NONE	0.01	0.01		0.1	na	radioactive 1sa
B-826	drum	8.5	0.34	solid	A	NONE	fill	oxide/none	none	U-235	0.0001	2.85E-06	0.01	0.001	NONE	0.01	0.01		0.1	na	radioactive 1sa
B-827	overpack	13	0.38	solid	A	NONE	fill	oxide/none	none	U-235	0.0001	2.95E-06	0.01	0.001	NONE	0.01	0.01		0.1	na	radioactive 1sa
B-829	overpack	13	0.37	solid	A	NONE	fill	oxide/none	none	U-235	0.0001	2.91E-06	0.01	0.001	NONE	0.01	0.01		0.1	na	radioactive 1sa
B-831	overpack	13	0.37	solid	A	NONE	fill	oxide/none	none	U-235	0.0001	2.91E-06	0.01	0.001	NONE	0.01	0.01		0.1	na	radioactive 1sa
20			210.5	6.8	<b>PAGE TOTALS</b>			<b>TOTAL ACTIVITY</b>					8.60E-03			4.01	<b>TOTAL SNM</b>				

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# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse Electric  
 Agent/Broker: NA  
 Bates #: NA

Record #: 0674-04-21  
 Page 3 of 3

Item #	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Container (MBq)	Total Activity per nuclide (per Cont.) (mcuries)	Radio-nuclide Conc. pCi/gram	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Hazardous Class	D.O.T. Label (49 CFR 172.400)	
																Surface	Metal	Office Use Only				
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	
B-833	drum	8.5	0.2	solid	A	NONE	fill	oxide/none	none	U-235	0	1.62E-06	0.01	0.001	NONE	0.01	0.01		0.1	na	radioactive 1sa	
B-835	overpack	13	0.34	solid	A	NONE	fill	oxide/none	none	U-235	0	2.62E-06	0.01	0.001	NONE	0.01	0.01		0.1	na	radioactive 1sa	
B-836	drum	8.5	0.33	solid	A	NONE	fill	oxide/none	none	U-235	0.01	2.61E-04	0.95	0.12	NONE	0.01	0.01		0.1	na	radioactive 1sa	
B-838	drum	8.5	0.33	solid	A	NONE	dirt/concrete	oxide/none	none	U-235	0.01	2.65E-04	0.95	0.12	NONE	0.01	0.01		0.1	na	radioactive 1sa	
B-1294	drum	8.5	0.16	solid	A	NONE	pipe/sludge/dirt	oxide/none	none	U-235	24	6.48E-01	5190	75.7	NONE	0.01	0.01		0.1	na	radioactive 1sa	
B-1295	drum	8.5	0.31	solid	A	NONE	concrete	oxide/none	none	U-235	0.001	2.58E-05	0.1	0.003	NONE	0.01	0.01		0.1	na	radioactive 1sa	
B-1296	drum	8.5	0.3	solid	A	NONE	concrete	oxide/none	none	U-235	0.001	2.49E-05	0.1	0.003	NONE	0.01	0.01		0.1	na	radioactive 1sa	
B-1297	drum	8.5	0.32	solid	A	NONE	concrete	oxide/none	none	U-235	0.001	2.72E-05	0.1	0.003	NONE	0.01	0.01		0.1	na	radioactive 1sa	
B-1298	drum	8.5	0.3	solid	A	NONE	concrete	oxide/none	none	U-235	0.001	2.47E-05	0.1	0.003	NONE	0.01	0.01		0.1	na	radioactive 1sa	
B-1302	drum	8.5	0.31	solid	A	NONE	concrete	oxide/none	none	U-235	0.001	2.62E-05	0.1	0.003	NONE	0.01	0.01		0.1	na	radioactive 1sa	
B-1303	drum	8.5	0.24	solid	A	NONE	concrete	oxide/none	none	U-235	0.001	1.98E-05	0.1	0.002	NONE	0.01	0.01		0.1	na	radioactive 1sa	
B-1304	drum	8.5	0.3	solid	A	NONE	concrete	oxide/none	none	U-235	0.001	2.46E-05	0.1	0.003	NONE	0.01	0.01		0.1	na	radioactive 1sa	
B-1305	drum	8.5	0.27	solid	A	NONE	concrete	oxide/none	none	U-235	0.001	2.21E-05	0.1	0.003	NONE	0.01	0.01		0.1	na	radioactive 1sa	
B-1308	drum	8.5	0.15	solid	A	NONE	samples	oxide/none	none	U-235	0.18	4.84E-03	43	2.3	NONE	0.01	0.01		0.1	na	radioactive 1sa	
B-1311	drum	8.5	0.14	solid	A	NONE	samples	oxide/none	none	U-235	0.29	7.87E-03	77	3.71	NONE	0.01	0.01		0.1	na	radioactive 1sa	
B-1609	drum	8.5	0.35	solid	A	NONE	Dirt/Concrete	oxide/none	none	U-235	0.06	1.59E-03	<0.001	0.74	NONE	0.02	0.01		0.1	na	radioactive 1sa	
B-1613	drum	8.5	0.18	solid	A	NONE	pipe/sludge/dirt	oxide/none	none	U-235	27.5	7.42E-01	5190	86.7	NONE	0.02	0.02		0.1	na	radioactive 1sa	
17		149	4.5	PAGE TOTALS										TOTAL ACTIVITY		1.44E+00	TOTAL SNM		169.4			

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# ADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD (#E-100)

[1] GEN. NA Westinghouse Electric  
 ADDRESS: Westinghouse Road  
 CITY/ST/ZIP Blairsville, PA  
 CONTACT PErwin Dobrushin  
 PHONE: 412-374-6094

**ENVIROCARE OF UTAH, INC.**  
 46 WEST BROADWAY, SUITE 240  
 SALT LAKE CITY, UTAH 84101  
 PHONE: (801)532-1330  
 FAX: (801)537-7345

[7] PAGE 1 OF \_\_\_\_\_ RECORD #: 0674-04-022

USE ON ALL CONTINUATION PAGES)  
 RAIL CAR/TRAILER # 003/101014  
 Consigned to: ENVIROCARE OF UTAH, INC., CLIVE DISPOSAL SITE  
 INTERSTATE 80, EXIT 49, WEST OF SALT LAKE, UTAH 8402

[2] BILL DISPOSAL CHARGES TO:  
 NAME: Westinghouse Electric  
 P.O./CONT. MB 38056  
 ADDRESS: P. O. Box 355  
 CITY/ST/ZIP Pittsburgh, PA  
 PHONE: 412-374-6094

# of Pkgs.	Weight (Tons)	PROPER SHIPPING NAME & HAZARD CL (per 49 CFR 172.101)	DOT ID NUMBER
81	19.4	Radioactive material, low specific activity, n.o.s	UN 2812
		7, UN2812 (frangible excepted)	

[6] SHIPMENT TOTALS						TOTAL SNM		
No. of Cont.	Activity in Millicuries					Isotopa	Grams	# of Cont.
	61	H-3*	0					
	C-14*	0				U-235	222.3	61
	Tc-99*	0				Pu	0	0
	I-129*	0				Total	222.3	61
541	U-235	6210				PHYSICAL FORM		
						solid		
						CHEMICAL FORM		
						oxide		
						Total 6210		

[3] AGENT/BRKR:  
 CONTACT:  
 ADDRESS:  
 CITY/ST/ZIP:  
 PHONE:  
 SIGN/DATE:

**TERMS AND CONDITIONS**  
 A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material is -- OR -- X is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1.

B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc.

C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license.

D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD, or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.

\* Must show "0" if not present. List additional nuclides and activities in blank spaces provide

THIS IS TO CERTIFY THAT THE HEREIN-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESC AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE REGULATIONS, AND ARE IN COMPLIANCE WITH ALL REQUIREMENTS APPLICABLE AT THE DE AND THE REQUIREMENTS OF 10 CFR PART 61 AND PART 20.311 OR EQUIVALENT STATE REGU CERTIFIED THAT ALL ITEMS ON THIS RADIOACTIVE WASTE SHIPMENT & DISPOSAL RECORD H EXAMINED, INCLUDING DIAGRAMS, AND ALL INFORMATION SUBMITTED IS TRUE, CORRECT

Erwin J. Dobrushin Sr. Ind. Hyg 12/11/97  
 Authorized Signature of Customer Title Date  
Erwin Dobrushin  
 Printed Name of Authorized Signature

[4] CARRIER: Hittman TransSHIP DATE: 12/12/97  
 CARRIER EPA # (if any):  
 ADDRESS: 521 Plymouth Street  
 CITY/ST/ZIP Greensburg, PA 15601  
 CONTACT: Bill Bowan  
 PHONE: 1-800-233-9933

MANIFEST DOCUMENT NUMBER  
 (HAZARDOUS WASTE ONLY):

TYPE OF CONTAINER	ntainer Volum Cu. Ft.	# of Packages	Cu. Ft. Per Container Type
Drums:	8.5	56	476
Overpack:	13	5	65
55:			
30:			
Boxes:			
1st Size:			
2nd Size:			
3rd Size:			
Rail cars:			
Truck/Trailer:			
Dump:			
Trailer:			
Other:			
Other:			
Other:			
<b>SHIPMENT TOTALS</b>		<b>61</b>	<b>541</b>

**THIS AREA IS FOR ENVIROCARE OF UTAH, INC. USE ONLY**

CHECK ALL THAT APPLY TO THIS LOAD: DESCRIBE INADEQUACIES IN COMMENTS		EC INVOICE #:
<input type="checkbox"/> Record Waste Description Inadequ <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Shipment		INVOICE DATE:
COMMENTS:		EC CUSTOMER #:
SHIPMENT RECEIVED FOR DISPOSAL <input checked="" type="checkbox"/> SHIPMENT REJECTED FOR DISPOSAL <input type="checkbox"/> <u>Daniel Wilson</u> DEC 16 1997 INSPECTOR DATE		DISTRIBUTION: White, Yellow, Pink - Must accompany waste in t Green - Must be mailed to & be approved by Env of Utah prior to shipment, unless a cop has been sent by fax.
Gold - Customer Copy.		

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# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse Electric  
 Agent/Broker: NA  
 Bates #: NA

Record #: 0674-04-022  
 Page 2 of 5

Item #	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Cont. (MBq)	Total Activity per nuclide (per Cont.) (mcuries)	Radio-nuclide Conc. pCi/gram	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Hazardous Waste Class	D.O.T. Label (49 CFR 172.400)
																Surface	Met	Office Use Only			
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]
B-087	drum	8.5	0.32	solid	A	None	dirt, slag, gravel	Oxide/none	none	U-235	0.50	1.4E-02	47.30	6.32	0	0.02	0.02		0.1	NA	Radioactive LSA
B-090	drum	8.5	0.27	solid	A	None	concrete	Oxide/none	none	U-235	0.58	1.6E-02	63.40	7.26	0	0.02	0.02		0.1	NA	Radioactive LSA
B-178	drum	8.5	0.28	solid	A	None	concrete	Oxide/none	none	U-235	0.22	5.9E-03	22.90	2.74	0	0.02	0.02		0.1	NA	Radioactive LSA
B-200	drum	8.5	0.23	solid	A	None	scabble debris	Oxide/none	none	U-235	0.05	1.3E-03	6.18	0.61	0	0.03	0.01		0.1	NA	Radioactive LSA
B-269	drum	8.5	0.34	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.05	1.2E-03	3.96	0.57	0	0.02	0.01		0.1	NA	Radioactive LSA
B-271	drum	8.5	0.43	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.06	1.5E-03	3.96	0.72	0	0.02	0.01		0.1	NA	Radioactive LSA
B-272	drum	8.5	0.34	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.04	1.2E-03	3.96	0.56	0	0.02	0.01		0.1	NA	Radioactive LSA
B-273	drum	8.5	0.31	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.04	1.1E-03	3.96	0.53	0	0.02	0.01		0.1	NA	Radioactive L
B-275	drum	8.5	0.36	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.01	3.3E-04	1.02	0.15	0	0.02	0.01		0.1	NA	Radioactive LSA
B-357	drum	8.5	0.28	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.06	1.5E-03	5.84	0.70	0	0.03	0.01		0.1	NA	Radioactive LSA
B-375	drum	8.5	0.39	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.06	1.6E-03	4.53	0.75	0	0.03	0.01		0.1	NA	Radioactive LSA
B-376	drum	8.5	0.32	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.05	1.3E-03	4.53	0.62	0	0.02	0.01		0.1	NA	Radioactive LSA
B-377	drum	8.5	0.37	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.06	1.5E-03	4.53	0.70	0	0.02	0.01		0.1	NA	Radioactive LSA
B-388	drum	8.5	0.35	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.04	1.2E-03	3.73	0.55	0	0.03	0.01		0.1	NA	Radioactive LSA
B-396	drum	8.5	0.26	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.03	7.8E-04	3.33	0.36	0	0.02	0.01		0.1	NA	Radioactive LSA
B-547	drum	8.5	0.28	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.08	2.2E-03	8.64	1.03	0	0.02	0.01		0.1	NA	Radioactive LSA
B-564	drum	8.5	0.25	solid	A	None	dirt/concrete	Oxide/none	none	U-235	0.05	1.3E-03	5.84	0.63	0	0.02	0.01		0.1	NA	Radioactive LSA
B-570	drum	8.5	0.28	solid	A	None	dirt/fill	Oxide/none	none	U-235	0.05	1.5E-03	5.84	0.68	0	0.01	0.01		0.1	NA	Radioactive LSA
B-798	overpack	13	0.30	solid	A	None	clay/dirt	Oxide/none	none	U-235	0.09	2.4E-03	9.01	1.13	0	0.02	0.01		0.1	NA	Radioactive LSA
B-799	drum	8.5	0.26	solid	A	None	clay/dirt	Oxide/none	none	U-235	0.01	2.8E-04	1.20	0.13	0	0.03	0.01		0.1	NA	Radioactive LSA
20		174.5	6.72	PAGE TOTALS				TOTAL ACTIVITY				5.70E-02		27.8	TOTAL SNM						

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# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse Electric  
 Agent/Broker: \_\_\_\_\_  
 Bates #: \_\_\_\_\_

Record #: 0674-04-022  
 Page 3 of 5

Item #	Container Type	Container Volume (Cu. Ft.)	Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Container (MBq)	Total Activity per nuclide (per Cont.) (mcuries)	Radio-nuclide Conc. pCi/gram	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Hazardous Waste Class	D.O.T. Label (49 CFR 172.400)
																Surface	Met	Office Use Only			
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]
B-802	overpack	13	0.28	solid	A	None	clay/dirt	Oxide/none	none	U-235	0.01	3.0E-04	1.20	0.14	0	0.02	0.01		0.1	NA	Radioactive LSA
B-803	drum	8.5	0.27	solid	A	None	clay/dirt	Oxide/none	none	U-235	0.01	2.9E-04	1.20	0.14	0	0.03	0.01		0.1	NA	Radioactive LSA
B-844	drum	8.5	0.30	solid	A	None	dirt	Oxide/none	none	U-235	0.01	2.6E-04	0.95	0.12	0	0.02	0.01		0.1	NA	Radioactive LSA
B-889	drum	8.5	0.31	solid	A	None	dirt/fill	Oxide/none	none	U-235	0.30	8.0E-03	28.00	3.73	0	0.02	0.01		0.1	NA	Radioactive LSA
B-890	drum	8.5	0.28	solid	A	None	dirt/fill	Oxide/none	none	U-235	0.27	7.2E-03	28.00	3.36	0	0.02	0.01		0.1	NA	Radioactive LSA
B-892	drum	8.5	0.23	solid	A	None	dirt/fill	Oxide/none	none	U-235	0.22	5.9E-03	28.00	2.77	0	0.02	0.01		0.1	NA	Radioactive LSA
B-893	drum	8.5	0.28	solid	A	None	dirt/fill	Oxide/none	none	U-235	0.26	7.0E-03	28.00	3.29	0	0.02	0.01		0.1	NA	Radioactive LSA
B-897	drum	8.5	0.26	solid	A	None	concrete/fill	Oxide/none	none	U-235	0.02	4.1E-04	1.75	0.19	0	0.02	0.01		0.1	NA	Radioactive L
B-901	drum	8.5	0.31	solid	A	None	concrete/fill	Oxide/none	none	U-235	0.01	2.0E-04	0.69	0.09	0	0.02	0.01		0.1	NA	Radioactive LSA
B-902	drum	8.5	0.31	solid	A	None	concrete/fill	Oxide/none	none	U-235	0.02	4.9E-04	1.75	0.23	0	0.02	0.01		0.1	NA	Radioactive LSA
B-903	drum	8.5	0.31	solid	A	None	concrete/fill	Oxide/none	none	U-235	0.02	5.0E-04	1.75	0.23	0	0.02	0.01		0.1	NA	Radioactive LSA
B-904	drum	8.5	0.08	solid	A	None	sorted trash	Oxide/none	none	U-235	.	.	0.00	0.00	0	0.02	0.01		0.1	NA	Radioactive LSA
B-1034	drum	8.5	0.24	solid	A	None	solidified sludge	Oxide/none	none	U-235	0.01	2.7E-04	1.26	0.13	0	0.02	0.01		0.1	NA	Radioactive LSA
B-1075	drum	8.5	0.32	solid	A	None	dirt	Oxide/none	none	U-235	0.16	4.2E-03	14.52	1.97	0	0.02	0.01		0.1	NA	Radioactive LSA
B-1076	drum	8.5	0.35	solid	A	None	dirt	Oxide/none	none	U-235	0.02	5.1E-04	1.61	0.24	0	0.03	0.01		0.1	NA	Radioactive LSA
B-1077	drum	8.5	0.33	solid	A	None	dirt	Oxide/none	none	U-235	0.16	4.2E-03	14.33	1.98	0	0.03	0.01		0.1	NA	Radioactive LSA
B-1078	drum	8.5	0.32	solid	A	None	dirt	Oxide/none	none	U-235	0.15	4.2E-03	14.24	1.95	0	0.04	0.01		0.1	NA	Radioactive LSA
B-1135	drum	8.5	0.32	solid	A	None	dirt	Oxide/none	none	U-235	0.26	7.1E-03	24.11	3.30	0	0.03	0.01		0.1	NA	Radioactive LSA
B-1136	drum	8.5	0.30	solid	A	None	dirt	Oxide/none	none	U-235	0.32	8.5E-03	31.45	3.99	0	0.03	0.01		0.1	NA	Radioactive LSA
B-1137	drum	8.5	0.30	solid	A	None	dirt	Oxide/none	none	U-235	0.18	4.7E-03	17.51	2.21	0	0.04	0.01		0.1	NA	Radioactive LSA

20	174.5	6.19	<b>PAGE TOTALS</b>	<b>TOTAL ACTIVITY</b>	6.40E-02	<b>TOTAL SNM</b>	30.1
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# ENVIROCARE OF UTAH, INC. - (#E-100 Continuation Sheet)

Generator Name: Westinghouse Electric  
 Agent/Broker: NA  
 Bates #: NA

Record #: 0674-04-022  
 Page 4 of 5

Item #	Container Type	Container Volume (Cu. Ft.)	Waste Net Weight (Tons)	Physical Form	Waste Class (A,B,C)	Solidification Agent (if any)	Waste Description	Chemical Form/Chelating Agent	Chelating Agent Conc.	Radio-nuclides Present	Total Activity per Container (MBq)	Total Activity per nuclide (per Cont.) (mcuries)	Radio-nuclide Conc. pCi/gram	SNM grams	Source Material (Kg)	Radiation Levels (mR/hr) (uR/h)			Transport Index	Hazardous Class	D.O.T. Label (49 CFR 172.400)
																Surface	Met	Office Use Only			
[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	(19a)	(19b)	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]
B-1138	overpack	13	0.28	solid	A	None	dirt	Oxide/none	none	U-235	0.17	4.6E-03	17.75	2.14	0	0.04	0.01		0.1	NA	Radioactive LSA
B-1502	drum	8.5	0.28	solid	A	None	chipped concrete	Oxide/none	none	U-235	0.13	3.4E-03	13.60	1.59	0	0.02	0.02		0.1	NA	Radioactive LSA
B-1504	drum	8.5	0.33	solid	A	None	slag	Oxide/none	none	U-235	0.44	1.2E-02	39.90	5.55	0	0.01	0.01		0.1	NA	Radioactive LSA
B-1506	drum	8.5	0.30	solid	A	None	slag	Oxide/none	none	U-235	0.92	2.5E-02	89.90	11.56	0	0.01	0.01		0.1	NA	Radioactive LSA
B-1508	drum	8.5	0.28	solid	A	None	slag	Oxide/none	none	U-235	0.16	4.4E-03	17.80	2.08	0	0.01	0.01		0.1	NA	Radioactive LSA
B-1510	drum	8.5	0.29	solid	A	None	slag	Oxide/none	none	U-235	0.21	5.7E-03	21.70	2.65	0	0.01	0.01		0.1	NA	Radioactive LSA
B-1512	drum	8.5	0.29	solid	A	None	slag	Oxide/none	none	U-235	0.07	1.9E-03	7.35	0.90	0	0.02	0.01		0.1	NA	Radioactive LSA
B-1513	drum	8.5	0.28	solid	A	None	slag	Oxide/none	none	U-235	0.07	2.0E-03	7.70	0.91	0	0.01	0.01		0.1	NA	Radioactive LSA
B-1514	drum	8.5	0.28	solid	A	None	slag	Oxide/none	none	U-235	0.18	4.8E-03	18.60	2.23	0	0.01	0.01		0.1	NA	Radioactive LSA
B-1525	drum	8.5	0.25	solid	A	None	teracotta drainline	Oxide/none	none	U-235	2.82	7.6E-02	337.00	1.78	0	0.03	0.01		0.1	NA	Radioactive LSA
B-1528	drum	8.5	0.25	solid	A	None	teracotta drainline	Oxide/none	none	U-235	2.84	7.7E-02	337.00	1.79	0	0.03	0.01		0.1	NA	Radioactive LSA
B-1547	drum	8.5	0.30	solid	A	None	dirt	Oxide/none	none	U-235	0.01	3.3E-04	1.22	0.15	0	0.02	0.01		0.1	NA	Radioactive LSA
B-1549	drum	8.5	0.30	solid	A	None	dirt	Oxide/none	none	U-235	0.01	2.5E-04	0.94	0.12	0	0.02	0.01		0.1	NA	Radioactive LSA
B-1550	drum	8.5	0.32	solid	A	None	dirt	Oxide/none	none	U-235	0.01	1.9E-04	0.68	0.09	0	0.02	0.01		0.1	NA	Radioactive LSA
B-1551	drum	8.5	0.29	solid	A	None	dirt	Oxide/none	none	U-235	0.00	1.3E-04	0.52	0.06	0	0.02	0.01		0.1	NA	Radioactive LSA
B-1553	drum	8.5	0.29	solid	A	None	dirt	Oxide/none	none	U-235	0.03	9.2E-04	3.47	0.43	0	0.02	0.01		0.1	NA	Radioactive LSA
B-1554	drum	8.5	0.30	solid	A	None	dirt	Oxide/none	none	U-235	0.00	8.1E-05	0.30	0.04	0	0.02	0.01		0.1	NA	Radioactive LSA
B-1599	drum	8.5	0.15	solid	A	None	trench residue	Oxide/none	none	U-235	-	-	0.00	0.00	0	0.02	0.01		0.1	NA	Radioactive LSA
B-1614	drum	8.5	0.29	solid	A	None	pipe/sludge/dirt	Oxide/none	none	U-235	3.19	8.6E-02	328.61	40.30	0	0.04	0.01		0.1	NA	Radioactive LSA
B-001	overpak	13	0.35	solid	A	None	concrete	Oxide/none	none	U-235	3.50	9.7E-02	360.00	46.00	0	0.01	0.01		0.1	na	Radioactive LSA

20	179	5.7	PAGE TOTALS	TOTAL ACTIVITY	4.00E-01	120.4	TOTAL SNM
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<b>FORM 540</b>		<b>Envirocare of Utah, Inc.</b>		<b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER</b>		5. SHIPPER - NAME AND FACILITY <b>Westinghouse Electric Company - SMP RD #4 Box 333 Westinghouse Road Blairsville, PA 16717</b>		SHIPMENT I.D. NUMBER <b>NA</b>		7. FORM 540 AND 540A PAGE 1 OF 2 PAGE(S) FORM 541 AND 541A 4 PAGE(S) FORM 542 AND 542A None PAGE(S) ADDITIONAL INFORMATION PAGE(S)		8. MANIFEST NUMBER (Use this number on all continuation pages) <b>0674-04-023</b>					
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) <b>412-374-4019</b>		3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST <b>14</b>		UTAH DISPOSAL PERMIT NUMBER <b>NA</b>		SHIPMENT NUMBER <b>0674-04-023</b>		<input checked="" type="checkbox"/> GENERATOR TYPE (Specify) <input type="checkbox"/>		9. CONSIGNEE - Name and Facility Address <b>Envirocare of Utah, Inc. Clive Disposal Site Interstate 80, Exit 49 Clive, UT 84029</b>		CONTACT <b>Shipping and Receiving</b> TELEPHONE NUMBER (Include Area Code) <b>(435) 884-0155</b>					
ORGANIZATION <b>Westinghouse Electric Company</b>		6. CARRIER - Name and Address <b>Autumn Transport 618 Perkins Jones Road Warren, OH 44483</b>		CONTACT <b>Irwin Dobrushin</b>		TELEPHONE NUMBER (Include Area Code) <b>412-374-6094</b>		EPA I.D. NUMBER <b>NA</b>		SIGNATURE - Authorized consignee acknowledging waste receipt <i>[Signature]</i>		DATE <b>9-24-98</b>					
2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number $\rightarrow$		EPA MANIFEST NUMBER <b>NA</b>		CONTACT <b>Rod Perdonovich</b>		SHIPPING DATE <b>9/21/98</b>		TELEPHONE NUMBER (Include Area Code) <b>1-800-447-2116</b>		10. CERTIFICATION This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.					
SIGNATURE - Authorized carrier acknowledging waste receipt <i>[Signature]</i>		DATE <b>9-21-98</b>		AUTHORIZED SIGNATURE <i>[Signature]</i>		TITLE <b>Irwin Dobrushin Sr. Ind. Hygiene</b>		DATE <b>9/21/98</b>									
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)		12. DOT LABEL "RADIOACTIVE"		13. TRANSPORT INDEX		14. PHYSICAL AND CHEMICAL FORM		15. INDIVIDUAL RADIONUCLIDES		16. TOTAL PACKAGE ACTIVITY MBq mCi		17. LSA/SCO CLASS		18. TOTAL WEIGHT OR VOLUME (Use appropriate units)		19. IDENTIFICATION NUMBER OF PACKAGE	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA		1		Solid-/ oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		3.1171E+00 8.4246E-02		LSA-I		3070.0000 LBS; 30.0000 FT		BV-3000	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA		1		Solid-/ oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		6.0482E+00 1.3644E-01		LSA-I		2905.0000 LBS; 30.0000 FT		BV-3009	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA		1		Solid-/ oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		3.0001E+00 8.1083E-02		LSA-I		2703.0000 LBS; 30.0000 FT		BV-3010	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA		1		Solid-/ oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		3.4893E+00 9.4306E-02		LSA-I		2936.0000 LBS; 30.0000 FT		BV-3011	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA		1		Solid-/ oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		6.6646E+00 1.6013E-01		LSA-I		2636.0000 LBS; 30.0000 FT		BV-3012	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA		1		Solid-/ oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		8.0671E+00 2.1776E-01		LSA-I		3119.0000 LBS; 30.0000 FT		BV-3013	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA		1		Solid-/ oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		3.3419E+00 9.0321E-02		LSA-I		3070.0000 LBS; 30.0000 FT		BV-3001	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA		1		Solid-/ oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		3.7741E+00 1.0200E-01		LSA-I		2624.0000 LBS; 30.0000 FT		BV-3002	
FOR CONSIGNEE USE ONLY				<input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Shipment.				20. TERMS AND CONDITION A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material ___ is (or) ___ is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1. B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc. C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST) are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license. D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST), or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.									





<b>FORM 541</b>  <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST</b>  <b>CONTAINER AND WASTE DESCRIPTION</b>  Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste	Envirocare of Utah, Inc.	<b>1. MANIFEST TOTALS</b>						<b>2. MANIFEST NUMBER</b> 0674-04=023			
	NUMBER OF PACKAGES/ DISPOSAL CONTAINERS		NET WASTE VOLUME		NET WASTE WEIGHT		SPECIAL NUCLEAR MATERIAL (grams)				
							U-233	U-235	Pu	TOTAL	
	<b>14</b>		m3 <b>11.8930</b> ft3 <b>420.0000</b>		kg <b>18.478301</b> ton <b>20.370</b>		<b>NP</b>	<b>2.7520E+01</b> 14 Packages	<b>NP</b>	<b>2.7520E+01</b>	
	<b>ACTIVITY</b>										
			ALL NUCLIDES		TRITIUM		C-14	Tc-99	I-129	SOURCE	
MBq		<b>3.7626E+01</b>		<b>NP</b>		<b>NP</b>	<b>NP</b>	<b>NP</b>	(kgs)	<b>NA</b>	
mCi		<b>1.0169E+00</b>		<b>NP</b>		<b>NP</b>	<b>NP</b>	<b>NP</b>	(tons)	<b>NA</b>	
<b>4. SHIPPER NAME</b> Westinghouse Electric Company											
<b>SHIPMENT ID NUMBER</b> <del>NA</del> 0674-04-023											

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16 WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C		
5 CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6 CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7 VOLUME (m3) (ft3)	8 WASTE AND CONTAINER WEIGHT (kg) (ton)	9 SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. PHYSICAL DESCRIPTION			13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)		14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION				
					ALPHA	BETA-GAMMA	WASTE DESCRIPTOR (See Note 2 & Note 2A)	APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT								
											RADIONUCLIDES				pCi/gm	MBq	mCi	
BV-3000/37-000497-16(A)	19-C Cajun Bag	0.8495	1,392.6287	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100	100	oxide/NA	0.00	Th-228	5.82000E-01	3.0044E-02	8.1200E-04	AS	
		30.0000	1.6360	<2.000E-02	<1.000E+02	<1.000E+02							Th-232 [2.3300E-01 g]	4.76000E-01	2.4631E-02	6.6300E-04		Th-234
											U-234 [1.1900E-08 g]	5.36000E+01	2.7760E+00	7.6000E-02				
											U-235 [1.6600E+00 g]	2.41000E+00	1.2432E-01	3.3600E-03				
											U-238 [3.1700E+01 g]	7.61000E+00	4.0700E-02	1.1000E-03				
											Subtotal			3.1171E+00	8.4246E-02			
											Total			3.1171E+00	8.4246E-02			
BV-3001/37-000497-16(A)	19-C Cajun Bag	0.8495	1,392.6287	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100	100	oxide/NA	0.00	Th-228	1.19000E+00	6.6870E-03	1.6100E-04	AS	
		30.0000	1.6360	<2.000E-02	<1.000E+02	<1.000E+02							Th-232 [4.6900E-01 g]	9.96000E-01	4.6610E-02	1.2300E-03		Th-234
											U-234 [2.2200E-08 g]	1.09000E+02	2.7602E+00	7.4600E-02				
											U-235 [2.8800E+00 g]	4.91000E+00	(2.3061E-01)	(6.2300E-03)				
											U-238 [6.8700E+01 g]	1.66000E+01	7.2890E-02	1.9700E-03				
											Subtotal			3.1114E+00	8.4091E-02			
											Total			3.1114E+00	8.4091E-02			
BV-3002/37-000497-16(A)	19-C Cajun Bag	0.8495	1,190.2266	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100	100	oxide/NA	0.00	Th-228	7.74000E-01	3.2819E-02	8.8700E-04	AS	
		30.0000	1.3120	<2.000E-02	<1.000E+02	<1.000E+02							Th-232 [2.7600E-01 g]	6.08000E-01	2.6826E-02	7.2600E-04		Th-234
											U-234 [1.3000E-08 g]	6.84000E+01	3.0166E+00	8.1600E-02				
											U-235 [1.7000E+00 g]	3.08000E+00	1.3679E-01	3.6700E-03				
											U-238 [3.4600E+01 g]	9.72000E+00	4.2920E-01	1.1600E-02				
											Subtotal			3.7741E+00	1.0200E-01			
											Total			3.7741E+00	1.0200E-01			

**NOTE 1: Container Description Codes. For containers/waste requiring disposal in approved structural over-packs the numerical code must be followed by "-OP."**

1 Wooden Box or Crate	9. Demineralizer
2 Metal Box	10 Gas Cylinder
3 Plastic Drum or Pail	11. Bulk, Unpackaged Waste
4 Metal Drum or Pail	12. Unpackaged Components
5 Metal Tank or Liner	13 High Integrity Container
6 Concrete Tank or Liner	19. Other Describe in Item 6, or additional page
7 Polyethylene Tank or Liner	
8 Fiberglass Tank or Liner	

**Note 1A: Bulk Packaging Description Codes (Choose one code as may be applicable.)**

A Gondola
B Intermodal
C End-dump
D Roll-off
E Seavan

**NOTE 2: Waste Descriptor Codes. (Choose up to three which predominate by volume.)**

20 Charcoal	29 Demolition Rubble	38 Evaporator Bottoms/Sludges/ Concentrates
21 Incinerator Ash	30 Cation Ion-exchange Media	39 Compactible Trash
22 Soil	31 Anion Ion-exchange Media	40 Noncompactible Trash
23 Gas	32 Mixed Bed Ion-exchange Media	41 Animal Carcass
24 Oil	33 Contaminated Equipment	42 Biological Material (except animal carcass)
25 Aqueous Liquid	34 Organic Liquid (except oil)	43 Activated Material
26 Filter Media	35 Glassware or Labware	59 Other Describe in item 11, or additional page
27 Mechanical Filter	36 Sealed Source/Device	
28 EPA or State Hazardous	37 Paint or Plating	

**Note 2A: Specific Waste Descriptions (Choose all applicable codes.)**

G Dewatered
H Solid
I Combustible
J Non-combustible
K Air Filtration Filters
L Asbestos

**Note 3: Solidification and Stabilization Media Codes. (Choose up to three which predominate by volume.) For media meeting disposal site structural stability requirements, the numerical code must be followed by "-S" and the media vendor and brand name must also be identified in item 13. Code 100=NONE REQUIRED**

<b>Solidification</b>	94. Vinyl Ester Styrene
90 Cement	99. Other Describe in item 13, or additional page
91 Concrete (encapsulation)	
92 Bitumen	
93 Vinyl Chloride	100 None Required

# UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
**0674-04=023**

3. PAGE 2 OF 4 PAGE(S)

## CONTAINER AND WASTE DESCRIPTION (CONTINUATION)

DISPOSAL CONTAINER DESCRIPTION							WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16 WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class E C-Class C		
5 CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6 CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7 VOLUME (m3) (R3)	8 WASTE AND CONTAINER WEIGHT (kg) (tgn)	9 SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10 SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11 PHYSICAL DESCRIPTION		12 APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		13 SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)		14 CHEMICAL DESCRIPTION		15 RADIOLOGICAL DESCRIPTION				
					ALPHA	BETA-GAMMA	WASTE DESCRIPTOR (See Note 2 & Note 2A)				CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT						
															RADIONUCLIDES			pCi/gm	MBq
BV-3003/37-000497-16(A)	19-C Cajun Bag	0.8496	1,286.9346	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H		0.8496	100	100	oxide/NA	0.00	Th-228	[2.8300E-01 g]	7.07000E-01	3.3670E-02	9.1000E-04	AS
		Th-232		6.77000E-01	2.7491E-02	7.4300E-04													
		30.0000	1.4176	<2.000E-02	<1.000E+02	<1.000E+02			30.0000					U-234	[1.3400E-08 g]	6.49000E+01	3.0896E+00	8.3600E-02	
														U-236	[1.7400E+00 g]	2.92000E+00	1.3912E-01	3.7600E-03	
														U-238	[3.5600E+01 g]	9.23000E+00	4.4030E-01	1.1900E-02	
														Subtotal			3.8674E+00	1.0462E-01	
														Total			3.8674E+00	1.0462E-01	
BV-3004/37-000497-16(A)	19-C Cajun Bag	0.8496	1,247.8327	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H		0.8496	100	100	oxide/NA	0.00	Th-232	[2.7200E-01 g]	6.71000E-01	(2.6381E-02)	(7.1300E-04)	AS
		Th-234		2.86000E+00	1.3172E-01	3.6600E-03													
		30.0000	1.3766	<2.000E-02	<1.000E+02	<1.000E+02			30.0000					U-234	[1.2800E-08 g]	6.42000E+01	(2.9637E+00)	(8.0100E-02)	
														U-236	[1.6700E+00 g]	2.89000E+00	(1.3367E-01)	(3.6100E-03)	
														U-238	[3.4000E+01 g]	9.12000E+00	4.2180E-01	1.1400E-02	
														Subtotal			5.5362E-01	1.4960E-02	
														Total			5.5362E-01	1.4960E-02	
BV-3006/37-000497-16(A)	19-C Cajun Bag	0.8496	1,202.0199	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H		0.8496	100	100	oxide/NA	0.00	Th-228		5.29000E-01	2.3310E-02	6.3000E-04	AS
		Th-232	[1.9600E-01 g]	4.33000E-01	1.9066E-02	5.1600E-04													
		30.0000	1.3260	<2.000E-02	<1.000E+02	<1.000E+02			30.0000					Th-234		2.16000E+00	9.6090E-02	2.6700E-03	
														U-234	[9.2900E-09 g]	4.86000E+01	2.1386E+00	6.7800E-02	
														U-236	[1.2100E+00 g]	2.19000E+00	(9.6670E-02)	(2.6100E-03)	
														U-238	[2.4600E+01 g]	6.91000E+00	(3.0461E-01)	(8.2300E-03)	
														Subtotal			2.2761E+00	6.1616E-02	
														Total			2.2761E+00	6.1616E-02	
BV-3006/37-000497-16(A)	19-C Cajun Bag	0.8496	1,384.8176	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H		0.8496	100	100	oxide/NA	0.00	Th-228		6.91000E-01	(3.6446E-02)	(9.6800E-04)	AS
		Th-232	[2.9800E-01 g]	5.66000E-01	2.8971E-02	7.8300E-04													
		30.0000	1.6266	<2.000E-02	<1.000E+02	<1.000E+02			30.0000					Th-234		2.82000E+00	1.4467E-01	3.9100E-03	
														U-234	[1.4100E-08 g]	6.36000E+01	(3.2660E+00)	(8.8000E-02)	
														U-236	[1.8400E+00 g]	2.86000E+00	1.4662E-01	3.9600E-03	
														U-238	[3.7400E+01 g]	9.03000E+00	4.6260E-01	1.2600E-02	
														Subtotal			7.8266E-01	2.1163E-02	
														Total			7.8266E-01	2.1163E-02	
BV-3007/37-000497-16(A)	19-C Cajun Bag	0.8496	1,392.9823	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H		0.8496	100	100	oxide/NA	0.00	Th-228		8.06000E-01	4.1440E-02	1.1200E-03	AS
		Th-232	[3.6000E-01 g]	6.68000E-01	3.3929E-02	9.1700E-04													
		30.0000	1.6366	<2.000E-02	<1.000E+02	<1.000E+02			30.0000					Th-234		3.28000E+00	1.6946E-01	4.6800E-03	
														U-234	[1.6600E-08 g]	7.39000E+01	(3.8110E+00)	(1.0300E-01)	
														U-236	[2.1600E+00 g]	3.33000E+00	1.7168E-01	4.6400E-03	

# UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
**0674-04-023**

3. PAGE 3 OF 4 PAGE(S)

## CONTAINER AND WASTE DESCRIPTION (CONTINUATION)

DISPOSAL CONTAINER DESCRIPTION							WASTE DESCRIPTION AND WASTE TYPE IN CONTAINER							16 WASTE CLASSIFICATION AS-Class A Stable AU-Class B Unstable B-Class B C-Class C			
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION					
					ALPHA	BETA-GAMMA	11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (ft3)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT					
												RADIONUCLIDES			pCi/gm	MBq	mCi
													U-238 [4.3700E+01 g]	1.05000E+01	5.4390E-01	1.4700E-02	
												Subtotal		9.6041E-01	2.6967E-02		
												Total		9.6041E-01	2.6967E-02		
BV-3008/37-000497-16(A)	19-C Cajun Bag	0.8496	1,412.4867	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H		100	oxide/NA	0.00	Th-228	6.01000E-01	3.1460E-02	8.5000E-04	AS	
		30.0000	1.6670	<2.000E-02	<1.000E+02	<1.000E+02		0.8496	100			Th-232 [2.6600E-01 g]	4.91000E-01	2.6678E-02	6.9400E-04		
												Th-234	2.46000E+00	1.2839E-01	3.4700E-03		
												U-234 [1.2500E-08 g]	6.62000E+01	2.8860E+00	7.8000E-02		
												U-235 [1.6300E+00 g]	2.49000E+00	(1.3024E-01)	(3.6200E-03)		
												Subtotal		3.4822E+00	9.4114E-02		
												Total		3.4822E+00	9.4114E-02		
BV-3009/37-000497-16(A)	19-C Cajun Bag	0.8496	1,319.6003	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H		100	oxide/NA	0.00	Th-228	8.97000E-01	4.3660E-02	1.1800E-03	AS	
		30.0000	1.4545	<2.000E-02	<1.000E+02	<1.000E+02		0.8496	100			Th-232 [3.6900E-01 g]	7.33000E-01	(3.6816E-02)	(9.6800E-04)		
												Th-234	3.66000E+00	1.7871E-01	4.8300E-03		
												U-234 [1.7400E-08 g]	8.24000E+01	4.0330E+00	1.0900E-01		
												U-235 [2.2700E+00 g]	3.71000E+00	(1.8362E-01)	(4.9600E-03)		
												Subtotal		4.8289E+00	1.3061E-01		
												Total		4.8289E+00	1.3061E-01		
BV-3010/37-000497-16(A)	19-C Cajun Bag	0.8496	1,226.0603	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H		100	oxide/NA	0.00	Th-228	6.76000E-01	2.6122E-02	7.0600E-04	AS	
		30.0000	1.3616	<2.000E-02	<1.000E+02	<1.000E+02		0.8496	100			Th-232 [2.2000E-01 g]	4.70000E-01	(2.1349E-02)	(6.7700E-04)		
												Th-234	2.36000E+00	1.0682E-01	2.8600E-03		
												U-234 [1.0400E-08 g]	6.28000E+01	(2.3976E+00)	(6.4800E-02)		
												U-235 [1.3600E+00 g]	2.38600E+00	(1.0804E-01)	(2.9200E-03)		
												Subtotal		1.3194E-01	3.6660E-03		
												Total		1.3194E-01	3.6660E-03		
BV-3011/37-000497-16(A)	19-C Cajun Bag	0.8496	1,331.2937	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H		100	oxide/NA	0.00	Th-228	6.14000E-01	3.0266E-02	8.1800E-04	AS	
		30.0000	1.4676	<2.000E-02	<1.000E+02	<1.000E+02		0.8496	100			Th-232 [2.6600E-01 g]	5.01000E-01	(2.4716E-02)	(6.6800E-04)		
												Th-234	2.60000E+00	1.2368E-01	3.3400E-03		
												U-234 [1.2000E-08 g]	6.64000E+01	2.7898E+00	7.6400E-02		
												U-235 [1.6700E+00 g]	2.54000E+00	(1.2606E-01)	(3.3800E-03)		
												Subtotal		2.9436E+00	7.9668E-02		
												Total		2.9436E+00	7.9668E-02		
												U-238 [3.1900E+01 g]	8.02000E+00	(3.9690E-01)	(1.0700E-02)		
												Subtotal		2.9436E+00	7.9668E-02		
												Total		2.9436E+00	7.9668E-02		

## UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
**0674-04-023**

3. PAGE 4 OF 4 PAGE(S)

### CONTAINER AND WASTE DESCRIPTION (CONTINUATION)

DISPOSAL CONTAINER DESCRIPTION							WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER							16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C			
5 CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6 CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7 VOLUME <u>(m3)</u> (ft3)	8 WASTE AND CONTAINER WEIGHT <u>(kg)</u> (ton)	9 SURFACE RADIATION LEVEL <u>mSv/hr</u> mrem/hr	10 SURFACE CONTAMINATION <u>MBq/100 cm2</u> dpm/100 cm2		11 WASTE DESCRIPTOR (See Note 2 & Note 2A)	12 APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (ft3)	13 SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14 CHEMICAL DESCRIPTION  CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0 1%	15. RADIOLOGICAL DESCRIPTION  INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT					
					ALPHA	BETA-GAMMA						RADIONUCLIDES			pCi/gm	MBq	mCi
BV-3012/37-000497-16(A)	19-C Cajun Bag	0.8496	1,286.9346	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8496	100	oxide/NA	0.00	Th-228		9.46000E-01	4.6140E-02	1.2200E-03	AS
													Th-232 [3.7900E-01 g]	7.73000E-01	(3.6816E-02)	(9.9600E-04)	
		30.0000	1.4176	<2.000E-02	<1.000E+02	<1.000E+02		00.0000					Th-234		3.86000E+00	1.8389E-01	
												U-234	[1.7900E-08 g]	8.69000E+01	(4.6140E+00)	(1.2200E-01)	
												U-235	[2.3300E+00 g]	3.92000E+00	1.8648E-01	6.0400E-03	
												U-238	[4.7600E+01 g]	1.24000E+01	5.8830E-01	1.6900E-02	
												Subtotal			1.0038E+00	2.7130E-02	
												Total			1.0038E+00	2.7130E-02	
BV-3013/37-000497-16(A)	19-C Cajun Bag	0.8496	1,414.7647	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8496	100	oxide/NA	0.00	Th-228		1.33000E+00	6.9930E-02	1.8900E-03	AS
													Th-232 [5.8900E-01 g]	1.09000E+00	(6.6980E-02)	(1.6400E-03)	
		30.0000	1.6696	<2.000E-02	<1.000E+02	<1.000E+02		30.0000					Th-234		6.44000E+00	2.8627E-01	
												U-234		1.23000E+02	6.4380E+00	1.7400E-01	
												U-235	[3.6200E+00 g]	6.62000E+00	(2.9304E-01)	(7.9200E-03)	
												U-238	[7.3700E+01 g]	1.74000E+00	(9.1390E-01)	(2.4700E-02)	
												Subtotal			6.7932E+00	1.8360E-01	
												Total			6.7932E+00	1.8360E-01	
Shipment Totals		11.8930	18,478.9011														
		420.0000	20.3696														

# UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST ISOTOPES REPORT

For Manifest # 0674-04=023  
Envirocare of Utah, Inc.

<u>Isotope</u>	<u>Total Activity</u>	
	<u>(MBq)</u>	<u>(mCi)</u>
Th-228	4.4888E-01	1.2132E-02
Th-232	4.3405E-01	1.1731E-02
Th-234	2.1675E+00	5.8580E-02
U-234	4.6868E+01	1.2667E+00
U-235	2.2045E+00	5.9580E-02
U-238	5.9392E+00	1.6052E-01

<b>FORM 540</b> <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST</b> <b>SHIPPING PAPER</b>		<b>Envirocare of Utah, Inc.</b>		5. SHIPPER - NAME AND FACILITY Westinghouse Electric Company - SMP RD #4 Box 333 Westinghouse Road Blairsville, PA 15717				SHIPMENT I.D. NUMBER 0674-04-24		7. FORM 540 AND 540A PAGE 1 OF 2 PAGE(S) FORM 541 AND 541A 4 PAGE(S) FORM 542 AND 542A None PAGE(S) ADDITIONAL INFORMATION PAGE(S)		8. MANIFEST NUMBER (Use this number on all continuation pages) 0674-04-024	
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) 412-374-4019				UTAH DISPOSAL PERMIT NUMBER NA		SHIPMENT NUMBER 0674-04-024		<input checked="" type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR		9. CONSIGNEE - Name and Facility Address <b>Envirocare of Utah, Inc.</b> <b>Clive Disposal Site</b> <b>Interstate 80, Exit 49</b> <b>Clive, UT 84029</b>		CONTACT <b>Shipping and Receiving</b> TELEPHONE NUMBER (Include Area Code) <b>(435) 884-0155</b>	
ORGANIZATION Westinghouse Electric Company				CONTACT Irwin DObrushin				TELEPHONE NUMBER (Include Area Code) 412-374-6094		SIGNATURE - <i>Irwin DObrushin</i> <i>Authorized consignee acknowledging waste receipt</i>		DATE <i>9-21-98</i>	
2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 14		6. CARRIER - Name and Address <b>Autumn Transport</b> 518 Perkins Jones Road Warren, OH 44483				EPA I.D. NUMBER NA		SHIPPING DATE 9/21/98		10. CERTIFICATION This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.	
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number		EPA MANIFEST NUMBER NA		CONTACT Rod Perdonovich				TELEPHONE NUMBER (Include Area Code) 1-800-447-2116		SIGNATURE - <i>Rod Perdonovich</i> <i>Authorized carrier acknowledging waste receipt</i>		DATE <i>9/21/98</i>	
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)		12. DOT LABEL "RADIOACTIVE"	13. TRANSPORT INDEX	14. PHYSICAL AND CHEMICAL FORM		15. INDIVIDUAL RADIONUCLIDES		16. TOTAL PACKAGE ACTIVITY MBq mCi		17. LSA/SCO CLASS	18. TOTAL WEIGHT OR VOLUME (Use appropriate units)	19. IDENTIFICATION NUMBER OF PACKAGE	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA	1	Solid-/ oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		1.2440E+00 3.3622E-02		LSA-I	3087.0000 LBS; 30.0000 FT	BV-3014	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA	1	Solid-/ oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		5.3213E+00 1.4382E-01		LSA-I	3037.0000 LBS; 30.0000 FT	BV-3023	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA	1	Solid-/ oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		5.8386E+00 1.5780E-01		LSA-I	2973.0000 LBS; 30.0000 FT	BV-3024	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA	1	Solid-/ oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		5.3709E+00 1.4516E-01		LSA-I	3100.0000 LBS; 30.0000 FT	BV-3025	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA	1	Solid-/ oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		7.8170E+00 2.1127E-01		LSA-I	3123.0000 LBS; 30.0000 FT	BV-3026	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA	1	Solid-/ oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		5.8819E+00 1.5897E-01		LSA-I	3188.0000 LBS; 30.0000 FT	BV-3027	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA	1	Solid-/ oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		4.2527E+00 1.1494E-01		LSA-I	3091.0000 LBS; 30.0000 FT	BV-3015	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA	1	Solid-/ oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		5.9108E+00 1.5975E-01		LSA-I	3102.0000 LBS; 30.0000 FT	BV-3016	
FOR CONSIGNEE USE ONLY <input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Shipment.				20. TERMS AND CONDITION A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material ___ is (or) ___ is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1. B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc. C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST) are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license. D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST,) or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.									





# UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

## CONTAINER AND WASTE DESCRIPTION

Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste

### 1. MANIFEST TOTALS

NUMBER OF PACKAGES/ DISPOSAL CONTAINERS	NET WASTE VOLUME	NET WASTE WEIGHT	SPECIAL NUCLEAR MATERIAL (grams)			
			U-233	U-235	Pu	TOTAL
14	m3 11.8930	kg 19,035.005	NP	3.3990E+01 14 Packages	NP	3.3990E+01
	ft3 420.0000	ton 20.983				
ACTIVITY						
ALL NUCLIDES		TRITIUM	C-14	Tc-99	I-129	SOURCE
MDa	3.4484E+01	NP	NP	NP	NP	(kgs) NA
MD	9.3200E-01	NP	NP	NP	NP	(tons) NA

2. MANIFEST NUMBER  
0674-04-024

3. PAGE 1 OF 4 PAGE(S)

4. SHIPPER NAME  
Westinghouse Electric Company

SHIPMENT ID NUMBER  
0674-04-24

### DISPOSAL CONTAINER DESCRIPTION

### WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER

5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm <sup>2</sup> ) (dpm/100 cm <sup>2</sup> )		11. PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION				16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C	
					ALPHA	BETA-GAMMA	11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT					
												RADIONUCLIDES					pCi/gm
BV-3014/37-000497-15(A)	19-C Cajun Bag	0.8495	1,400.2397	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100	oxide/NA	0.00	Th-228	7.44000E-01	3.8480E-02	1.0400E-03	AS	
		30.0000	1.5435	<2.000E-02	<1.000E+02	<1.000E+02		30.0000	100			Th-232 [3.2500E-01]	6.08000E-01	3.1524E-02	8.5200E-04		
												Th-234	3.03000E+00	1.5725E-01	4.2500E-03		
												U-234	[1.5300E-08 g]	6.83000E+01	(3.5409E-01)	(9.5700E-03)	
												U-235	[2.0000E+00 g]	3.08000E+00	1.5947E-01	4.3100E-03	
												U-238	[4.0600E+01 g]	9.71000E+00	5.0320E-01	1.3600E-02	
												Subtotal		8.8992E-01	2.4052E-02		
												Total		8.8992E-01	2.4052E-02		
BV-3015/37-000497-15(A)	19-C Cajun Bag	0.8495	1,402.0541	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100	oxide/NA	0.00	Th-228	7.12000E-01	3.7000E-02	1.0000E-03	AS	
		30.0000	1.5455	<2.000E-02	<1.000E+02	<1.000E+02		30.0000	100			Th-232 [3.1100E-01]	5.82000E-01	(3.0229E-02)	(8.1700E-04)		
												Th-234	2.91000E+00	1.5096E-01	4.0800E-03		
												U-234	[1.4700E-08 g]	6.54000E+01	3.3966E+00	9.1800E-02	
												U-235	[1.9200E+00 g]	2.95000E+00	(1.5318E-01)	(4.1400E-03)	
												U-238	[3.9000E+01 g]	9.30000E+00	(4.8470E-01)	(1.3100E-02)	
												Subtotal		3.5846E+00	9.6880E-02		
												Total		3.5846E+00	9.6880E-02		
BV-3016/37-000497-15(A)	19-C Cajun Bag	0.8495	1,407.0436	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100	oxide/NA	0.00	Th-228	9.86000E-01	5.1430E-02	1.3900E-03	AS	
		30.0000	1.5510	<2.000E-02	<1.000E+02	<1.000E+02		30.0000	100			Th-232 [4.3200E-01]	8.05000E-01	4.1810E-02	1.1300E-03		
												Th-234	4.02000E+00	2.0942E-01	5.6600E-03		
												U-234	[2.0400E-08 g]	9.06000E+01	(4.7360E+00)	(1.2800E-01)	
												U-235	[2.6600E+00 g]	4.08000E+00	2.0239E-01	5.4700E-03	
												U-238	[5.4100E+01 g]	1.29000E+01	6.6970E-01	1.8100E-02	
												Subtotal		1.1748E+00	3.1750E-02		
												Total		1.1748E+00	3.1750E-02		

NOTE 1: Container Description Codes. For containers/waste requiring disposal in approved structural overpacks the numerical code must be followed by "-OP."

- 1 Wooden Box or Crate
- 2 Metal Box
- 3 Plastic Drum or Pail
- 4 Metal Drum or Pail
- 5 Metal Tank or Liner
- 6 Concrete Tank or Liner
- 7 Polyethylene Tank or Liner
- 8 Fiberglass Tank or Liner
- 9 Demineralizer
- 10 Gas Cylinder
- 11 Bulk, Unpackaged Waste
- 12 Unpackaged Components
- 13 High Integrity Container
- 19 Other Describe in Item 6, or additional page

Note 1A: Bulk Packaging Description Codes (Choose one code as may be applicable.)

- A Gondola
- B Intermodal
- C End-dump
- D Roll-off
- E Seavan

NOTE 2: Waste Descriptor Codes. (Choose up to three which predominate by volume.)

- 20 Charcoal
- 21 Incinerator Ash
- 22 Soil
- 23 Gas
- 24 Oil
- 25 Aqueous Liquid
- 26 Filter Media
- 27 Mechanical Filter
- 28 EPA or State Hazardous
- 29 Demolition Rubble
- 30 Cation Ion-exchange Media
- 31 Anion Ion-exchange Media
- 32 Mixed Bed Ion-exchange Media
- 33 Contaminated Equipment
- 34 Organic Liquid (except oil)
- 35 Glassware or Labware
- 36 Sealed Source/Device
- 37 Paint or Plating
- 38 Evaporator Bottoms/Sludges/ Concentrates
- 39 Compactible Trash
- 40 Noncompactible Trash
- 41 Animal Carcass
- 42 Biological Material (except animal carcass)
- 43 Activated Material
- 59 Other Describe in item 11, or additional page

Note 2A: Specific Waste Descriptions (Choose all applicable codes.)

- G Dewatered
- H Solid
- I Combustible
- J Non-combustible
- K Air Filtration Filters
- L Asbestos

Note 3: Solidification and Stabilization Media Codes. (Choose up to three which predominate by volume.) For media meeting disposal site structural stability requirements, the numerical code must be followed by "-S" and the media vendor and brand name must also be identified in item 13. Code 100=NONE REQUIRED

- 90 Cement
- 91 Concrete (encapsulation)
- 92 Bitumen
- 93 Vinyl Chloride
- 94 Vinyl Ester Styrene
- 99 Other Describe in item 13, or additional page
- 100 None Required.

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
**0674-04-024**

3. PAGE 2 OF 4 PAGE(S)

**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION

WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER

5 CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6 CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7 VOLUME  (m3) (ft3)	8 WASTE AND CONTAINER WEIGHT  (kg) (ton)	9 SURFACE RADIATION LEVEL  mSv/hr mrem/hr	10 SURFACE CONTAMINATION  MBq/100 cm <sup>2</sup> dpm/100 cm <sup>2</sup>		11 WASTE DESCRIPTOR (See Note 2 & Note 2A)	12 APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13 SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION				16. WASTE CLASSIFI- CATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C	
					ALPHA	BETA RAYING				CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT					
												RADIONUCLIDES	pCi/gm	MBq	mCi		
BV-3017/37-000497-15(A)	19-C Cajun Bag	0.8495	1,227.8746	<2.000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100 100	oxide/NA	0.00	Th-228	1.0400E+00	4.7360E-02	1.2800E-03	AS	
		30.0000	1.3535	<2.000E-02	<1.000E+02	<1.000E+02		30.0000	Th-232 [4.0000E-01 ]			8.53000E+00	(3.8850E-02)	(1.0500E-03)	Th-234		4.26000E+00
												U-234	[1.8900E-08 g]	9.59000E+01	4.3660E+00	1.1800E-01	
												U-235	[2.4600E+00 g]	4.32000E+00	(1.9647E-01)	(5.3100E-03)	
												U-238	[5.0000E+01 g]	1.36000E+01	(6.2160E-01)	(1.6800E-02)	
												Subtotal			4.6072E+00	1.2452E-01	
												Total			4.6072E+00	1.2452E-01	
BV-3018/37-000497-15(A)	19-C Cajun Bag	0.8495	1,261.8941	<2.000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100 100	oxide/NA	0.00	Th-228	1.10000E+00	5.1060E-02	1.3800E-03	AS	
		30.0000	1.3910	<2.000E-02	<1.000E+02	<1.000E+02		30.0000	Th-232 [4.3100E-01 ]			8.95000E-01	4.1810E-02	1.1300E-03	Th-234		4.40000E+00
												U-234	[2.0400E-08 g]	1.01000E+01	(4.6990E+00)	(1.2700E-01)	
												U-235	[2.6500E+00 g]	4.53000E+00	2.1201E-01	5.7300E-03	
												U-238	[5.4000E+01 g]	1.43000E+01	6.6970E-01	1.8100E-02	
												Subtotal			1.1836E+00	3.1990E-02	
												Total			1.1836E+00	3.1990E-02	
BV-3019/37-000497-15(A)	19-C Cajun Bag	0.8495	1,164.8253	<2.000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100 100	oxide/NA	0.00	Th-228	9.64000E-01	4.1440E-02	1.1200E-03	AS	
		30.0000	1.2840	<2.000E-02	<1.000E+02	<1.000E+02		30.0000	Th-232 [3.5000E-01 ]			7.88000E-01	(3.4003E-02)	(9.1900E-04)	Th-234		3.93000E+00
												U-234	[1.6500E-08 g]	8.86000E+01	3.8110E+00	1.0300E-01	
												U-235	[2.1500E+00 g]	3.99000E+00	(1.7205E-01)	(4.6500E-03)	
												U-238	[4.3800E+01 g]	1.26000E+01	(5.4390E-01)	(1.4700E-02)	
												Subtotal			4.0223E+00	1.0871E-01	
												Total			4.0223E+00	1.0871E-01	
BV-3020/37-000497-15(A)	19-C Cajun Bag	0.8495	1,285.0273	<2.000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100 100	oxide/NA	0.00	Th-228	1.01000E+00	4.8100E-02	1.3000E-03	AS	
		30.0000	1.4165	<2.000E-02	<1.000E+02	<1.000E+02		30.0000	Th-232 [4.0600E-01 ]			8.27000E-01	3.9220E-02	1.0600E-03	Th-234		4.13000E+00
												U-234	[1.9200E-08 g]	9.30000E+00	(4.4400E+00)	(1.2000E-01)	
												U-235	[2.4900E+00 g]	4.19000E+00	1.9943E-01	5.3900E-03	
												U-238	[5.0800E+01 g]	1.32000E+01	6.2900E-01	1.7000E-02	
												Subtotal			1.0715E+00	2.8960E-02	
												Total			1.0715E+00	2.8960E-02	
BV-3021/37-000497-15(A)	19-C Cajun Bag	0.8495	1,451.4957	<2.000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100 100	oxide/NA	0.00	Th-228	7.10000E-01	3.8110E-02	1.0300E-03	AS	
		30.0000	1.6000	<2.000E-02	<1.000E+02	<1.000E+02		30.0000	Th-232 [3.2100E-01 ]			5.80000E-01	(3.1191E-02)	(8.4300E-04)	Th-234		2.90000E+00
												U-234	[1.5200E-08 g]	6.52000E+01	(3.5076E+00)	(9.4800E-02)	
												U-235	[1.9800E+00 g]	2.94000E+00	(1.5799E-01)	(4.2700E-03)	

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
**0674-04-024**

3. PAGE 3 OF 4 PAGE(S)

**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER						16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C						
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm²) (dpm/100 cm²)		11. WASTE DESCRIPTION (See Note 2 & Note 2A)		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)		14. CHEMICAL FORM/ CHELATING AGENT		15. RADIOLOGICAL DESCRIPTION					
					ALPHA	BETA-GAMMA	WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT								
													RADIONUCLIDES					
													U-238	pCi/gm	MBq	mCi		
													U-238	[4.0200E+01 g]	9.28000E+00	(4.9950E-01)	(1.3500E-02)	
													Subtotal		1.9388E-01	5.2400E-03		
													Total		1.9388E-01	5.2400E-03		
BV-3022/37-000497-15(A)	19-C Cajun Bag	0.8495	1,439.7023	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100	100	oxide/NA	0.00	Th-228		7.23000E-01	3.8480E-02	1.0400E-03	AS
													Th-232	[3.2400E-01 ]	5.90000E-01	3.1487E-02	8.5100E-04	
													Th-234		2.95000E+00	1.5725E-01	4.2500E-03	
													U-234	[1.5300E-08 g]	6.64000E+01	3.5409E+00	9.5700E-02	
													U-235	[1.9900E+00 g]	2.99000E+00	1.5947E-01	4.3100E-03	
		30.0000	1.5870	<2.000E-02	<1.000E+02	<1.000E+02		30.0000					U-238	[4.0600E+01 g]	9.44000E+00	5.0320E-01	1.3600E-02	
													Subtotal		4.4308E+00	1.1975E-01		
													Total		4.4308E+00	1.1975E-01		
BV-3023/37-000497-15(A)	19-C Cajun Bag	0.8495	1,377.5601	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100	100	oxide/NA	0.00	Th-228		9.05000E-01	4.6250E-02	1.2500E-03	AS
													Th-232	[3.8900E-01 ]	7.39000E-01	(3.7740E-02)	(1.0200E-03)	
													Th-234		3.69000E+00	1.8833E-01	5.0900E-03	
													U-234	[1.8300E-08 g]	8.31000E+01	(4.2550E+00)	(1.1500E-01)	
													U-235	[2.3900E+00 g]	3.74000E+00	(1.9092E-01)	(5.1600E-03)	
		30.0000	1.5185	<2.000E-02	<1.000E+02	<1.000E+02		30.0000					U-238	[4.8600E+01 g]	1.18000E+01	(6.0310E-01)	(1.6300E-02)	
													Subtotal		2.3458E-01	6.3400E-03		
													Total		2.3458E-01	6.3400E-03		
BV-3024/37-000497-15(A)	19-C Cajun Bag	0.8495	1,348.5302	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100	100	oxide/NA	0.00	Th-228		1.02000E+00	5.1060E-02	1.3800E-03	AS
													Th-232	[4.2900E-01 ]	8.35000E-01	4.1440E-02	1.1200E-03	
													Th-234		4.16000E+00	2.0757E-01	5.6100E-03	
													U-234	[2.0200E-08 g]	9.36000E+01	4.6620E+00	1.2600E-01	
													U-235	[2.6400E+00 g]	4.22000E+00	2.1053E-01	5.6900E-03	
		30.0000	1.4865	<2.000E-02	<1.000E+02	<1.000E+02		30.0000					U-238	[5.3600E+01 g]	1.33000E+01	6.6600E-01	1.8000E-02	
													Subtotal		5.8386E+00	1.5780E-01		
													Total		5.8386E+00	1.5780E-01		
BV-3025/37-000497-15(A)	19-C Cajun Bag	0.8495	1,406.1364	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100	100	oxide/NA	0.00	Th-228		8.97000E-01	4.6620E-02	1.2800E-03	AS
													Th-232	[3.9300E-01 ]	7.33000E-01	3.8110E-02	1.0300E-03	
													Th-234		3.66000E+00	1.9055E-01	5.1500E-03	
													U-234	[1.8600E-08 g]	8.24000E+01	(4.2920E+00)	(1.1600E-01)	
													U-235	[2.4200E+00 g]	3.71000E+00	(1.9314E-01)	(5.2200E-03)	
		30.0000	1.5500	<2.000E-02	<1.000E+02	<1.000E+02		30.0000					U-238	[4.9200E+01 g]	1.17000E+01	6.1050E-01	1.6500E-02	
													Subtotal		8.8578E-01	2.3940E-02		
													Total		8.8578E-01	2.3940E-02		

## UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-024

3. PAGE 4 OF 4 PAGE(S)

### CONTAINER AND WASTE DESCRIPTION (CONTINUATION)

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C		
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME  (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT  (kg) (ton)	9. SURFACE RADIATION LEVEL  mSv/hr mrem/hr	10. SURFACE CONTAMINATION MBq/100 cm2 dpm/100 cm2		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION						
					ALPHA	BETA-GAMMA				CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT						
												RADIONUCLIDES	pCi/gm	MBq	mCi			
BV-3026/37-000497-15(A)	19-C Cajun Bag	0.8495	1,416.5691	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100 100	oxide/NA	0.00	Th-228	1.32000E+00	6.9560E-02	1.8800E-03	AS		
		30.0000	1.5615	<2.000E-02	<1.000E+02	<1.000E+02	30.0000	30.0000	Th-232 [5.8400E-01 ]	1.08000E+00	5.6610E-02	1.5300E-03	Th-234	5.40000E+00	2.8305E-01		7.6500E-03	
												U-234	1.22000E+02	(6.3640E+00)	(1.7200E-01)			
												U-235 [3.5900E+00 g]	5.47000E+00	2.8712E-01	7.7600E-03			
												U-238 [7.3100E+01 g]	1.73000E+01	(7.5665E-01)	(2.0450E-02)			
												Subtotal		6.9634E-01	1.8820E-02			
												Total		6.9634E-01	1.8820E-02			
BV-3027/37-000497-15(A)	19-C Cajun Bag	0.8495	1,446.0526	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100 100	oxide/NA	0.00	Th-228	9.55000E-01	5.1060E-02	1.3800E-03	AS		
		30.0000	1.5940	<2.000E-02	<1.000E+02	<1.000E+02	30.0000	30.0000	Th-232 [4.3100E-01 ]	7.81000E-01	4.1810E-02	1.1300E-03	Th-234	3.90000E+00	2.0868E-01		5.6400E-03	
												U-234	[2.0300E-08 g]	8.78000E+01	4.6990E+00	1.2700E-01		
												U-235 [2.6500E+00 g]	3.95000E+00	(2.1164E-01)	(5.7200E-03)			
												U-238 [5.3900E+01 g]	1.25000E+01	6.6970E-01	1.8100E-02			
												Subtotal		5.6703E+00	1.5325E-01			
												Total		5.6703E+00	1.5325E-01			
Shipment Totals		11.8930	19,035.0051									[3.3990E+01 g]		3.4484E+01	9.3200E-01			
		420.0000	20.9825															

# UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST ISOTOPES REPORT

For Manifest # 0674-04-024  
Envirocare of Utah, Inc.

<u>Isotope</u>	Total Activity	
	<u>(MBq)</u>	<u>(mCi)</u>
Th-228	6.5601E-01	1.7730E-02
Th-232	5.3583E-01	1.4482E-02
Th-234	2.6374E+00	7.1280E-02
U-234	5.7123E+01	1.5439E+00
U-235	2.7058E+00	7.3130E-02
U-238	8.4305E+00	2.2785E-01

<b>FORM 540</b> <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST</b> <b>SHIPPING PAPER</b>		<b>Envirocare of Utah, Inc.</b>		<b>5. SHIPPER - NAME AND FACILITY</b> Westinghouse Electric Company - SMP RD #4 Box 333 Westinghouse Road Blairsville, PA 15717		<b>SHIPMENT I.D. NUMBER</b> 0674-04-25		<b>7. FORM 540 AND 540A</b> PAGE 1 OF 2 PAGE(S) FORM 541 AND 541A      4 PAGE(S) FORM 542 AND 542A      None PAGE(S) ADDITIONAL INFORMATION      PAGE(S)		<b>8. MANIFEST NUMBER</b> (Use this number on all continuation pages) 0674-04-025							
		<b>1. EMERGENCY TELEPHONE NUMBER</b> (Include Area Code) 412-374-4019		<b>UTAH DISPOSAL PERMIT NUMBER</b> NA		<b>SHIPMENT NUMBER</b> 0674-04-025		<b>COLLECTOR</b>  <b>PROCESSOR</b>		<b>9. CONSIGNEE - Name and Facility Address</b>  <b>Envirocare of Utah, Inc.</b> <b>Clive Disposal Site</b> <b>Interstate 80, Exit 49</b> <b>Clive, UT 84029</b>		<b>CONTACT</b> <b>Shipping and Receiving</b>  <b>TELEPHONE NUMBER (Include Area Code)</b> <b>(435) 884-0155</b>					
<b>ORGANIZATION</b> Westinghouse Electric Company		<b>3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST</b> 14		<b>6. CARRIER - Name and Address</b> Autumn Transport 518 Perkins Jones Road Warren, OH 44483		<b>EPA I.D. NUMBER</b> NA		<b>SIGNATURE</b> <i>[Signature]</i> Authorized consignee acknowledging waste receipt		<b>DATE</b> 9-24-98							
<b>2. IS THIS AN "EXCLUSIVE USE" SHIPMENT?</b> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		<b>4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT?</b> If "Yes," provide Manifest Number →		<b>EPA MANIFEST NUMBER</b> NA		<b>CONTACT</b> Rod Pentonovich		<b>TELEPHONE NUMBER (Include Area Code)</b> 1-800-447-2116		<b>10. CERTIFICATION</b> This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.							
<b>4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT?</b> If "Yes," provide Manifest Number →		<b>EPA MANIFEST NUMBER</b> NA		<b>SIGNATURE</b> -- <i>[Signature]</i> Authorized carrier acknowledging waste receipt		<b>DATE</b> 9/21/98		<b>AUTHORIZED SIGNATURE</b> <i>[Signature]</i>		<b>TITLE</b> Sr. Ind. Hygienist							
<b>11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION</b> (Including proper shipping name, hazard class, UN ID number, and any additional information)		<b>12. DOT LABEL "RADIOACTIVE"</b>		<b>13. TRANSPORT INDEX</b>		<b>14. PHYSICAL AND CHEMICAL FORM</b>		<b>15. INDIVIDUAL RADIONUCLIDES</b>		<b>16. TOTAL PACKAGE ACTIVITY MBq</b>		<b>17. LSA/SCO CLASS</b>		<b>18. TOTAL WEIGHT OR VOLUME (Use appropriate units)</b>		<b>19. IDENTIFICATION NUMBER OF PACKAGE</b>	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA		1		Solid-/ oxide		Th-228 U-235 Th-232 U-238 Th-234 U-234		9.6330E+00 2.6035E-01		LSA-I		3058.0000 LBS; 30.0000 FT		BV-3028	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA		1		Solid-/ oxide		Th-228 U-235 Th-232 U-238 Th-234 U-234		3.1763E+00 8.5847E-02		LSA-I		3038.0000 LBS; 30.0000 FT		BV-3037	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA		1		Solid-/ oxide		Th-228 U-235 Th-232 U-238 Th-234 U-234		4.7238E+00 1.2767E-01		LSA-I		2873.0000 LBS; 30.0000 FT		BV-3038	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA		1		Solid-/ oxide		Th-228 U-235 Th-232 U-238 Th-234 U-234		3.3726E+00 9.1151E-02		LSA-I		2518.0000 LBS; 30.0000 FT		BV-3039	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA		1		Solid-/ oxide		Th-228 U-235 Th-232 U-238 Th-234 U-234		4.8594E+00 1.3134E-01		LSA-I		2523.0000 LBS; 30.0000 FT		BV-3040	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA		1		Solid-/ oxide		Th-228 U-235 Th-232 U-238 Th-234 U-234		8.6088E+00 2.3267E-01		LSA-I		2783.0000 LBS; 30.0000 FT		BV-3041	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA		1		Solid-/ oxide		Th-228 U-235 Th-232 U-238 Th-234 U-234		5.5522E+00 1.5006E-01		LSA-I		3058.0000 LBS; 30.0000 FT		BV-3029	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA		1		Solid-/ oxide		Th-228 U-235 Th-232 U-238 Th-234 U-234		6.3869E+00 1.7262E-01		LSA-I		3077.0000 LBS; 30.0000 FT		BV-3030	
<b>FOR CONSIGNEE USE ONLY</b> <input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Shipment.				<b>20. TERMS AND CONDITION</b> A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material ___ is (or) ___ is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1. B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc. C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST) are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license. D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST,) or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.													



<b>FORM 541</b>  <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST</b>  <b>CONTAINER AND WASTE DESCRIPTION</b>  Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste	Envirocare of Utah, Inc.		1. MANIFEST TOTALS					2. MANIFEST NUMBER <b>0674-04-025</b>			
	NUMBER OF PACKAGES/ DISPOSAL CONTAINERS	NET WASTE VOLUME		NET WASTE WEIGHT		SPECIAL NUCLEAR MATERIAL (grams)					
		U-233	U-235	Pu	TOTAL						
	14	m3 11.8930	kg 17,983.124	NP		3.0050E+01	14 Packages		NP		3.0050E+01
		ft3 420.0000	ton 19.823								
	ACTIVITY										
ALL NUCLIDES		TRITIUM	C-14	Tc-99	I-129		SOURCE				
MBq		6.5234E+01	NP	NP	NP	NP	(kgs)	NA			
mCi		1.7631E+00	NP	NP	NP	NP	(tons)	NA			
										SHIPMENT ID NUMBER <b>0674-04-25</b>	

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16 WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C	
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3/ft3)	8. WASTE AND CONTAINER WEIGHT (kg/ton)	9. SURFACE RADIATION LEVEL (mSv/hr/mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2/dpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)		12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3/FT3)		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)		14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION		
					ALPHA	BETA-GAMMA	WASTE	CONTAINER	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT						
							RADIONUCLIDES	pCi/gm	MBq	mCi							
BV-3028/37-000497-15(A)	19-C Cajun Bag	0.8495	1,387.0856	<2.000E-04	<1.6700E-06	<1.6700E-06	22-H	100	100	oxide/NA	0.00	Th-228	1.63000E+00	8.3990E-02	2.2700E-03	AS	
		30.0000	1.5290	<2.000E-02	<1.000E+02	<1.000E+02						Th-232 [7.0700E-01 ]	1.33000E+00	6.8450E-02	1.8500E-03		Th-234
												U-234 [3.3400E-08 g]	1.50000E+02	7.6960E+00	2.0800E-01		
													U-235 [4.3400E+00 g]	6.76000E+00	3.4706E-01	9.3800E-03	
													U-238 [8.8400E+01 g]	2.13000E+01	1.0952E+00	2.9600E-02	
													Subtotal		9.6330E+00	2.6035E-01	
													Total		9.6330E+00	2.6035E-01	
BV-3029/37-000497-15(A)	19-C Cajun Bag	0.8495	1,387.0856	<2.000E-04	<1.6700E-06	<1.6700E-06	22-H	100	100	oxide/NA	0.00	Th-228	8.92000E-01	4.8100E-02	1.3000E-03	AS	
		30.0000	1.5290	<2.000E-02	<1.000E+02	<1.000E+02						Th-232 [4.0600E-01 ]	7.28000E-01	3.9220E-02	1.0600E-03		Th-234
												U-234 [1.9200E-08 g]	8.19000E+00	4.4400E+00	1.2000E-01		
													U-235 [2.4900E+00 g]	3.69000E+00	(1.9943E-01)	(5.3900E-03)	
													U-238 [5.0800E+01 g]	1.16000E+01	6.2900E-01	1.7000E-02	
													Subtotal		5.3528E+00	1.4467E-01	
													Total		5.3528E+00	1.4467E-01	
BV-3030/37-000497-15(A)	19-C Cajun Bag	0.8495	1,395.7038	<2.000E-04	<1.6700E-06	<1.6700E-06	22-H	100	100	oxide/NA	0.00	Th-228	1.07000E+00	5.5500E-02	1.5000E-03	AS	
		30.0000	1.5385	<2.000E-02	<1.000E+02	<1.000E+02						Th-232 [4.6600E-01 ]	8.76000E-01	(4.5140E-02)	(1.2200E-03)		Th-234
												U-234 [2.2000E-08 g]	9.84000E+01	5.1060E+00	1.3800E-01		
													U-235 [2.8700E+00 g]	4.43000E+00	2.2903E-01	6.1900E-03	
													U-238 [5.8400E+01 g]	1.40000E+01	7.2520E-01	1.9600E-02	
													Subtotal		6.3418E+00	1.7140E-01	
													Total		6.3418E+00	1.7140E-01	

**NOTE 1: Container Description Codes.** For containers/waste requiring disposal in approved structural overpacks the numerical code must be followed by "-OP."

1. Wooden Box or Crate	9. Demineralizer
2. Metal Box	10. Gas Cylinder
3. Plastic Drum or Pail	11. Bulk, Unpackaged Waste
4. Metal Drum or Pail	12. Unpackaged Components
5. Metal Tank or Liner	13. High Integrity Container
6. Concrete Tank or Liner	19. Other Describe in Item 6, or additional page.
7. Polyethylene Tank or Liner	
8. Fiberglass Tank or Liner	

**Note 1A: Bulk Packaging Description Codes** (Choose one code as may be applicable.)

A. Gondola
B. Intermodal
C. End-dump
D. Roll-off
E. Seavan

**NOTE 2: Waste Descriptor Codes.** (Choose up to three which predominate by volume.)

20. Charcoal	29. Demolition Rubble	38. Evaporator Bottoms/Sludges/ Concentrates
21. Incinerator Ash	30. Cation Ion-exchange Media	39. Compactible Trash
22. Soil	31. Anion Ion-exchange Media	40. Noncompactible Trash
23. Gas	32. Mixed Bed Ion-exchange Media	41. Animal Carcass
24. Oil	33. Contaminated Equipment	42. Biological Material (except animal carcass)
25. Aqueous Liquid	34. Organic Liquid (except oil)	43. Activated Material
26. Filter Media	35. Glassware or Labware	59. Other Describe in item 11, or additional page
27. Mechanical Filter	36. Sealed Source/Device	
28. EPA or State Hazardous	37. Paint or Plating	

**Note 2A: Specific Waste Descriptions** (Choose all applicable codes.)

G. Dewatered
H. Solid
I. Combustible
J. Non-combustible
K. Air Filtration Filters
L. Asbestos

**Note 3: Solidification and Stabilization Media Codes.** (Choose up to three which predominate by volume.) For media meeting disposal site structural stability requirements, the numerical code must be followed by "-S" and the media vendor and brand name must also be identified in item 13. Code 100=NONE REQUIRED

<b>Solidification</b>	
90. Cement	94. Vinyl Ester Styrene
91. Concrete (encapsulation)	99. Other Describe in item 13, or additional page
92. Bitumen	
93. Vinyl Chloride	100. None Required.



**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C		
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION	WEIGHT % CHELATING AGENT IF > 0.1%	15. RADIOLOGICAL DESCRIPTION						
					ALPHA	BETA-GAMMA						INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT						
												RADIONUCLIDES	pCi/gm	MBq	mCi			
BV-3031/37-000497-15(A)	19-C Cajun Bag	0.8495	1,239.6680	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100 100	oxide/NA	0.00	Th-228	1.07000E+00	4.8840E-02	1.3200E-03	AS		
		30.0000	1.3665	<2.000E-02	<1.000E+02	<1.000E+02		30.0000				Th-232 [4.1200E-01 ]	8.71000E-01 (3.9960E-02)	1.0800E-03 (1.0800E-03)	5.4000E-03			
												Th-234	4.35000E+00	1.9800E-01	5.4000E-03			
												U-234	9.79000E+01 [1.9500E-08 g]	4.4770E+00	1.2100E-01			
												U-235	4.41000E+00 [2.5300E+00 g]	2.0239E-01	5.4700E-03			
												U-238	5.1600E+01 g]	1.39000E+01	6.4010E-01	1.7300E-02		
												Subtotal		5.3657E+00	1.4502E-01			
												Total		5.3657E+00	1.4502E-01			
BV-3032/37-000497-15(A)	19-C Cajun Bag	0.8495	1,258.7189	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100 100	oxide/NA	0.00	Th-228	4.33000E-01	2.0165E-02	5.4500E-04	AS		
		30.0000	1.3875	<2.000E-02	<1.000E+02	<1.000E+02		30.0000				Th-232 [1.7000E-01 ]	3.53000E-01 (1.6465E-02)	4.4500E-04 (4.4500E-04)	2.2200E-03			
												Th-234	2.68000E+00	8.2140E-02	2.2200E-03			
												U-234	3.97000E+01 [8.0200E-08 g]	1.8537E+00	5.0100E-02			
												U-235	1.79000E+00 [1.0400E+00 g]	8.3620E-02	2.2600E-03			
												U-238	2.1200E+01 g]	5.65000E+00	2.6344E-01	7.1200E-03		
												Subtotal		2.3031E+00	6.2245E-02			
												Total		2.3031E+00	6.2245E-02			
BV-3033/37-000497-15(A)	19-C Cajun Bag	0.8495	1,262.8012	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100 100	oxide/NA	0.00	Th-228	6.56000E-01	3.0710E-02	8.3000E-04	AS		
		30.0000	1.3920	<2.000E-02	<1.000E+02	<1.000E+02		30.0000				Th-232 [2.5800E-01 ]	5.36000E+00 (2.5086E-02)	6.7800E-04 (6.7800E-04)	3.3800E-03			
												Th-234	1.97000E+00	1.2506E-01	3.3800E-03			
												U-234	6.03000E+01 [8.0200E-08 g]	2.8194E+00	7.6200E-02			
												U-235	2.72000E+00 [1.5900E+00 g]	1.2691E-01	3.4300E-03			
												U-238	5.6500E+01 g]	8.57000E+00	3.9960E-02	1.0800E-03		
												Subtotal		3.0151E+00	8.1490E-02			
												Total		3.0151E+00	8.1490E-02			
BV-3034/37-000497-15(A)	19-C Cajun Bag	0.8495	1,259.6261	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100 100	oxide/NA	0.00	Th-228	4.82000E-01	2.2496E-02	6.0800E-04	AS		
		30.0000	1.3885	<2.000E-02	<1.000E+02	<1.000E+02		30.0000				Th-232 [2.5800E-01 ]	3.94000E-01 (1.8399E-02)	4.9700E-04 (4.9700E-04)	2.4800E-03			
												Th-234	1.97000E+00	9.1760E-02	2.4800E-03			
												U-234	4.43000E+01 [1.2200E-08 g]	2.0646E+00	5.8000E-02			
												U-235	2.00000E+00 [1.1600E+00 g]	9.3240E-02	2.5200E-03			
												U-238	3.2300E+01 g]	6.30000E+00	2.9378E-01	7.9400E-03		
												Subtotal		2.5659E+00	6.9348E-02			
												Total		2.5659E+00	6.9348E-02			
BV-3035/37-000497-15(A)	19-C Cajun Bag	0.8495	1,247.3791	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100 100	oxide/NA	0.00	Th-228	5.32000E-01	2.4568E-03	6.6400E-05	AS		
		30.0000	1.3750	<2.000E-02	<1.000E+02	<1.000E+02		30.0000				Th-232 [2.0700E-01 ]	4.34000E-01 (2.1700E+00)	2.0054E-02	5.4200E-04			
												Th-234	2.17000E+00	1.0027E-01	2.7100E-03			
												U-234	4.88000E+01 [8.9400E-08 g]	2.2570E+00	6.1000E-02			
												U-235	2.02000E+02 [1.2700E+00 g]	1.0175E-01	2.7500E-03			

# UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
**0674-04-025**

3. PAGE 3 OF 4 PAGE(S)

## CONTAINER AND WASTE DESCRIPTION (CONTINUATION)

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME <small>(m3) (ft3)</small>	8. WASTE AND CONTAINER WEIGHT <small>(kg) (ton)</small>	9. SURFACE RADIATION LEVEL <small>mSv/hr mrem/hr</small>	10. SURFACE CONTAMINATION <small>MBq/100 cm2 dpm/100 cm2</small>		11. PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION				
					ALPHA	BETA-GAMMA	11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER <small>(m3) (FT3)</small>	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL, OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT				
										RADIONUCLIDES						
												U-238	pCi/gm	MBq	mCi	
												U-238 [2.3700E+01 g]	6.94000E+00	3.2079E-01	8.6700E-03	
												Subtotal		2.8023E+00	7.5738E-02	
												Total		2.8023E+00	7.5738E-02	
BV-3036/37-000497-15(A)	19-C Cajun Bag	0.8495	1,314.9644	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100 100	oxide/NA	0.00	Th-228	6.69000E-01	3.2560E-02	8.8000E-04	AS
												Th-232 [2.7400E-01 ]	5.47000E-01	(2.6603E-02)	(7.1900E-04)	
												Th-234	2.73000E+00	1.3283E-01	3.5900E-03	
		30.0000	1.4495	<2.0000E-02	<1.000E+02	<1.000E+02		30.0000				U-234	[1.3000E-08 g]	6.14000E+01	2.9933E+00	8.0900E-02
												U-235	[1.6900E+00 g]	2.77000E+00	1.3468E-01	3.6400E-03
												U-238 [3.4300E+01 g]	8.74000E+00	4.2550E-01	1.1500E-02	
												Subtotal		3.7189E+00	1.0051E-01	
												Total		3.7189E+00	1.0051E-01	
BV-3037/37-000497-15(A)	19-C Cajun Bag	0.8495	1,378.0137	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100 100	oxide/NA	0.00	Th-228	5.41000E-01	2.7639E-02	7.4700E-04	AS
												Th-232 [2.3500E-01 ]	4.42000E-01	(2.2570E-02)	(6.1000E-04)	
												Th-234	2.21000E+00	1.1285E-01	3.0500E-03	
		30.0000	1.5190	<2.0000E-02	<1.000E+02	<1.000E+02		30.0000				U-234	[1.1000E-08 g]	6.14000E+01	2.5382E+00	6.8600E-02
												U-235	[1.4300E+00 g]	2.24000E+00	1.1433E-01	3.0900E-03
												U-238 [2.9100E+01 g]	7.07000E+00	3.6075E-01	9.7500E-03	
												Subtotal		3.1538E+00	8.5237E-02	
												Total		3.1538E+00	8.5237E-02	
BV-3038/37-000497-15(A)	19-C Cajun Bag	0.8495	1,303.1710	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100 100	oxide/NA	0.00	Th-228	8.54000E-01	4.1070E-02	1.1100E-03	AS
												Th-232 [3.4700E-01 ]	6.98000E-01	(3.3670E-02)	(9.1000E-04)	
												Th-234	3.48000E+00	1.6798E-01	4.5400E-03	
		30.0000	1.4365	<2.0000E-02	<1.000E+02	<1.000E+02		30.0000				U-234	[1.6400E-08 g]	7.84000E+01	3.7740E+00	1.0200E-01
												U-235	[2.1300E+00 g]	3.53000E+00	1.7057E-01	4.6100E-03
												U-238 [4.3400E+01 g]	1.12000E+01	5.3650E-01	1.4500E-02	
												Subtotal		4.6901E+00	1.2676E-01	
												Total		4.6901E+00	1.2676E-01	
BV-3039/37-000497-15(A)	19-C Cajun Bag	0.8495	1,142.1457	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100 100	oxide/NA	0.00	Th-228	6.94000E-01	2.9341E-02	7.9300E-04	AS
												Th-232 [2.4700E-01 ]	5.67000E-01	(2.3976E-02)	(6.4800E-04)	
												Th-234	2.83000E+00	1.1951E-01	3.2300E-03	
		30.0000	1.2590	<2.0000E-02	<1.000E+02	<1.000E+02		30.0000				U-234	[1.1700E-08 g]	6.37000E+01	2.6936E+00	7.2800E-02
												U-235	[1.5200E+00 g]	2.87000E+00	(1.2136E-01)	(3.2800E-03)
												U-238 [3.0900E+01 g]	9.06000E+00	3.8480E-01	1.0400E-02	
												Subtotal		3.2273E+00	8.7223E-02	
												Total		3.2273E+00	8.7223E-02	

## UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
**0674-04-025**

### CONTAINER AND WASTE DESCRIPTION (CONTINUATION)

3. PAGE 4 OF 4 PAGE(S)

DISPOSAL CONTAINER DESCRIPTION				WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER											16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C		
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME  (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT  (kg) (ton)	9. SURFACE RADIATION LEVEL  mSv/hr mrem/hr	10. SURFACE CONTAMINATION MBq/100 cm2 dpm/100 cm2		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION					
					ALPHA	BETA-GAMMA				CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT					
												RADIONUCLIDES	pCi/gm	MBq	mCi		
BV-3040/37-000497-15(A)	19-C Cajun Bag	0.8495	1,144.4136	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100 100	oxide/NA	0.00	Th-228	9.67000E-01	4.1070E-02	1.1100E-03	AS	
		30.0000	1.2615	<2.000E-02	<1.000E+02	<1.000E+02		30.0000	Th-232 [3.4500E-01 ]			7.90000E-01	(3.3485E-02)	(9.0500E-04)	8.2400E-03		
												Th-234	3.95000E+00	3.0488E-01	8.2400E-03		
												U-234	[1.6300E-08 g]	8.89000E+01	3.7740E+00	1.0200E-01	
												U-235	[2.1200E+00 g]	4.00000E+00	1.6946E-01	4.5800E-03	
												U-238	[4.3200E+01 g]	1.26000E+01	5.3650E-01	1.4500E-02	
												Subtotal		4.8259E+00	1.3043E-01		
												Total		4.8259E+00	1.3043E-01		
BV-3041/37-000497-15(A)	19-C Cajun Bag	0.8495	1,262.3476	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100 100	oxide/NA	0.00	Th-228	1.60000E+00	7.4740E-02	2.0200E-03	AS	
		30.0000	1.3915	<2.000E-02	<1.000E+02	<1.000E+02		30.0000	Th-232 [6.2900E-01 ]			1.31000E+00	(6.1050E-02)	(1.6500E-03)	8.2400E-03		
												Th-234	6.52000E+00	3.0488E-01	8.2400E-03		
												U-234	[2.9700E-08 g]	1.47000E+02	6.8820E+00	1.8600E-01	
												U-235	[3.8700E+00 g]	6.62000E+00	(3.0932E-01)	(8.3600E-03)	
												U-238	[7.8800E+01 g]	2.09000E+01	9.7680E-01	2.6400E-02	
												Subtotal		8.2384E+00	2.2266E-01		
												Total		8.2384E+00	2.2266E-01		
Shipment Totals		11.8930	17,983.1243														
		420.0000	19.8230										[3.0050E+01 g]		6.5234E+01	1.7631E+00	

# UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST ISOTOPES REPORT

For Manifest # 0674-04-025  
Envirocare of Utah, Inc.

<u>Isotope</u>	<u>Total Activity</u>	
	<u>(MBq)</u>	<u>(mCi)</u>
Th-228	5.5868E-01	1.5099E-02
Th-232	4.5014E-01	1.2166E-02
Th-234	2.5307E+00	6.8398E-02
U-234	5.3369E+01	1.4424E+00
U-235	2.4032E+00	6.4950E-02
U-238	7.2283E+00	1.9536E-01

<b>FORM 540</b> <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER</b>		<b>Envirocare of Utah, Inc.</b>		5. SHIPPER - NAME AND FACILITY <b>Westinghouse Electric Company - SMP</b> RD #4 Box 333 Westinghouse Road Blairsville, PA 15717		SHIPMENT I.D. NUMBER <b>0674-04-026</b>		7. FORM 540 AND 540A PAGE 1 OF 2 PAGE(S) FORM 541 AND 541A 3 PAGE(S) FORM 542 AND 542A None PAGE(S) ADDITIONAL INFORMATION PAGE(S)		8. MANIFEST NUMBER (Use this number on all continuation pages) <b>0674-04-026</b>							
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) <b>412-374-4019</b>		UTAH DISPOSAL PERMIT NUMBER <b>NA</b>		SHIPMENT NUMBER <b>0674-04-026</b>		<input checked="" type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR		9. CONSIGNEE - Name and Facility Address <b>Envirocare of Utah, Inc.</b> <b>Clive Disposal Site</b> <b>Interstate 80, Exit 49</b> <b>Clive, UT 84029</b>		CONTACT <b>Shipping and Receiving</b> TELEPHONE NUMBER (Include Area Code) <b>(435) 884-0155</b>							
ORGANIZATION <b>Westinghouse Electric Company</b>		CONTACT <b>Irwin Dobrushin</b>		TELEPHONE NUMBER (Include Area Code) <b>412-374-6094</b>		EPA I.D. NUMBER <b>NA</b>		SIGNATURE - <i>Irwin Dobrushin</i>		DATE <b>9-24-98</b>							
2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST <b>11</b>		6. CARRIER - Name and Address <b>Autumn Transport</b> <b>518 Perkins Jones Road</b> <b>Warren, OH 44483</b>		SHIPPING DATE <b>9/21/98</b>		10. CERTIFICATION This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.									
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number		EPA MANIFEST NUMBER <b>NA</b>		CONTACT <b>Rod Perdonovich</b>		TELEPHONE NUMBER (Include Area Code) <b>1-800-447-2116</b>		AUTHORIZED SIGNATURE <i>Irwin Dobrushin Sr. Ind. Hygienist</i>		TITLE <b>Ind. Hygienist</b>							
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number		EPA MANIFEST NUMBER <b>NA</b>		SIGNATURE - <i>Rod Perdonovich</i> Authorized carrier acknowledging waste receipt		DATE <b>9/21/98</b>		AUTHORIZED SIGNATURE <i>Irwin Dobrushin Sr. Ind. Hygienist</i>		TITLE <b>Ind. Hygienist</b>							
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)		12. DOT LABEL "RADIOACTIVE"		13. TRANSPORT INDEX		14. PHYSICAL AND CHEMICAL FORM		15. INDIVIDUAL RADIONUCLIDES		16. TOTAL PACKAGE ACTIVITY MBq mCi		17. LSA/SCO CLASS		18. TOTAL WEIGHT OR VOLUME (Use appropriate units)		19. IDENTIFICATION NUMBER OF PACKAGE	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA		1		Solid-/ oxide		Th-228 U-235 Th-232 U-238 Th-234 U-234		6.4809E+00 1.7516E-01		LSA-I		2548.0000 LBS; 30.0000 FT		BV-3042	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA		1		Solid-/ oxide		Th-228 U-235 Th-232 U-238 Th-234 U-234		3.7094E+00 1.0026E-01		LSA-I		2991.0000 LBS; 30.0000 FT		BV-3052	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA		1		Solid-/ oxide		Th-228 U-235 Th-232 U-238 Th-234 U-234		3.9970E+00 1.0803E-01		LSA-I		2860.0000 LBS; 30.0000 FT		BV-3053	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA		1		Solid-/ oxide		Th-228 U-235 Th-232 U-238 Th-234 U-234		1.3752E+01 3.7167E-01		LSA-I		2774.0000 LBS; 30.0000 FT		BV-3043	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA		1		Solid-/ oxide		Th-228 U-235 Th-232 U-238 Th-234 U-234		6.5742E+00 1.7768E-01		LSA-I		2723.0000 LBS; 30.0000 FT		BV-3044	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA		1		Solid-/ oxide		Th-228 U-235 Th-232 U-238 Th-234 U-234		6.0403E+00 1.6325E-01		LSA-I		2400.0000 LBS; 30.0000 FT		BV-3045	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA		1		Solid-/ oxide		Th-228 U-235 Th-232 U-238 Th-234 U-234		1.9943E+11 5.3900E+09		LSA-I		2729.0000 LBS; 30.0000 FT		BV-3046	
Fissile excepted, Radioactive material, low specific activity, n.o.s., 7, UN2912		NA		1		Solid-/ oxide		Th-228 U-235 Th-232 U-238 Th-234 U-234		8.2492E+00 2.2295E-01		LSA-I		2900.0000 LBS; 30.0000 FT		BV-3047	
FOR CONSIGNEE USE ONLY <input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input checked="" type="checkbox"/> Other <input type="checkbox"/> No Violations Detected on this Shipment				20. TERMS AND CONDITION A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material ___ is (or) ___ is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1. B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc. C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST) are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license. D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST,) or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.													



<b>FORM 541</b>  <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST</b>  <b>CONTAINER AND WASTE DESCRIPTION</b>  Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste	Envirocare of Utah, Inc.		<b>1. MANIFEST TOTALS</b>					<b>2. MANIFEST NUMBER</b> 0674-04-026		
	<b>NUMBER OF PACKAGES/ DISPOSAL CONTAINERS</b>	NET WASTE VOLUME		NET WASTE WEIGHT		SPECIAL NUCLEAR MATERIAL (grams)				<b>3. PAGE 1 OF 3 PAGE(S)</b>
			m3	kg	ton	U-233	U-235	Pu	TOTAL	
	<b>11</b>	9.3445	13.482127	<b>NP</b>				2.9780E+01	2.9780E+01	<b>4. SHIPPER NAME</b> Westinghouse Electric Company
		330.0000	14.862	<b>11 Packages</b>				NP	NP	
			ACTIVITY		SOURCE				<b>SHIPMENT ID NUMBER</b> 0674-04-026	
		ALL NUCLIDES	TRITIUM	C-14	Tc-99	I-129	(kgs)	NA		
		MBq	NP	NP	NP	NP	(tons)	NA		
		mCi	NP	NP	NP	NP				

DISPOSAL CONTAINER DESCRIPTION							WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16 WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C					
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. PHYSICAL DESCRIPTION			12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)		14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION						
					ALPHA	BETA-GAMMA	WASTE DESCRIPTOR (See Note 2 & Note 2A)	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT												
													RADIONUCLIDES	pCi/gm	MBq	mCi						
BV-3042/37-000497-15(A)	19-C Cajun Bag	0.8495	1,155.7534	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100	100	oxide/NA	0.00	Th-228	1.3100E+00	5.6240E-02	1.5200E-03	AS					
		30.0000	1.2740	<2.000E-02	<1.000E+02	<1.000E+02	30.0000	30.0000	Th-232	[4.7400E-01 ]	2.2300E+00	(4.5880E-02)	(1.2400E-03)	Th-234	5.3600E+00	2.2977E-01		6.2100E-03				
													U-234	[2.2400E-08 g]	1.2100E+02	5.1800E+00	1.4000E-01	U-235	[2.9100E+00 g]	5.4400E+00	2.3273E-01	6.2900E-03
													U-238	[5.9300E+01 g]	1.7200E+01	7.3630E-01	1.9900E-02					
													Subtotal			6.4350E+00	1.7392E-01					
													Total			6.4350E+00	1.7392E-01					
BV-3043/37-000497-15(A)	19-C Cajun Bag	0.8495	1,258.2553	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100	100	oxide/NA	0.00	Th-228	2.5600E+00	1.1951E-01	3.2300E-03	AS					
		30.0000	1.3870	<2.000E-02	<1.000E+02	<1.000E+02	30.0000	30.0000	Th-232	[1.0100E+00 ]	2.1000E+00	(9.7680E-02)	(2.6400E-03)	Th-234	1.0500E+01	4.8840E-01		1.3200E-02				
													U-234	[4.7500E-08 g]	2.3600E+02	1.0989E+01	2.9700E-01	U-235	[6.1900E+00 g]	1.0600E+01	(4.9580E-01)	(1.3400E-02)
													U-238	[1.2600E+02 g]	3.3500E+01	1.5614E+00	4.2200E-02					
													Subtotal			1.3158E+01	3.5563E-01					
													Total			1.3158E+01	3.5563E-01					
BV-3044/37-000497-15(A)	19-C Cajun Bag	0.8495	1,235.1321	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100	100	oxide/NA	0.00	Th-228	1.2500E+00	5.6980E-02	1.5400E-03	AS					
		30.0000	1.3615	<2.000E-02	<1.000E+02	<1.000E+02	30.0000	30.0000	Th-232	[4.8100E-01 ]	1.0200E+00	(4.6620E-02)	(1.2600E-03)	Th-234	5.0900E+00	2.3310E-01		6.3000E-03				
													U-234	[2.7500E-08 g]	1.1500E+02	5.2540E+00	1.4200E-01	U-235	[2.9600E+00 g]	5.1600E+00	2.3606E-01	6.3800E-03
													U-238	[6.0200E+01 g]	1.6300E+01	7.4740E-01	2.0200E-02					
													Subtotal			6.5275E+00	1.7642E-01					
													Total			6.5275E+00	1.7642E-01					

**NOTE 1: Container Description Codes. For containers/waste requiring disposal in approved structural overpacks the numerical code must be followed by "-OP."**

1 Wooden Box or Crate	9. Demineralizer
2 Metal Box	10. Gas Cylinder
3 Plastic Drum or Pail	11. Bulk, Unpackaged Waste
4 Metal Drum or Pail	12. Unpackaged Components
5 Metal Tank or Liner	13. High Integrity Container
6 Concrete Tank or Liner	19. Other Describe in Item 6, or additional page.
7 Polyethylene Tank or Liner	
8 Fiberglass Tank or Liner	

**Note 1A: Bulk Packaging Description Codes (Choose one code as may be applicable.)**

A Gondola
B Intermodal
C End-dump
D Roll-off
E Seavan

**NOTE 2: Waste Descriptor Codes. (Choose up to three which predominate by volume.)**

20. Charcoal	29 Demolition Rubble	38 Evaporator Bottoms/Sludges/ Concentrates
21. Incinerator Ash	30. Cation Ion-exchange Media	39 Compactible Trash
22. Soil	31. Anion Ion-exchange Media	40 Noncompactible Trash
23. Gas	32 Mixed Bed Ion-exchange Media	41 Animal Carcass
24. Oil	33 Contaminated Equipment	42 Biological Material (except animal carcass)
25 Aqueous Liquid	34 Organic Liquid (except oil)	43 Activated Material
26 Filter Media	35 Glassware or Labware	59 Other Describe in item 11, or additional page
27. Mechanical Filter	36 Sealed Source/Device	
28 EPA or State Hazardous	37 Paint or Plating	

**Note 2A: Specific Waste Descriptions (Choose all applicable codes.)**

G Dewatered
H Solid
I Combustible
J Non-combustible
K Air Filtration Filters
L Asbestos

**Note 3: Solidification and Stabilization Media Codes. (Choose up to three which predominate by volume.) For media meeting disposal site structural stability requirements, the numerical code must be followed by "-S" and the media vendor and brand name must also be identified in item 13. Code 100=NONE REQUIRED**

90. Cement	94 Vinyl Ester Styrene
91. Concrete (encapsulation)	99. Other Describe in item 13, or additional page
92. Bitumen	
93. Vinyl Chloride	100. None Required.

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-026

3. PAGE 2 OF 3 PAGE(S)

**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (fl3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. PHYSICAL DESCRIPTION			12. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION				
					ALPHA	BETA-GAMMA	11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (fl3)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT				
												RADIONUCLIDES	pCi/gm	MBq	mCi	
BV-3045/37-000497-15(A)	19-C Cajun Bag	0.8495	1,088.6218	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100 100	oxide/NA	0.00	Th-228	1.3200E+00	5.3280E-02	1.4400E-03	AS
		Th-232 [4.4800E-01 ]	1.0800E+00	(4.3660E-02)	(1.1800E-03)											
		30.0000	1.2000	<2.000E-02	<1.000E+02	<1.000E+02		30.0000				Th-234	5.3900E+00	2.1719E-01	5.8700E-03	
												U-234 [2.1200E-08 g]	1.2100E+02	4.8100E+00	1.3000E-01	
												U-235 [2.7600E+00 g]	5.4700E+00	(2.2052E-01)	(5.9600E-03)	
												U-238 [5.6100E+01 g]	1.7300E+01	6.9560E-01	1.8800E-02	
												Subtotal		5.7761E+00	1.5611E-01	
												Total		5.7761E+00	1.5611E-01	
BV-3046/37-000497-15(A)	19-C Cajun Bag	0.8495	1,237.8537	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100 100	oxide/NA	0.00	Th-228	1.0500E+00	4.8100E-02	1.3000E-03	AS
		Th-232 [4.0600E-01 ]	8.5900E-01	3.9220E-02	1.0600E-03											
		30.0000	1.3645	<2.000E-02	<1.000E+02	<1.000E+02		30.0000				Th-234	4.2900E+00	1.9647E-01	5.3100E-03	
												U-234 [1.9200E-08 g]	9.6600E+01	4.4400E+00	1.2000E-01	
												U-235 [2.4900E+00 g]	4.3500E+00	1.9943E+11	5.3900E+09	
												U-238 [5.0800E+01 g]	1.3700E+01	6.2900E-01	1.7000E-02	
												Subtotal		1.9943E+11	5.3900E+09	
												Total		1.9943E+11	5.3900E+09	
BV-3047/37-000497-15(A)	19-C Cajun Bag	0.8495	1,315.4180	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100 100	oxide/NA	0.00	Th-228	1.1200E+00	5.4390E-02	1.4700E-03	AS
		Th-232 [4.0600E-01 ]	9.1200E-01	(4.4400E-02)	(1.2300E-03)											
		30.0000	1.4500	<2.000E-02	<1.000E+02	<1.000E+02		30.0000				Th-234	4.5600E+00	2.2200E-01	6.0000E-03	
												U-234 [1.9200E-08 g]	1.0300E+02	4.9950E+00	1.3500E-01	
												U-235 [2.8200E+00 g]	4.6200E+00	(2.2230E+00)	(6.0080E-02)	
												U-238 [5.0800E+01 g]	1.4600E+01	7.1040E-01	1.9200E-02	
												Subtotal		5.9818E+00	1.6167E-01	
												Total		5.9818E+00	1.6167E-01	
BV-3049/37-000497-15(A)	19-C Cajun Bag	0.8495	1,279.1306	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100 100	oxide/NA	0.00	Th-228	9.0600E-01	3.6297E-02	9.8100E-04	AS
		Th-232 [3.0600E-01 ]	7.4100E-01	(2.9674E-01)	(8.0200E-03)											
		30.0000	1.4100	<2.000E-02	<1.000E+02	<1.000E+02		30.0000				Th-234	3.7000E+00	1.4800E-01	4.0000E-03	
												U-234 [1.4400E-08 g]	8.3300E+01	3.3337E+00	9.0100E-02	
												U-235 [1.8800E+00 g]	3.7500E+00	1.5022E-01	4.0600E-03	
												U-238 [3.8300E+01 g]	1.1800E+01	4.7360E-01	1.2800E-02	
												Subtotal		4.1418E+00	1.1194E-01	
												Total		4.1418E+00	1.1194E-01	
BV-3050/37-000497-15(A)	19-C Cajun Bag	0.8495	1,081.8179	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100 100	oxide/NA	0.00	Th-228	1.0800E+00	4.6990E-02	1.2700E-03	AS
		Th-232 [3.9700E-01 ]	8.8400E-01	(3.8480E-02)	(1.6400E-03)											
		30.0000	1.1925	<2.000E-02	<1.000E+02	<1.000E+02		30.0000				Th-234	4.4200E+00	1.9240E-01	5.2000E-03	
												U-234 [1.8700E-08 g]	9.9400E+01	4.3290E+00	1.1700E-01	
												U-235 [2.4400E+00 g]	4.4800E+00	1.9499E-01	5.2700E-03	



**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
**0674-04-026**

3. PAGE 3 OF 3 PAGE(S)

**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION				
					ALPHA	BETA-GAMMA				CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT				
												RADIONUCLIDES				
												pCi/gm				
												MBq				
												mCi				
												U-238 [4.9700E+01 g]	1.41000E+01	6.1420E-01	1.6600E-02	
												Subtotal		5.3776E+00	1.4534E-01	
												Total		5.3776E+00	1.4534E-01	
BV-3051/37-000497-15(A)	19-C Cajun Bag	0.8495	1,176.1651	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100	oxide/NA	0.00	Th-228	7.15000E-01	3.5927E-02	9.7100E-04	AS
												Th-232 [3.0200E-01 ]	5.84000E-01	(2.9341E-02)	(7.9300E-04)	
												Th-234	2.92000E+00	1.4652E-01	3.9600E-03	
												U-234 [1.4300E-08 g]	6.57000E+01	3.3004E+00	8.9200E-02	
												U-235 [1.8600E+00 g]	2.96000E+00	(1.4874E-01)	(4.0200E-03)	
												U-238 [3.7800E+01 g]	9.34000E+00	4.6990E-01	1.2700E-02	
												Subtotal		3.9527E+00	1.0683E-01	
												Total		3.9527E+00	1.0683E-01	
BV-3052/37-000497-15(A)	19-C Cajun Bag	0.8495	1,356.6949	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100	oxide/NA	0.00	Th-228	6.72000E-01	3.2264E-02	8.7200E-04	AS
												Th-232 [2.7500E-01 ]	5.49000E-01	(2.6381E-02)	(7.1300E-04)	
												Th-234	2.74000E+00	1.3172E-01	3.5600E-03	
												U-234 [1.2800E-08 g]	6.17000E+01	2.9637E+00	8.0100E-02	
												U-235 [1.6700E+00 g]	2.78000E+00	1.3357E-01	3.6100E-03	
												U-238 [3.4000E+01 g]	8.78000E+00	4.2180E-01	1.1400E-02	
												Subtotal		3.6831E+00	9.9542E-02	
												Total		3.6831E+00	9.9542E-02	
BV-3053/37-000497-15(A)	19-C Cajun Bag	0.8495	1,297.2743	<2.0000E-04	<1.6700E-06	<1.6700E-06	22-H	0.8495	100	oxide/NA	0.00	Th-228	7.22000E-01	3.4780E-02	9.4000E-04	AS
												Th-232 [2.9300E-01 ]	5.90000E-01	(2.8416E-02)	(7.6800E-04)	
												Th-234	2.95000E+00	1.4171E-01	3.8300E-03	
												U-234 [1.3800E-08 g]	6.63000E+01	3.1931E+00	8.6300E-02	
												U-235 [1.8000E+00 g]	2.99000E+00	1.4393E-01	3.8900E-03	
												U-238 [3.6600E+01 g]	9.43000E+00	4.5510E-01	1.2300E-02	
												Subtotal		3.9686E+00	1.0726E-01	
												Total		3.9686E+00	1.0726E-01	
Shipment Totals		9.3445	13,482.1271									[2.9780E+01 g]		1.9943E+11	5.3900E+09	
		330.0000	14.8615													

**UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST  
ISOTOPES REPORT**

For Manifest # 0674-04-026  
Envirocare of Utah, Inc.

<u>Isotope</u>	<u>Total Activity</u>	
	<u>(MBq)</u>	<u>(mCi)</u>
Th-228	5.7476E-01	1.5534E-02
Th-232	7.3682E-01	1.9914E-02
Th-234	2.3473E+00	6.3440E-02
U-234	5.2788E+01	1.4267E+00
U-235	1.9943E+11	5.3900E+09
U-238	7.5147E+00	2.0310E-01

**This Shipping Order**

must be legibly filled in, in ink, in Indelible Pencil, or in Carbon, and retained by the Agent.

RECEIVED subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading.

**Westinghouse Electric Corporation**

OUR ORDER NO.	SHIPPER'S NO. (SHOW THESE NUMBERS ON FRT. BILL)	FROM
	0674-04-26	AT (PICK-UP POINT) 1000 CHESWICK AVENUE GATE A ELECTRO-MECHANICAL DIVISION, CHESWICK, PA 15024-3000 Westinghouse Rd Blairsville, Pa 15717
CUST. ORDER NO.	DATE	MAIL FREIGHT BILLS TO (POST OFFICE ADDRESS)
MB-38055	9/21/98	WESTINGHOUSE ELEC. CORP. C/O COMTRAC INC., BTA NO. 21073 P.O. BOX 443 WORTHINGTON, OHIO 43085
CONSIGNEE TO (Mail or street address of consignee—For purposes of notification only)		the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.
Envirocare of Utah U.S. I-80, Exit 49 Clive, UT 84029		
ROUTE		Subject to Section 7 of Conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.
CAR OR VEHICLE INITIAL AND NO.		WESTINGHOUSE ELECTRIC CORP. Signature of Consignor
DELIVERING CARRIER		NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding per
		If charges are to be prepaid, write or stamp here "To be Prepaid."
		Autumn Transport

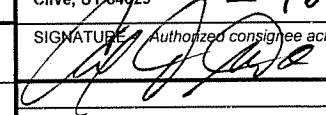
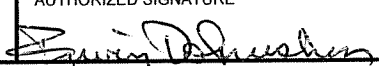
NO. PKGS.	HM	CLASSIFICATION DESCRIPTION [If Hazardous Material Use D.O.T. Description & Class, No Abbreviations]	WEIGHT SUB. TO COR.
11	X	Fissile excepted, Radioactive material, Low Specific Activity, A.O.S., UN2912 Total Activity MBA = 19.9 (mCi) = 0.54	14.86 T (13,482 kg)
		markings Radioactive LSA	
		Label Applied None	330 ft <sup>3</sup>
		Transport Index 1	
		Physical Form Solid	
		Chemical Form Oxide	
		Emergency Assistance Call Chemtrec 800-424-9300	
		Emergency Response Guide #162	
		Emergency Contacts Day Night	
		Security 412-374-4019 412-374-4019	
		Trwin Dobrushin 412-374-6094 412-243-5503	
		A. J. Nardi 412-374-4652 412-372-1450	
		Deliver to site by 12 NOON - 9/24/98	
		Carrier please note: All 13 pages of the attached shipping documents must accompany this shipment to destination and must be given to consignee. Page 1 of 13 Pages.	

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.
  PLACARDS SUPPLIED OR APPLIED Radioactive 7 TYPE

Westinghouse Electric Corporation Shipper, Per *A. J. Nardi* Carrier, Per *D. J. Nardi*

\* CARRIER: RETURN THIS MEMORANDUM COPY, COMPLETING THE CAPTIONS RESERVED FOR YOUR USE, AS/OR WITH YOUR FREIGHT BILL.

SHIPPING ORDER 1  
MEMORANDUM 2  
ORIGINAL 3

<b>FORM 540</b>		<b>Envirocare of Utah, Inc.</b>		5 SHIPPER -- NAME AND FACILITY Westinghouse Electric Company - SMP RD #4 Box 333 Westinghouse Road Blairsville, PA 15717				SHIPMENT I.D. NUMBER <b>NA</b>		7 FORM 540 AND 540A PAGE 1 OF 2 PAGE(S) FORM 541 AND 541A 4 PAGE(S) FORM 542 AND 542A None PAGE(S) ADDITIONAL INFORMATION None PAGE(S)			8 MANIFEST NUMBER (Use this number on all continuation pages) <b>NA</b> <b>0674-04-027</b>				
<b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER</b>				Utah Generator Site Access Permit No <b>NA</b>		SHIPMENT NUMBER <b>NA</b>		<input checked="" type="checkbox"/> GENERATOR TYPE (Specify) <input type="checkbox"/>		9 CONSIGNEE - Name and Facility Address  Envirocare of Utah, Inc. Clive Disposal Site (Bulk Waste Facility) Interstate 80, Exit 49 Clive, UT 84029 <b>L42121</b>			CONTACT Shipping and Receiving				
1 EMERGENCY TELEPHONE NUMBER (Include Area Code) <b>412-374-4019</b>				CONTACT Irwin Dobrushin				TELEPHONE NUMBER (Include Area Code) <b>412-374-6094</b>		TELEPHONE NUMBER (Include Area Code) <b>(435)884-0155</b>			DATE <b>11/21/01</b>				
ORGANIZATION Westinghouse Electric Company				6 CARRIER -- Name and Address MHF Logistical Solutions 129 McCarrell Lane Zelionople, Pa 16063				EPA I.D. NUMBER <b>PAR000000281</b>		SIGNATURE -- Authorized consignee acknowledging waste receipt 			DATE <b>11/13/01</b>				
2 IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		3 TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST <b>9</b>		10. CERTIFICATION This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.				SHIPPING DATE <b>NA</b>		AUTHORIZED SIGNATURE 			TITLE <b>Sr. Inv. Mgr.</b>		DATE <b>11/13/01</b>		
4 DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number		EPA MANIFEST NUMBER <b>NA</b>		CONTACT Megan Olczak				TELEPHONE NUMBER (Include Area Code) <b>724-452-3900</b>		DATE <b>11/13/01</b>			SIGNATURE -- Authorized carrier acknowledging waste receipt				
11 U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)		12 DOT LABEL "RADIOACTIVE"		13 TRANSPORT INDEX		14 PHYSICAL AND CHEMICAL FORM		15 INDIVIDUAL RADIONUCLIDES		16 TOTAL PACKAGE ACTIVITY MBq mCi		17 LSA/SCO CLASS		18 TOTAL WEIGHT OR VOLUME (Use appropriate units)		19 IDENTIFICATION NUMBER OF PACKAGE	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 Soil		NA		na		Solid / oxide		Th-228 Th-232 U-234 U-235 U-238		4.8125E+01 1.3007E+00		NA		19350. LBS; 250. FT3		WSM-03	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 soil		NA		na		Solid / oxide		Th-228 Th-232 U-234 U-235 U-238		4.9492E+01 1.3376E+00		NA		8981.1295 KGS; 7.0792 M3		WSM-05	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 soil		NA		NA		Solid / oxide		Th-228 Th-232 U-234 U-235 U-238		5.3266E+01 1.4396E+00		NA		9684.1977 KGS; 7.0792 M3		WSM-07	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 U-234 U-235 U-238		5.6097E+01 1.5161E+00		NA		10205.829 KGS; 7.0792 M3		WSM-08	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 U-234 U-235 U-238		5.1828E+01 1.4008E+00		NA		9412.0423 KGS; 7.0792 M3		WSM-09	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 U-234 U-235 U-238		5.4692E+01 1.4782E+00		NA		21900. LBS; 250. FT3		WSM-17	
FOR CONSIGNEE USE ONLY				20 TERMS AND CONDITION				A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material _____ is (or) <input checked="" type="checkbox"/> is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1									
<b>BILLING ONLY</b>				<input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Shipment.				B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc.  C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST) are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license  D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST,) or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters									





**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-027

3. PAGE 2 OF 4 PAGE(S)

**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION				WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER							16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C							
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION						
					ALPHA	BETA-GAMMA	11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	CHEMICAL FORM/ CHELATING AGENT		WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT					
												RADIONUCLIDES		pCi/gm	MBq	mCi		
WSM-07/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9684.1977	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	e/	oxid NA		Th-228	[1.1100E-11 kgs]	2.00842E-02	3.3707E-01	9.1100E-03	AS
		250.0000	10.6750	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100				U-238	[5.0300E+02 g]	3.76993E-01	6.3270E+00	1.7100E-01	
													Subtotal			5.3266E+01	1.4396E+00	
													Total			5.3266E+01	1.4396E+00	
													SNM:	[3.9000E+01 g]				
													Source:	[6.8000E-02 kgs]				
WSM-08/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	10205.8290	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	e/	oxid NA		Th-228	[1.1700E-11 kgs]	2.11645E-02	3.5520E-01	9.6000E-03	AS
		250.0000	11.2500	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100				Th-232	[6.8000E-02 kgs]	1.65789E-02	2.7824E-01	7.5200E-03	
													Th-234	[1.6600E-12 kgs]	8.39966E-02	1.4097E+00	3.8100E-02	
													U-234	[1.8200E-01 g]	2.49124E+00	4.1810E+01	1.1300E+00	
													U-235	[3.9000E+01 g]	1.84969E-01	3.1043E+00	8.3900E-02	
													U-238	[5.3000E+02 g]	3.96835E-01	6.6600E+00	1.8000E-01	
													Subtotal			5.6097E+01	1.5161E+00	
													Total			5.6097E+01	1.5161E+00	
													SNM:	[4.1000E+01 g]				
													Source:	[7.2000E-02 kgs]				
WSM-09/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9412.0423	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	e/	oxid NA		Th-228	[1.0800E-11 kgs]	1.95331E-02	3.2782E-01	8.8600E-03	AS
		250.0000	10.3750	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100				Th-232	[6.6000E-02 kgs]	1.61159E-02	2.7047E-01	7.3100E-03	
													Th-234	[1.6100E-12 kgs]	8.17920E-02	1.3727E+00	3.7100E-02	
													U-234	[1.7700E-01 g]	2.42510E+00	4.0700E+01	1.1000E+00	
													U-235	[3.8000E+01 g]	1.79678E-01	3.0155E+00	8.1500E-02	
													U-238	[4.8900E+02 g]	3.65970E-01	6.1420E+00	1.6600E-01	
													Subtotal			5.1828E+01	1.4008E+00	
													Total			5.1828E+01	1.4008E+00	
													SNM:	[3.8000E+01 g]				
													Source:	[6.6000E-02 kgs]				

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-027

3. PAGE 3 OF 4 PAGE(S)

DISPOSAL CONTAINER DESCRIPTION							CONTAINER AND WASTE DESCRIPTION (CONTINUATION)							WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER							16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
5 CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6 CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7 VOLUME <u>(m3)</u> <u>(ft3)</u>	8 WASTE AND CONTAINER WEIGHT <u>(kg)</u> <u>(ton)</u>	9 SURFACE RADIATION LEVEL <u>mSv/hr</u> <u>mrem/hr</u>	10 SURFACE CONTAMINATION <u>MBq/100 cm2</u> <u>dpm/100 cm2</u>		11 WASTE DESCRIPTOR (See Note 2 & Note 2A)	12 APPROXIMATE WASTE VOLUME(S) IN CONTAINER <u>(m3)</u> <u>(FT3)</u>	13 SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION									
					ALPHA	BETA-GAMMA				CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL, OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT									
												RADIONUCLIDES		pCi/gm	MBq	mCi					
WSM-17/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9933.6736	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	el	oxid NA	Th-228	[1.1400E-11 kgs]	2.06133E-02	3.4595E-01	9.3500E-03	AS				
		250.0000	10.9500	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100			Th-232	[7.0000E-02 kgs]	1.70198E-02	2.8564E-01	7.7200E-03					
												Th-234	[1.7000E-12 kgs]	8.62013E-02	1.4467E+00	3.9100E-02					
												U-234	[1.8700E-01 g]	2.55738E+00	(4.2920E+01)	(1.1600E+00)					
												U-235	[4.0000E+01 g]	1.89599E-01	3.1820E+00	8.6000E-02					
												U-238	[5.1600E+02 g]	3.88016E-01	6.5120E+00	1.7600E-01					
												Subtotal			1.1772E+01	3.1817E-01					
												Total			1.1772E+01	3.1817E-01					
												SNM:	[4.0000E+01 g]								
												Source:	[7.0000E-02 kgs]								
WSM-18/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9865.6347	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	el	oxid NA	Th-228	[1.1300E-11 kgs]	2.04590E-02	3.4336E-01	9.2800E-03	AS				
		250.0000	10.8750	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100			Th-232	[7.0000E-02 kgs]	1.68875E-02	2.8342E-01	7.6600E-03					
												Th-234	[1.6900E-12 kgs]	8.57604E-02	1.4393E+00	3.8900E-02					
												U-234	[1.8600E-01 g]	2.53533E+00	(4.2550E+01)	(1.1500E+00)					
												U-235	[4.0000E+01 g]	1.88276E-01	3.1598E+00	8.5400E-02					
												U-238	[5.1300E+02 g]	3.83607E-01	6.4380E+00	1.7400E-01					
												Subtotal			1.1664E+01	3.1524E-01					
												Total			1.1664E+01	3.1524E-01					
												SNM:	[4.0000E+01 g]								
												Source:	[7.0000E-02 kgs]								
WSM-19/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9412.0423	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	el	oxid NA	Th-228	[1.0800E-11 kgs]	1.95331E-02	3.2782E-01	8.8600E-03	AS				
		250.0000	10.3750	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100			Th-232	[6.6000E-02 kgs]	1.61159E-02	2.7047E-01	7.3100E-03					
												Th-234	[1.6100E-12 kgs]	8.17920E-02	1.3727E+00	3.7100E-02					
												U-234	[1.7700E-01 g]	2.42510E+00	(4.0700E+01)	(1.1000E+00)					
												U-235	[3.8000E+01 g]	1.79678E-01	3.0155E+00	8.1500E-02					
												U-238	[4.8900E+02 g]	3.65970E-01	6.1420E+00	1.6600E-01					
												Subtotal			1.1128E+01	3.0077E-01					
												Total			1.1128E+01	3.0077E-01					
												SNM:	[3.8000E+01 g]								
												Source:	[6.6000E-02 kgs]								



**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
**0674-04-027**

3. PAGE 4 OF 4 PAGE(S)

**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C			
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (R3)	8. WASTE AND CONTAINER WEIGHT (kg) (top)	9. SURFACE RADIATION LEVEL (mSv/hr) (rem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. PHYSICAL DESCRIPTION		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)		14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION					
					ALPHA	BETA-GAMMA		12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13.	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT							
														RADIONUCLIDES					
														pCi/gm	MBq	mCi			
WSM-20/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9298.6442	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	100	100	e/	oxid NA			Th-228	[1.0800E-11 kgs]	1.95331E-02	3.2782E-01	8.8600E-03	AS
		250.0000	10.2500	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	Th-232					[6.6000E-02 kgs]	1.61159E-02	2.7047E-01	7.3100E-03		
														Th-234	[1.6100E-12 kgs]	8.17920E-02	1.3727E+00	3.7100E-02	
														U-234	[1.7500E-01 g]	2.38101E+00	(3.9960E+01)	(1.0800E+00)	
														U-235	[3.8000E+01 g]	1.77473E-01	2.9785E+00	8.0500E-02	
														U-238	[4.8300E+02 g]	3.61560E-01	6.0680E+00	1.6400E-01	
														Subtotal			1.1017E+01	2.9777E-01	
														Total			1.1017E+01	2.9777E-01	
														SNM:	[3.8000E+01 g]				
														Source:	[6.6000E-02 kgs]				
Shipment Totals		63.7128	85570.2062											SNM:	[3.4600E+02 g]		3.0439E+02	8.2268E+00	
		2250.0000	94.3250											Source:	[6.0300E-01 kgs]				

# UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST ISOTOPES REPORT

For Manifest #  
Envirocare of Utah, Inc.

<u>Isotope</u>	<u>Total Activity</u>	
	<u>(MBq)</u>	<u>(mCi)</u>
Th-228	2.9833E+00	8.0630E-02
Th-232	2.4627E+00	6.6560E-02
Th-234	1.2491E+01	3.3760E-01
U-234	3.6926E+02	9.9800E+00
U-235	2.7417E+01	7.4100E-01
U-238	5.5907E+01	1.5110E+00

**ATTACHMENT TO NRC FORM 540**

Manifest Number: 0674-024-027  
Railcar Number: ANEX 5220

**6. CARRIER – Name and Address**

**Transporter # 2:**

CARRIER: Norfolk Southern Corporation  
ADDRESS: 3 Commercial Place  
Norfolk, VA 23510-2191  
TELEPHONE: 800-635-5768  
EPA ID #: VAD000650309

Carrier's Signature: \_\_\_\_\_

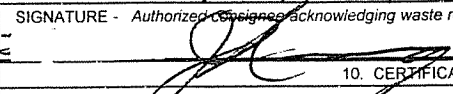

Date: \_\_\_\_\_

**Transporter # 3:**

CARRIER: Union Pacific Railroad Company  
ADDRESS: 1416 Dodge St.  
Omaha, NE 68179  
TELEPHONE: 800-243-5416  
EPA ID #: NED001792910

Carrier's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

<b>FORM 540</b>		<b>Envirocare of Utah, Inc.</b>		5. SHIPPER - NAME AND FACILITY Westinghouse Electric Company - SMP RD #4 Box 333 Westinghouse Road Blairsville, PA 15717		SHIPMENT I.D. NUMBER <b>NA</b>		7. FORM 540 AND 540A FORM 541 AND 541A FORM 542 AND 542A ADDITIONAL INFORMATION		8. MANIFEST NUMBER (Use this number on all continuation pages) <b>0574-04-028</b>							
<b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER</b>		Utah Generator Site Access Permit No. NA		SHIPMENT NUMBER NA		<input checked="" type="checkbox"/> GENERATOR TYPE (Specify) <input type="checkbox"/>		9. CONSIGNEE - Name and Facility Address  Envirocare of Utah, Inc. Clive Disposal Site (Bulk Waste Facility) Interstate 80, Exit 49 Clive, UT 84029		CONTACT Shipping and Receiving							
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) <b>412-374-4019</b>		3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST <b>9</b>		6. CARRIER - Name and Address MHF Logistical Solutions 129 McCarrell Lane Zelionople, Pa 16063		EPA ID NUMBER PAR000000281		SIGNATURE - Authorized consignee acknowledging waste receipt 		TELEPHONE NUMBER (Include Area Code) <b>412-374-6094</b>							
ORGANIZATION Westinghouse Electric Company		4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number		CONTACT Megan Olczak		SHIPPING DATE NA		10. CERTIFICATION This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.		DATE <b>11-26-01</b>							
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		EPA MANIFEST NUMBER NA		SIGNATURE - Authorized carrier acknowledging waste receipt		DATE		AUTHORIZED SIGNATURE 		TITLE Sr. Paul Hays							
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)		12. DOT LABEL "RADIOACTIVE"		13. TRANSPORT INDEX		14. PHYSICAL AND CHEMICAL FORM		15. INDIVIDUAL RADIONUCLIDES		16. TOTAL PACKAGE ACTIVITY MBq mCi		17. LSA/SCO CLASS		18. TOTAL WEIGHT OR VOLUME (Use appropriate units)		19. IDENTIFICATION NUMBER OF PACKAGE	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		4.9991E+01 1.3511E+00		NA		20050. LBS; 250. FT3		WSM-01	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		4.5122E+01 1.2195E+00		NA		18100. LBS; 250. FT3		WSM-02	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		4.8557E+01 1.3124E+00		NA		19450. LBS; 250. FT3		WSM-04	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		5.1828E+01 1.4008E+00		NA		20750. LBS; 250. FT3		WSM-11	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		5.3757E+01 1.4529E+00		NA		21550. LBS; 250. FT3		WSM-12	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		5.1446E+01 1.3904E+00		NA		20700. LBS; 250. FT3		WSM-13	
FOR CONSIGNEE USE ONLY				<input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Shipment.				20. TERMS AND CONDITION A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material _____ is (or) <input checked="" type="checkbox"/> is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1 B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc. C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST) are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license. D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST,) or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters									

BILLING ONLY



**ATTACHMENT TO NRC FORM 540**

Manifest Number: 0674-04-028  
Railcar Number: MHFX-5213

**6. CARRIER -- Name and Address**

**Transporter # 2:**

CARRIER: Norfolk Southern Corporation  
ADDRESS: 3 Commercial Place  
Norfolk, VA 23510-2191  
TELEPHONE: 800-635-5768  
EPA ID #: VAD000650309

Carrier's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**Transporter # 3:**

CARRIER: Union Pacific Railroad Company  
ADDRESS: 1416 Dodge St.  
Omaha, NE 68179  
TELEPHONE: 800-243-5416  
EPA ID #: NED001792910

Carrier's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

<b>FORM 541</b>  <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST</b>  CONTAINER AND WASTE DESCRIPTION  Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste	Envirocare of Utah, Inc.	<b>1. MANIFEST TOTALS</b>						<b>2. MANIFEST NUMBER</b> 0674-04-028						
	NUMBER OF PACKAGES/ DISPOSAL CONTAINERS		NET WASTE VOLUME		NET WASTE WEIGHT		SPECIAL NUCLEAR MATERIAL (grams)							
	9		m3 63.7128		kg 84005.3124		U-233 NP		U-235 3.4100E+02 9 Packages		Pu NP		TOTAL 3.4100E+02	
	9		R3 2250.0000		ton 92.6000									
	ACTIVITY						SOURCE							
		ALL NUCLIDES		TRITIUM		C-14		Tc-99		I-129				
		MBq		4.1297E+02		NP		NP		NP		(kgs) 5.2600E-01		
		mCi		1.1161E+01		NP		NP		NP		(tons) 5.7982E-04		
												<b>3. PAGE 1 OF 4 PAGE(S)</b>		
												<b>4. SHIPPER NAME</b> Westinghouse Electric Compan		
												<b>SHIPMENT ID NUMBER</b> NA		

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER											16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (R3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION					
					ALPHA	BETA-GAMMA				CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT					
												RADIONUCLIDES		pCi/gm	MBq	mCi	
WSM-01/37-000497-15(A)	19-A SUPER SACK - 10YD3	7.0792	9094.5276	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	e/	oxid	Th-232	[6.4000E-02 kgs]	1.55647E-02	2.6122E-01	7.0600E-03	AS
		250.0000	10.0250	5.0000E-01	<2.000E+01	<1.500E+02		100	7.0792			100	Th-234	[1.5600E-12 kgs]	7.89260E-02	1.3246E+00	
								250.0000				U-234	[1.7100E-01 g]	2.33691E+00	3.9220E+01	1.0600E+00	
												U-235	[3.7000E+01 g]	1.73505E-01	2.9119E+00	7.8700E-02	
												U-238	[4.7300E+02 g]	3.54946E-01	5.9570E+00	1.6100E-01	
												Subtotal		1.88717E-02	3.1672E-01	8.5600E-03	
												Total		4.9991E+01	1.3511E+00		
												SNM: [3.7000E+01 g]					
												Source: [6.4000E-02 kgs]					
WSM-02/37-000497-15(A)	19-A SUPER SACK - 10YD3	7.0792	8210.0224	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	e/	oxid	Th-228	[9.4200E-12 kgs]	1.70198E-02	2.8564E-01	7.7200E-03	AS
		250.0000	9.0500	5.0000E-01	<2.000E+01	<1.500E+02		100	7.0792			100	Th-232	[5.8000E-02 kgs]	1.40656E-02	2.3606E-01	
								250.0000				Th-234	[1.4100E-12 kgs]	7.12098E-02	1.1951E+00	3.2300E-02	
												U-234	[1.5400E-01 g]	2.10984E+00	3.5409E+01	9.5700E-01	
												U-235	[3.3000E+01 g]	1.56750E-01	2.6307E+00	7.1100E-02	
												U-238	[4.2700E+02 g]	3.19672E-01	5.3650E+00	1.4500E-01	
												Subtotal		4.5122E+01	1.2195E+00		
												Total		4.5122E+01	1.2195E+00		
												SNM: [3.3000E+01 g]					
												Source: [5.8000E-02 kgs]					

**NOTE 1: Container Description Codes.** For containers/waste requiring disposal in approved structural overpacks the numerical code must be followed by "-OP."

1. Wooden Box or Crate	9. Demineralizer
2. Metal Box	10. Gas Cylinder
3. Plastic Drum or Pail	11. Bulk, Unpackaged Waste
4. Metal Drum or Pail	12. Unpackaged Components
5. Metal Tank or Liner	13. High Integrity Container
6. Concrete Tank or Liner	19. Other. Describe in Item 6, or additional page.
7. Polyethylene Tank or Liner	
8. Fiberglass Tank or Liner	

**Note 1A: Bulk Packaging Description Codes** (Choose one code as may be applicable.)

A Gondola
B Intermodal
C End-dump
D Roll-off
E Seavan

**NOTE 2: Waste Descriptor Codes.** (Choose up to three which predominate by volume.)

20. Charcoal	29. Demolition Rubble	38. Evaporator Bottoms/Sludges/ Concentrates
21. Incinerator Ash	30. Cation Ion-exchange Media	39. Compactible Trash
22. Soil	31. Anion Ion-exchange Media	40. Noncompactible Trash
23. Gas	32. Mixed Bed Ion-exchange Media	41. Animal Carcass
24. Oil	33. Contaminated Equipment	42. Biological Material (except animal carcass)
25. Aqueous Liquid	34. Organic Liquid (except oil)	43. Activated Material
26. Filter Media	35. Glassware or Labware	59. Other. Describe in item 11, or additional page
27. Mechanical Filter	36. Sealed Source/Device	
28. EPA or State Hazardous	37. Paint or Plating	

**Note 2A: Specific Waste Descriptions** (Choose all applicable codes.)

G Dewatered
H Solid
I Combustible
J Non-combustible
K Air Filtration Filters
L Asbestos

**Note 3: Solidification and Stabilization Media Codes.** (Choose up to three which predominate by volume.) For media meeting disposal site structural stability requirements, the numerical code must be followed by "-S" and the media vendor and brand name must also be identified in item 13. Code 100=NONE REQUIRED

90 Cement	94 Vinyl Ester Styrene
91 Concrete	99 Other Describe in item 13, or additional page
92 Bitumen	100 None Required.
93 Vinyl Chloride	

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
**0674-04-028**

3. PAGE 2 OF 4 PAGE(S)

**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C				
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (R3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. PHYSICAL DESCRIPTION			12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)		14. CHEMICAL DESCRIPTION			15. RADIOLOGICAL DESCRIPTION			
					ALPHA	BETA-GAMMA	WASTE DESCRIPTOR (See Note 2 & Note 2A)	WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	OR STABILIZATION MEDIA (See Note 3)	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT								
												RADIONUCLIDES		pCi/gm	MBq		mCi			
WSM-04/37-000497-15(A)	19-A SUPER SACK - 10YD3	7.0792	8822.3722	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	100 100	100 100	el	oxid NA		Th-232	[6.2000E-02 kgs]	1.51018E-02	2.5345E-01	6.8500E-03	AS		
		U-234	[1.6600E-01 g]	2.27078E+00	3.8110E+01	1.0300E+00														
		250.0000	9.7250	5.0000E-01	<2.000E+01	<1.500E+02		250.0000					U-235	[3.6000E+01 g]	1.68434E-01	2.8268E+00	7.6400E-02			
													U-238	[4.5900E+02 g]	3.43923E-01	5.7720E+00	1.5600E-01			
													Th-228	[1.0100E-11 kgs]	1.82985E-02	3.0710E-01	8.3000E-03			
													Th-234	[1.5900E-12 kgs]	7.67213E-02	1.2876E+00	3.4800E-02			
													Subtotal			4.8557E+01	1.3124E+00			
													Total			4.8557E+01	1.3124E+00			
													SNM:	[3.6000E+01 g]						
													Source:	[6.2000E-02 kgs]						
WSM-11/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9412.0423	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	100 100	100 100	el	oxid NA		Th-228	[1.0800E-11 kgs]	1.95331E-02	3.2782E-01	8.8600E-03	AS		
		Th-232	[6.6000E-02 kgs]	1.61159E-02	2.7047E-01	7.3100E-03														
		250.0000	10.3750	5.0000E-01	<2.000E+01	<1.500E+02		250.0000					Th-234	[1.6100E-12 kgs]	8.17920E-02	1.3727E+00	3.7100E-02			
													U-234	[1.7700E-01 g]	2.42510E+00	4.0700E+01	1.1000E+00			
													U-235	[3.8000E+01 g]	1.79678E-01	3.0155E+00	8.1500E-02			
													U-238	[4.8900E+02 g]	3.65970E-01	6.1420E+00	1.6600E-01			
													Subtotal			5.1828E+01	1.4008E+00			
													Total			5.1828E+01	1.4008E+00			
													SNM:	[3.8000E+01 g]						
													Source:	[6.6000E-02 kgs]						
WSM-12/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9774.9162	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	100 100	100 100	el	oxid NA		Th-228	[1.1200E-11 kgs]	2.02827E-02	3.4040E-01	9.2000E-03	AS		
		Th-232	[6.9000E-02 kgs]	1.67332E-02	2.8083E-01	7.5900E-03														
		250.0000	10.7750	5.0000E-01	<2.000E+01	<1.500E+02		250.0000					Th-234	[1.6700E-12 kgs]	8.48785E-02	1.4245E+00	3.8500E-02			
													U-234	[1.8400E-01 g]	2.51329E+00	4.2180E+01	1.1400E+00			
													U-235	[4.0000E+01 g]	1.86512E-01	3.1302E+00	8.4600E-02			
													U-238	[5.0800E+02 g]	3.81402E-01	6.4010E+00	1.7300E-01			
													Subtotal			5.3757E+01	1.4529E+00			
													Total			5.3757E+01	1.4529E+00			
													SNM:	[4.0000E+01 g]						
													Source:	[6.9000E-02 kgs]						



**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
**0674-04-028**

3. PAGE 3 OF 4 PAGE(S)

**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C	
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION					
					ALPHA	BETA-GAMMA				CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT					
												RADIONUCLIDES					
												pCi/gm		MBq		mCi	
WSM-13/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9389.3627	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	e/	oxid NA	Th-228	[1.0800E-11 kgs]	1.94669E-02	3.2671E-01	8.8300E-03	AS
		250.0000	10.3500	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100			Th-232	[6.6000E-02 kgs]	1.60718E-02	(2.6973E-01)	(7.2900E-03)	
												Th-234	[1.6100E-12 kgs]	8.15715E-02	1.3690E+00	3.7000E-02	
												U-234	[1.7700E-01 g]	2.40305E+00	4.0330E+01	1.0900E+00	
												U-235	[3.8000E+01 g]	1.79237E-01	3.0081E+00	8.1300E-02	
												U-238	[4.8800E+07 g]	3.65970E-01	(6.1420E+00)	(1.6600E-01)	
												Subtotal			4.5034E+01	1.2171E+00	
												Total			4.5034E+01	1.2171E+00	
												SNM:	[3.8000E+01 g]				
												Source:	[1.2410E-11 kgs]				
WSM-14/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9774.9162	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	e/	oxid NA	Th-228	[1.1200E-11 kgs]	2.02827E-02	3.4040E-01	9.2000E-03	AS
		250.0000	10.7750	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100			Th-232	[6.9000E-02 kgs]	1.67332E-02	2.8083E-01	7.5900E-03	
												Th-234	[1.6700E-12 kgs]	8.48785E-02	1.4245E+00	3.8500E-02	
												U-234	[1.8400E-01 g]	2.51329E+00	4.2180E+01	1.1400E+00	
												U-235	[4.0000E+01 g]	1.86512E-01	3.1302E+00	8.4600E-02	
												U-238	[5.0800E+02 g]	3.81402E-01	6.4010E+00	1.7300E-01	
												Subtotal			5.3757E+01	1.4529E+00	
												Total			5.3757E+01	1.4529E+00	
												SNM:	[4.0000E+01 g]				
												Source:	[6.9000E-02 kgs]				
WSM-15/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9661.5181	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	e/	oxid NA	Th-228	[1.1100E-11 kgs]	2.00401E-02	3.3633E-01	9.0900E-03	AS
		250.0000	10.6500	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100			Th-232	[6.8000E-02 kgs]	1.65568E-02	2.7787E-01	7.5100E-03	
												Th-234	[1.6500E-12 kgs]	8.39966E-02	1.4097E+00	3.8100E-02	
												U-234	[1.8200E-01 g]	2.49124E+00	4.1810E+01	1.1300E+00	
												U-235	[3.9000E+01 g]	1.84528E-01	3.0969E+00	8.3700E-02	
												U-238	[5.0200E+02 g]	3.76993E-01	6.3270E+00	1.7100E-01	
												Subtotal			5.3258E+01	1.4394E+00	
												Total			5.3258E+01	1.4394E+00	
												SNM:	[3.9000E+01 g]				
												Source:	[6.8000E-02 kgs]				

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-028

3. PAGE 4 OF 4 PAGE(S)

**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C	
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION					
					ALPHA	BETA-GAMMA				CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT					
												RADIONUCLIDES	pCi/gm	MBq	mCi		
WSM-16/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9865.6347	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	el	oxid NA	Th-228	[1.1300E-11 kgs]	2.04590E-02	3.4336E-01	9.2800E-03	AS
		250.0000	10.8750	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100			Th-232	[7.0000E-02 kgs]	1.68875E-02	2.8342E-01	7.6600E-03	
												Th-234	[1.6900E-12 kgs]	8.57604E-02	1.4393E+00	3.8900E-02	
												U-234	[1.8600E-01 g]	2.62352E+00	(4.4030E+01)	(1.1900E+00)	
												U-235	[4.0000E+01 g]	1.88276E-01	3.1598E+00	8.5400E-02	
												U-238	[5.0200E+02 g]	3.83607E-01	6.4380E+00	1.7400E-01	
												Subtotal			1.1664E+01	3.1524E-01	
												Total			1.1664E+01	3.1524E-01	
												SNM:	[4.0000E+01 g]				
												Source:	[7.0000E-02 kgs]				
Shipment Totals		63.7128	84005.3124									SNM:	[3.4100E+02 g]		4.1297E+02	1.1161E+01	
		2250.0000	92.6000									Source:	[5.2600E-01 kgs]				

**UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST  
ISOTOPES REPORT**

For Manifest # 0674-04-028  
Envirocare of Utah, Inc.

<u>Isotope</u>	<u>Total Activity</u>	
	<u>(MBq)</u>	<u>(mCi)</u>
Th-228	2.9245E+00	7.9040E-02
Th-232	2.4139E+00	6.5240E-02
Th-234	1.2247E+01	3.3100E-01
U-234	3.6397E+02	9.8370E+00
U-235	2.6910E+01	7.2730E-01
U-238	5.4945E+01	1.4850E+00

<b>FORM 540</b> <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER</b>		<b>Envirocare of Utah, Inc.</b>		<b>5 SHIPPER - NAME AND FACILITY</b> Westinghouse Electric Company - SMP RD #4 Box 333 Westinghouse Road Blairsville, PA 15717				<b>SHIPMENT I.D. NUMBER</b> NA		<b>7 FORM 540 AND 540A</b> PAGE 1 OF 2 PAGE(S) <b>FORM 541 AND 541A</b> 4 PAGE(S) <b>FORM 542 AND 542A</b> None PAGE(S) ADDITIONAL INFORMATION None PAGE(S)			<b>8 MANIFEST NUMBER</b> (Use this number on all continuation pages) <b>0674-04-029</b>	
<b>1 EMERGENCY TELEPHONE NUMBER</b> (Include Area Code) 412-374-4019				<b>Utah Generator Site Access Permit No</b> NA		<b>SHIPMENT NUMBER</b> NA		<input checked="" type="checkbox"/> <b>COLLECTOR</b> <input type="checkbox"/> <b>PROCESSOR</b>		<b>9 CONSIGNEE - Name and Facility Address</b> Envirocare of Utah, Inc. Clive Disposal Site (Bulk Waste Facility) Interstate 80, Exit 49 Clive, UT 84029			<b>CONTACT</b> Shipping and Receiving TELEPHONE NUMBER (Include Area Code) (435)884-0155	
<b>ORGANIZATION</b> Westinghouse Electric Company				<b>CONTACT</b> Irwin Dobrushin				<b>TELEPHONE NUMBER</b> (Include Area Code) 412-374-6094		SIGNATURE - <i>[Signature]</i> <b>Authorized consignee acknowledging waste receipt</b> DATE <b>12/3/01</b>				
<b>2 IS THIS AN "EXCLUSIVE USE" SHIPMENT?</b> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		<b>3 TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST</b> =====> 9		<b>6 CARRIER - Name and Address</b> MHF Logistical Solutions 129 McCarrell Lane Zelionople, Pa 16063				<b>EPA I.D. NUMBER</b> PAR000000281		<b>10 CERTIFICATION</b> This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked and labeled and are in proper condition for transportation and disposal as described in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.				
<b>4 DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT?</b> If "Yes" provide Manifest Number =====>		<b>EPA MANIFEST NUMBER</b> NA		<b>CONTACT</b> Megan Olczak				<b>TELEPHONE NUMBER</b> (Include Area Code) 724-452-3900		<b>AUTHORIZED SIGNATURE</b> <i>[Signature]</i>		<b>TITLE</b> Sr. Environmental Hygiene	<b>DATE</b> 11/13/01	
<b>11 U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION</b> (Including proper shipping name, hazard class, UN ID number, and any additional information)		<b>12 DOT LABEL "RADIOACTIVE"</b>	<b>13 TRANSPORT INDEX</b>	<b>14 PHYSICAL AND CHEMICAL FORM</b>		<b>15 INDIVIDUAL RADIONUCLIDES</b>				<b>16 TOTAL PACKAGE ACTIVITY</b> MBq mCi		<b>17 LSA/SCO CLASS</b>	<b>18 TOTAL WEIGHT OR VOLUME</b> (Use appropriate units)	<b>19 IDENTIFICATION NUMBER OF PACKAGE</b>
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 Soil		NA	na	Solid / oxide		Th-228 Th-232 U-235 U-238		Th-234 U-234		4.8566E+01 1.3126E+00		NA	19500. LBS; 250. FT3	WSM-06
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 soil		NA	na	Solid / oxide		Th-228 Th-232 U-235 U-238		Th-234 U-234		5.3469E+01 1.4451E+00		NA	22480. LBS; 250. FT3	WSM-10
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 soil		NA	na	Solid / oxide		Th-228 Th-232 U-235 U-238		Th-234 U-234		5.1371E+01 1.3884E+00		NA	21700. LBS; 250. FT3	WSM-21
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 soil		NA	na	Solid / oxide		Th-228 Th-232 U-235 U-238		Th-234 U-234		5.4214E+01 1.4652E+00		NA	21750. LBS; 250. FT3	WSM-24
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 soil		NA	na	Solid / oxide		Th-228 Th-232 U-235 U-238		Th-234 U-234		5.2381E+01 1.4157E+00		NA	21050. LBS; 250. FT3	WSM-25
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 soil		NA	na	Solid / oxide		Th-228 Th-232 U-235 U-238		Th-234 U-234		5.1436E+01 1.3902E+00		NA	20650. LBS; 250. FT3	WSM-26
<b>FOR CONSIGNEE USE ONLY</b> <input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Shipment.				<b>20 TERMS AND CONDITION</b> A <b>HAZARDOUS MATERIALS:</b> Generator represents & warrants that Waste Material _____ is (or) <input checked="" type="checkbox"/> is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1 B <b>TITLE:</b> Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc. C <b>WASTE MATERIAL:</b> Generator represents and warrants that all data set forth in this (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST) are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license. D <b>INDEMNIFICATION:</b> Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST) or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.										



<b>FORM 541</b>  <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST</b>  <b>CONTAINER AND WASTE DESCRIPTION</b>  Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste	Envirocare of Utah, Inc.		1. MANIFEST TOTALS				2. MANIFEST NUMBER 0674-04-029		
	NUMBER OF PACKAGES/ DISPOSAL CONTAINERS	NET WASTE VOLUME	NET WASTE WEIGHT	SPECIAL NUCLEAR MATERIAL (grams)				TOTAL	3. PAGE 1 OF 4 PAGE(S)
				U-233	U-235	Pu			
	9	m3 63.7128 ft3 2250.0000	kg 84994.1440 ton 93.6900	NP	3.4300E+02 9 Packages	NP	3.4300E+02		4. SHIPPER NAME Westinghouse Electric Compan
				ACTIVITY				SOURCE	
				ALL NUCLIDES	TRITIUM	C-14	Tc-99		I-129
			MBq 4.6236E+02	NP	NP	NP	NP	(kgs) 5.9600E-01	
			mCi 1.2496E+01	NP	NP	NP	NP	(tons) 6.5698E-04	

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16 WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C				
5 CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6 CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7 VOLUME (m3) (ft3)	8 WASTE AND CONTAINER WEIGHT (kg) (ton)	9 SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10 SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11 WASTE DESCRIPTOR (See Note 2 & Note 2A)	12 APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13 SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14 CHEMICAL DESCRIPTION		15 RADIOLOGICAL DESCRIPTION								
					ALPHA	BETA-GAMMA				CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL, OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT								
												RADIONUCLIDES								
												Th-228	Th-232	Th-234	U-234	U-235	pCi/gm	MBq	mCi	
WSM-06/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	8845.0518	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	oxid	el	NA	Th-228 [1.0100E-11 kgs]	1.83426E-02	3.0784E-01	8.3200E-03	AS			
		250.0000	9.7500	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100				Th-232 [6.2000E-02 kgs]	1.51459E-02	2.5419E-01	6.8700E-03				
												Th-234 [1.5100E-12 kgs]	7.67213E-02	1.2876E+00	3.4800E-02					
												U-234 [1.6600E-01 g]	2.27078E+00	3.8110E+01	1.0300E+00					
												U-235 [3.6000E+01 g]	1.63875E-01	2.8342E+00	7.6600E-02					
												U-238 [4.6000E+02 g]	3.43923E-01	5.7720E+00	1.5600E-01					
												Subtotal		4.8566E+01	1.3126E+00					
												Total		4.8566E+01	1.3126E+00					
												SNM: [3.6000E+01 g]								
												Source: [6.2000E-02 kgs]								
WSM-10/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	10196.7572	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	oxid	el	NA	Th-228 [1.1700E-11 kgs]	1.17287E-01	1.9684E+00	5.3200E-02	AS			
		250.0000	11.2400	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100				Th-232 [7.2000E-02 kgs]	1.61159E-02	2.7047E-01	7.3100E-03				
												Th-234 [1.7500E-12 kgs]	8.17920E-02	1.3727E+00	3.7100E-02					
												U-234 [1.9200E-01 g]	2.42510E+00	4.0700E+01	1.1000E+00					
												U-235 [4.1000E+01 g]	1.79678E-01	3.0155E+00	8.1500E-02					
												U-238 [5.3000E+02 g]	3.65970E-01	6.1420E+00	1.6600E-01					
												Subtotal		5.3469E+01	1.4451E+00					
												Total		5.3469E+01	1.4451E+00					
												SNM: [4.1000E+01 g]								
												Source: [7.2000E-02 kgs]								

**NOTE 1: Container Description Codes.** For containers/waste requiring disposal in approved structural over-packs the numerical code must be followed by "-OP."

1 Wooden Box or Crate	9. Demineralizer
2 Metal Box	10. Gas Cylinder
3 Plastic Drum or Pail	11 Bulk, Unpackaged Waste
4 Metal Drum or Pail	12 Unpackaged Components
5 Metal Tank or Liner	13 High Integrity Container
6 Concrete Tank or Liner	19 Other Describe in Item 6,
7 Polyethylene Tank or Liner	or additional page.
8 Fiberglass Tank or Liner	

**Note 1A: Bulk Packaging Description Codes** (Choose one code as may be applicable.)

A Gondola
B Intermodal
C End-dump
D Roll-off
E Seavan

**NOTE 2: Waste Descriptor Codes.** (Choose up to three which predominate by volume.)

20. Charcoal	29 Demolition Rubble	38 Evaporator Bottoms/Sludges/ Concentrates
21. Incinerator Ash	30. Cation Ion-exchange Media	39. Compactible Trash
22. Soil	31. Anion Ion-exchange Media	40. Noncompactible Trash
23. Gas	32. Mixed Bed Ion-exchange Media	41. Animal Carcass
24. Oil	33. Contaminated Equipment	42. Biological Material (except animal carcass)
25. Aqueous Liquid	34. Organic Liquid (except oil)	43. Activated Material
26. Filter Media	35. Glassware or Labware	59. Other Describe in item 11, or additional page
27. Mechanical Filter	36. Sealed Source/Device	
28. EPA or State Hazardous	37. Paint or Plating	

**Note 2A: Specific Waste Descriptions** (Choose all applicable codes.)

G Dewatered
H Solid
I Combustible
J Non-combustible
K Air Filtration Filters
L Asbestos

**Note 3: Solidification and Stabilization Media Codes.** (Choose up to three which predominate by volume.) For media meeting disposal site structural stability requirements, the numerical code must be followed by "-S" and the media vendor and brand name must also be identified in item 13. Code 100=NONE REQUIRED

<b>Solidification</b>	
90 Cement	94 Vinyl Ester Styrene
91 Concrete	99 Other Describe in item 13, or additional page
92 Bitumen	
93 Vinyl Chloride	100. None Required

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-029

3. PAGE 2 OF 4 PAGE(S)

**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION							WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C										
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION															
					ALPHA	BETA-GAMMA				CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT															
												RADIONUCLIDES				pCi/gm				MBq				mCi			
WSM-21/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9842.9551	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	el	oxid NA	Th-228	[1.0700E-11 kgs]	1.93347E-02	3.2449E-01	8.7700E-03	AS										
		250.0000	10.8500	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100			Th-232	[6.6000E-02 kgs]	1.59616E-02	2.6788E-01	7.2400E-03											
												Th-234	[1.6000E-12 kgs]	8.09102E-02	1.3579E+00	3.6700E-02											
												U-234	[1.7500E-01 g]	2.40305E+00	4.0330E+01	1.0900E+00											
												U-235	[3.8000E+01 g]	1.77914E-01	2.9859E+00	8.0700E-02											
												U-238	[4.8400E+02 g]	3.63765E-01	6.1050E+00	1.6500E-01											
												Subtotal			5.1371E+01	1.3884E+00											
												Total			5.1371E+01	1.3884E+00											
												SNM:	[3.8000E+01 g]														
												Source:	[6.6000E-02 kgs]														
WSM-24/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9865.6347	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	el	oxid NA	Th-228	[1.1300E-11 kgs]	2.04634E-02	3.4343E-01	9.2820E-03	AS										
		250.0000	10.8750	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100			Th-232	[7.0000E-02 kgs]	1.68875E-02	2.8342E-01	7.6600E-03											
												Th-234	[1.6900E-12 kgs]	8.57604E-02	1.4393E+00	3.8900E-02											
												U-234	[1.8600E-01 g]	2.53533E+00	4.2550E+01	1.1500E+00											
												U-235	[4.0000E+01 g]	1.88276E-01	3.1598E+00	8.5400E-02											
												U-238	[5.1300E+02 g]	3.83607E-01	6.4380E+00	1.7400E-01											
												Subtotal			5.4214E+01	1.4652E+00											
												Total			5.4214E+01	1.4652E+00											
												SNM:	[4.0000E+01 g]														
												Source:	[7.0000E-02 kgs]														
WSM-25/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9548.1200	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	el	oxid NA	Th-228	[1.1000E-11 kgs]	1.97976E-02	3.3226E-01	8.9800E-03	AS										
		250.0000	10.5250	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100			Th-232	[6.7000E-02 kgs]	1.63584E-02	2.7454E-01	7.4200E-03											
												Th-234	[1.6400E-12 kgs]	8.28943E-02	1.3912E+00	3.7600E-02											
												U-234	[1.8000E-01 g]	2.44715E+00	4.1070E+01	1.1100E+00											
												U-235	[3.9000E+01 g]	1.82323E-01	3.0599E+00	8.2700E-02											
												U-238	[4.9600E+02 g]	3.72584E-01	6.2530E+00	1.6900E-01											
												Subtotal			5.2381E+01	1.4157E+00											
												Total			5.2381E+01	1.4157E+00											
												SNM:	[3.9000E+01 g]														
												Source:	[6.7000E-02 kgs]														

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-029

3. PAGE 3 OF 4 PAGE(S)

**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16 WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C		
5 CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6 CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7 VOLUME (m3) (F3)	8 WASTE AND CONTAINER WEIGHT (kg) (ton)	9 SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10 SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11 WASTE DESCRIPTOR (See Note 2 & Note 2A)	12 APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		13 SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION					
					ALPHA	BETA-GAMMA		CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0.1%		INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT							
													RADIONUCLIDES	pCi/gm	MBq	mCi		
WSM-26/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9366.6831	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	100	e/	oxid NA	Th-228	[1.0700E-11 kgs]	1.95794E-02	3.2860E-01	8.8810E-03	AS
		250.0000	10.3250	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	Th-232				[6.6000E-02 kgs]	1.60498E-02	2.6936E-01	7.2800E-03		
													Th-234	[1.6000E-12 kgs]	8.13511E-02	1.3653E+00	3.6900E-02	
													U-234	[1.7600E-01 g]	2.40305E+00	4.0330E+01	1.0900E+00	
													U-235	[3.8000E+01 g]	1.78796E-01	3.0007E+00	8.1100E-02	
													U-238	[4.8700E+02 g]	3.65970E-01	6.1420E+00	1.6600E-01	
													Subtotal			5.1436E+01	1.3902E+00	
													Total			5.1436E+01	1.3902E+00	
													SNM:	[3.8000E+01 g]				
													Source:	[6.6000E-02 kgs]				
WSM-27/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9253.2850	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	100	e/	oxid NA	Th-228	[1.0700E-11 kgs]	1.95794E-02	3.2860E-01	8.8810E-03	AS
		250.0000	10.2000	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	Th-232				[6.6000E-02 kgs]	1.60498E-02	2.6936E-01	7.2800E-03		
													Th-234	[1.6000E-12 kgs]	8.13511E-02	1.3653E+00	3.6900E-02	
													U-234	[1.7600E-01 g]	2.40305E+00	4.0330E+01	1.0900E+00	
													U-235	[3.8000E+01 g]	1.78796E-01	3.0007E+00	8.1100E-02	
													U-238	[4.8700E+02 g]	3.65970E-01	6.1420E+00	1.6600E-01	
													Subtotal			5.1436E+01	1.3902E+00	
													Total			5.1436E+01	1.3902E+00	
													SNM:	[3.8000E+01 g]				
													Source:	[6.6000E-02 kgs]				
WSM-28/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	8981.1295	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	100	e/	oxid NA	Th-228	[1.0300E-11 kgs]	1.86314E-02	3.1269E-01	8.4510E-03	AS
		250.0000	9.9000	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	Th-232				[6.3000E-02 kgs]	1.53884E-02	2.5826E-01	6.9800E-03		
													Th-234	[1.5400E-12 kgs]	7.80441E-02	1.3098E+00	3.5400E-02	
													U-234	[1.6900E-01 g]	2.31487E+00	3.8850E+01	1.0500E+00	
													U-235	[3.6000E+01 g]	1.71521E-01	2.8786E+00	7.7800E-02	
													U-238	[4.6700E+02 g]	3.50537E-01	5.8830E+00	1.5900E-01	
													Subtotal			4.9492E+01	1.3376E+00	
													Total			4.9492E+01	1.3376E+00	
													SNM:	[3.6000E+01 g]				
													Source:	[6.3000E-02 kgs]				



**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-029

3. PAGE 4 OF 4 PAGE(S)

**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION							WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER							16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C				
5 CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6 CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7 VOLUME (m3) (ft3)	8 WASTE AND CONTAINER WEIGHT (kg) (ton)	9 SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10 SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11 WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		13 SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION					
					ALPHA	BETA-GAMMA		CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0.1%		INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT							
													RADIONUCLIDES	pCi/gm	MBq	mCi		
WSM-30/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9094.5276	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792		100	el	oxid NA	Th-228	[1.0400E-11 kgs]	1.88717E-02	3.1672E-01	8.5600E-03	AS
		250.0000	10.0250	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100	Th-232			[6.4000E-02 kgs]	1.55647E-02	2.6122E-01	7.0600E-03		
													Th-234	[1.5600E-12 kgs]	7.89260E-02	1.3246E+00	3.5800E-02	
													U-234	[1.7100E-01 g]	2.33691E+00	3.9220E+01	1.0600E+00	
													U-235	[3.7000E+01 g]	1.73505E-01	2.9119E+00	7.8700E-02	
													U-238	[4.7300E+02 g]	3.54946E-01	5.9570E+00	1.6100E-01	
													Subtotal			4.9991E+01	1.3511E+00	
													Total			4.9991E+01	1.3511E+00	
													SNM:	[3.7000E+01 g]				
													Source:	[6.4000E-02 kgs]				
Shipment Totals		63.7128	84994.1440										SNM:	[3.4300E+02 g]		4.6236E+02	1.2496E+01	
		2250.0000	93.6900										Source:	[5.9600E-01 kgs]				

**UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST  
ISOTOPES REPORT**

For Manifest # 0674-04-029  
Envirocare of Utah, Inc.

<u>Isotope</u>	<u>Total Activity</u>	
	<u>(MBq)</u>	<u>(mCi)</u>
Th-228	4.5630E+00	1.2333E-01
Th-232	2.4087E+00	6.5100E-02
Th-234	1.2214E+01	3.3010E-01
U-234	3.6149E+02	9.7700E+00
U-235	2.6847E+01	7.2560E-01
U-238	5.4834E+01	1.4820E+00

**ATTACHMENT TO NRC FORM 540**

Manifest Number: 0674-04-029  
Railcar Number: MHFX5294

**6. CARRIER – Name and Address**

**Transporter # 2:**

CARRIER: Norfolk Southern Corporation  
ADDRESS: 3 Commercial Place  
Norfolk, VA 23510-2191  
TELEPHONE: 800-635-5768  
EPA ID #: VAD000650309

Carrier's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**Transporter # 3:**

CARRIER: Union Pacific Railroad Company  
ADDRESS: 1416 Dodge St.  
Omaha, NE 68179  
TELEPHONE: 800-243-5416  
EPA ID #: NED001792910

Carrier's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

<b>FORM 540</b>		<b>Envirocare of Utah, Inc.</b>		5. SHIPPER - NAME AND FACILITY Westinghouse Electric Company - SMP RD #4 Box 333 Westinghouse Road Blairsville, PA 15717				SHIPMENT I.D. NUMBER <b>NA</b>		7. FORM 540 AND 540A PAGE 1 OF 2 PAGE(S) FORM 541 AND 541A 4 PAGE(S) FORM 542 AND 542A None PAGE(S) ADDITIONAL INFORMATION None PAGE(S)			8. MANIFEST NUMBER (Use this number on all continuation pages) <b>0674-04-030</b>									
<b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER</b>												Utah Generator Site Access Permit No NA		SHIPMENT NUMBER NA		<input checked="" type="checkbox"/> GENERATOR TYPE (Specify) <input type="checkbox"/>		9. CONSIGNEE - Name and Facility Address Envirocare of Utah, Inc. Clive Disposal Site (Bulk Waste Facility) Interstate 80, Exit 49 Clive, UT 84029			CONTACT Shipping and Receiving	
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) 412-374-4019				CONTACT Irwin Dobrushin				TELEPHONE NUMBER (Include Area Code) 412-374-6094		SIGNATURE - <i>Authorized consignee acknowledging waste receipt</i> 			TELEPHONE NUMBER (Include Area Code) (435)884-0155									
ORGANIZATION Westinghouse Electric Company				6. CARRIER - Name and Address MHF Logistical Solutions 129 McCarrell Lane Zelionople, Pa 16063				EPA I.D. NUMBER PAR000000281		SIGNATURE - <i>Authorized carrier acknowledging waste receipt</i> 			DATE 11-26-01									
2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST <u>9</u>		CONTACT Megan Olczak				SHIPPING DATE NA		10. CERTIFICATION This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations			DATE 11/13/01									
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number <u>                    </u>		EPA MANIFEST NUMBER NA		CONTACT Megan Olczak				TELEPHONE NUMBER (Include Area Code) 724-452-3900		AUTHORIZED SIGNATURE <i>Irwin Dobrushin</i>			TITLE Sr Ind. Hys									
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)		12. DOT LABEL "RADIOACTIVE"		13. TRANSPORT INDEX		14. PHYSICAL AND CHEMICAL FORM		15. INDIVIDUAL RADIONUCLIDES		16. TOTAL PACKAGE ACTIVITY MBq		17. LSA/SCO CLASS		18. TOTAL WEIGHT OR VOLUME (Use appropriate units)		19. IDENTIFICATION NUMBER OF PACKAGE						
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 U-235 U-238 Th-234 U-234		5.1371E+01 1.3884E+00		NA		20550. LBS; 250. FT3		WSM-22						
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 U-235 U-238 Th-234 U-234		5.1434E+01 1.3901E+00		NA		20660. LBS; 250. FT3		WSM-23						
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 U-235 U-238 Th-234 U-234		5.1371E+01 1.3884E+00		NA		20550. LBS; 250. FT3		WSM-29						
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 U-235 U-238 Th-234 U-234		5.0424E+01 1.3628E+00		NA		20300. LBS; 250. FT3		WSM-31						
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 U-235 U-238 Th-234 U-234		5.2306E+01 1.4137E+00		NA		20900. LBS; 250. FT3		WSM-32						
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 U-235 U-238 Th-234 U-234		4.8545E+01 1.3120E+00		NA		19400. LBS; 250. FT3		WSM-33						
FOR CONSIGNEE USE ONLY				<input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Shipment.				20. TERMS AND CONDITION A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material _____ is (or) <input checked="" type="checkbox"/> is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1. B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc. C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST) are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license. D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST,) or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.														

BILLING ONLY



ATTACHMENT TO NRC FORM 540

Manifest Number: 0674-04-030  
Railcar Number: MHFX5275

6. CARRIER - Name and Address

Transporter # 2:

CARRIER: Norfolk Southern Corporation  
ADDRESS: 3 Commercial Place  
Norfolk, VA 23510-2191  
TELEPHONE: 800-635-5768  
EPA ID #: VAD000650309

Carrier's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Transporter # 3:

CARRIER: Union Pacific Railroad Company  
ADDRESS: 1416 Dodge St.  
Omaha, NE 68179  
TELEPHONE: 800-243-5416  
EPA ID #: NED001792910

Carrier's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

<b>FORM 541</b>  <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST</b>  <b>CONTAINER AND WASTE DESCRIPTION</b>  Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste	<b>Envirocare of Utah, Inc.</b>		<b>1. MANIFEST TOTALS</b>				<b>2. MANIFEST NUMBER</b> <b>0674-04-030</b>							
	<b>NUMBER OF PACKAGES/ DISPOSAL CONTAINERS</b>		<b>NET WASTE VOLUME</b>		<b>NET WASTE WEIGHT</b>		<b>SPECIAL NUCLEAR MATERIAL (grams)</b>							
	<b>9</b>		<b>m3 63.7128</b>		<b>kg 84418.0815</b>		<b>U-233</b>		<b>U-235</b>		<b>Pu</b>		<b>TOTAL</b>	
	<b>9</b>		<b>fl3 2250.0000</b>		<b>ton 93.0550</b>		<b>NP</b>		<b>3.4300E+02</b> <b>9 Packages</b>		<b>NP</b>		<b>3.4300E+02</b>	
	<b>ACTIVITY</b>		<b>ALL NUCLIDES</b>		<b>TRITIUM</b>		<b>C-14</b>		<b>Tc-99</b>		<b>I-129</b>		<b>SOURCE</b>	
	<b>MBq</b>		<b>4.6274E+02</b>		<b>NP</b>		<b>NP</b>		<b>NP</b>		<b>NP</b>		<b>(kgs) 1.1990E+00</b>	
<b>mCi</b>		<b>1.2506E+01</b>		<b>NP</b>		<b>NP</b>		<b>NP</b>		<b>NP</b>		<b>(tons) 1.3217E-03</b>		
<b>SHIPMENT ID NUMBER</b>		<b>NA</b>												

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C		
5 CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6 CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7 VOLUME (m3) (ft3)	8 WASTE AND CONTAINER WEIGHT (kg) (ton)	9 SURFACE RADIATION LEVEL mSv/hr mrem/hr	10 SURFACE CONTAMINATION MBq/100 cm2 dpm/100 cm2		11 WASTE DESCRIPTOR (See Note 2 & Note 2A)	12 APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		13 SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14 CHEMICAL FORM/ CHELATING AGENT		WEIGHT % CHELATING AGENT IF>0.1%	15 RADIOLOGICAL DESCRIPTION INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT				
					ALPHA	BETA-GAMMA		RADIONUCLIDES	pCi/gm		MBq	mCi						
WSM-22/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9321.3238	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	100	e/	oxid NA	Th-228	[1.0700E-11 kgs]	1.93347E-02	3.2449E-01	8.7700E-03	AS
		250.0000	10.2750	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100				Th-232	[6.6000E-02 kgs]	1.59616E-02	2.6788E-01	7.2400E-03	
													U-234	[1.7500E-01 g]	2.40305E+00	4.0330E+01	1.0900E+00	
													U-235	[3.8000E+01 g]	1.77914E-01	2.9859E+00	8.0700E-02	
													U-238	[4.8400E+02 g]	3.63765E-01	6.1050E+00	1.6500E-01	
													Subtotal			5.1371E+01	1.3884E+00	
													Total			5.1371E+01	1.3884E+00	
													SNM:	[3.8000E+01 g]				
													Source:	[6.6000E-02 kgs]				
WSM-23/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9371.2190	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	100	e/	oxid NA	Th-228	[1.0800E-11 kgs]	1.94449E-02	3.2634E-01	8.8200E-03	AS
		250.0000	10.3300	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100				Th-232	[6.6000E-02 kgs]	1.60498E-02	2.6936E-01	7.2800E-03	
													U-234	[1.7500E-01 g]	2.40305E+00	4.0330E+01	1.0900E+00	
													U-235	[3.8000E+01 g]	1.78796E-01	3.0007E+00	8.1100E-02	
													U-238	[4.8700E+02 g]	3.65970E-01	6.1420E+00	1.6600E-01	
													Subtotal			5.1434E+01	1.3901E+00	
													Total			5.1434E+01	1.3901E+00	
													SNM:	[3.8000E+01 g]				
													Source:	[6.6000E-02 kgs]				

**NOTE 1: Container Description Codes.** For containers/waste requiring disposal in approved structural overpacks the numerical code must be followed by "-OP."

1. Wooden Box or Crate	9. Demineralizer
2. Metal Box	10. Gas Cylinder
3. Plastic Drum or Pail	11. Bulk, Unpackaged Waste
4. Metal Drum or Pail	12. Unpackaged Components
5. Metal Tank or Liner	13. High Integrity Container
6. Concrete Tank or Liner	19. Other Describe in Item 6,
7. Polyethylene Tank or Liner	or additional page.
8. Fiberglass Tank or Liner	

**Note 1A: Bulk Packaging Description Codes** (Choose one code as may be applicable.)

A Gondola
B Intermodal
C End-dump
D Roll-off
E Seavan

**NOTE 2: Waste Descriptor Codes.** (Choose up to three which predominate by volume.)

20. Charcoal	29. Demolition Rubble	38. Evaporator Bottoms/Sludges/ Concentrates
21. Incinerator Ash	30. Cation Ion-exchange Media	39. Compactible Trash
22. Soil	31. Anion Ion-exchange Media	40. Noncompactible Trash
23. Gas	32. Mixed Bed Ion-exchange Media	41. Animal Carcass
24. Oil	33. Contaminated Equipment	42. Biological Material (except animal carcass)
25. Aqueous Liquid	34. Organic Liquid (except oil)	43. Activated Material
26. Filter Media	35. Glassware or Labware	59. Other. Describe in item 11, or additional page
27. Mechanical Filter	36. Sealed Source/Device	
28. EPA or State Hazardous	37. Paint or Plating	

**Note 2A: Specific Waste Descriptions** (Choose all applicable codes.)

G Dewatered
H Solid
I Combustible
J Non-combustible
K Air Filtration Filters
L Asbestos

**Note 3: Solidification and Stabilization Media Codes.** (Choose up to three which predominate by volume.) For media meeting disposal site structural stability requirements, the numerical code must be followed by "-S" and the media vendor and brand name must also be identified in item 13. Code 100=NONE REQUIRED

<b>Solidification</b>	
90. Cement	94. Vinyl Ester Styrene
91. Concrete (encapsulation)	99. Other Describe in item 13, or additional page
92. Bitumen	
93. Vinyl Chloride	100. None Required

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
**0674-04-030**

3. PAGE 2 OF 4 PAGE(S)

DISPOSAL CONTAINER DESCRIPTION							CONTAINER AND WASTE DESCRIPTION (CONTINUATION)							WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER							16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION								
					ALPHA	BETA-GAMMA		CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0.1%		INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT										
													RADIONUCLIDES	pCi/gm	MBq	mCi					
WSM-29/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9321.3238	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	100	e/	oxid NA	Th-228	[1.0700E-11 kgs]	1.93347E-02	3.2449E-01	8.7700E-03	AS			
		250.0000	10.2750	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100				Th-232	[6.6000E-02 kgs]	1.59616E-02	2.6788E-01	7.2400E-03				
													Th-234	[1.6000E-12 kgs]	8.09102E-02	1.3579E+00	3.6700E-02				
													U-234	[1.7500E-01 g]	2.40305E+00	4.0330E+01	1.0900E+00				
													U-235	[3.8000E+01 g]	1.77914E-01	2.9859E+00	8.0700E-02				
													U-238	[4.8400E+02 g]	3.63765E-01	6.1050E+00	1.6500E-01				
													Subtotal		5.1371E+01	1.3884E+00					
													Total		5.1371E+01	1.3884E+00					
													SNM:	[3.8000E+01 g]							
													Source:	[6.6000E-02 kgs]							
WSM-31/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9207.9257	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	100	e/	oxid NA	Th-228	[1.0600E-11 ]	1.90922E-02	(3.2042E-01)	(8.6600E-03)	AS			
		250.0000	10.1500	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100				Th-232	[6.5000E-02 kgs]	1.57631E-02	2.6455E-01	7.1500E-03				
													Th-234	[1.5800E-12 kgs]	8.00283E-02	1.3431E+00	3.6300E-02				
													U-234	[1.7300E-01 g]	2.35896E+00	3.9590E+01	1.0700E+00				
													U-235	[3.7000E+01 g]	1.75710E-01	2.9489E+00	7.9700E-02				
													U-238	[4.7900E+02 g]	3.54946E-01	5.9570E+00	1.6100E-01				
													Subtotal		5.0104E+01	1.3542E+00					
													Total		5.0104E+01	1.3542E+00					
													SNM:	[3.7000E+01 g]							
													Source:	[6.5000E-02 kgs]							
WSM-32/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9480.0812	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	100	e/	oxid NA	Th-228	[1.0900E-11 ]	1.96654E-02	(3.3004E-01)	(8.9200E-03)	AS			
		250.0000	10.4500	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100				Th-232	[6.7000E-01 kgs]	1.62261E-02	2.7232E-01	7.3600E-03				
													Th-234	[1.6200E-12 kgs]	8.22329E-02	1.3801E+00	3.7300E-02				
													U-234	[1.7800E-01 g]	2.44715E+00	4.1070E+01	1.1100E+00				
													U-235	[3.8000E+01 g]	1.81001E-01	3.0377E+00	8.2100E-02				
													U-238	[4.9300E+02 g]	3.70379E-01	6.2160E+00	1.6800E-01				
													Subtotal		5.1976E+01	1.4048E+00					
													Total		5.1976E+01	1.4048E+00					
													SNM:	[3.8000E+01 g]							
													Source:	[6.7000E-01 kgs]							



**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-030

3. PAGE 3 OF 4 PAGE(S)

**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C			
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION						
					ALPHA	BETA-GAMMA		CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0.1%		INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT								
													RADIONUCLIDES	pCi/gm	MBq	mCi			
WSM-33/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	8799.6926	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	e/	oxid	NA	Th-228	[1.0100E-11 ]	1.82544E-02	(3.0636E-01)	(8.2800E-03)	AS	
		250.0000	9.7000	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100				Th-232	[6.2000E-02 kgs]	1.50797E-02	2.5308E-01	6.8400E-03		
													Th-234	[1.5100E-12 kgs]	7.65009E-02	1.2839E+00	3.4700E-02		
													U-234	[1.6500E-01 g]	2.27078E+00	3.8110E+01	1.0300E+00		
													U-235	[3.6000E+01 g]	1.67993E-01	2.8194E+00	7.6200E-02		
													U-238	[4.5700E+02 g]	3.43923E-01	5.7720E+00	1.5600E-01		
													Subtotal		4.8238E+01	1.3037E+00			
													Total		4.8238E+01	1.3037E+00			
													SNM:	[3.6000E+01 g]					
													Source:	[6.2000E-02 kgs]					
WSM-34/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9797.5958	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	e/	oxid	NA	Th-228	[1.1200E-11 ]	2.03267E-02	(3.4114E-01)	(9.2200E-03)	AS	
		250.0000	10.8000	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100				Th-232	[6.9000E-02 kgs]	1.67773E-02	2.8157E-01	7.6100E-03		
													Th-234	[1.6800E-12 kgs]	8.50990E-02	1.4282E+00	3.8600E-02		
													U-234	[1.8400E-01 g]	2.51329E+00	4.2180E+01	1.1400E+00		
													U-235	[4.0000E+01 g]	1.86953E-01	3.1376E+00	8.4800E-02		
													U-238	[5.0900E+02 g]	3.81402E-01	6.4010E+00	1.7300E-01		
													Subtotal		5.3428E+01	1.4440E+00			
													Total		5.3428E+01	1.4440E+00			
													SNM:	[4.0000E+01 g]					
													Source:	[6.9000E-02 kgs]					
WSM-35/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9344.0034	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	e/	oxid	NA	Th-228	[1.0700E-11 ]	1.93788E-02	(3.2523E-01)	(8.7900E-03)	AS	
		250.0000	10.3000	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100				Th-232	[6.6000E-02 kgs]	1.60057E-02	2.6862E-01	7.2600E-03		
													Th-234	[1.6000E-12 kgs]	8.11306E-02	1.3616E+00	3.6800E-02		
													U-234	[1.7600E-01 g]	2.40305E+00	4.0330E+01	1.0900E+00		
													U-235	[3.8000E+01 g]	1.78355E-01	2.9933E+00	8.0900E-02		
													U-238	[4.8600E+02 g]	3.63765E-01	6.1050E+00	1.6500E-01		
													Subtotal		5.1059E+01	1.3800E+00			
													Total		5.1059E+01	1.3800E+00			
													SNM:	[3.8000E+01 g]					
													Source:	[6.6000E-02 kgs]					

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-030

3. PAGE 4 OF 4 PAGE(S)

DISPOSAL CONTAINER DESCRIPTION				CONTAINER AND WASTE DESCRIPTION (CONTINUATION)				WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER					16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C					
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION						
					ALPHA	BETA-GAMMA	11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT						
												RADIONUCLIDES	pCi/gm	MBq	mCi			
WSM-45/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9774.9162	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	e/	oxid NA		Th-228	[1.1200E-11 kgs]	2.02827E-02	3.4040E-01	9.2000E-03	AS
		250.0000	10.7750	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100				Th-232	[6.9000E-02 kgs]	1.67332E-02	2.8083E-01	7.5900E-03	
													Th-234	[1.6700E-12 kgs]	8.48785E-02	1.4245E+00	3.8500E-02	
													U-234	[1.8400E-01 g]	2.51329E+00	4.2180E+01	1.1400E+00	
													U-235	[4.0000E+01 g]	1.86512E-01	3.1302E+00	8.4600E-02	
													U-238	[5.0800E+02 g]	3.81402E-01	6.4010E+00	1.7300E-01	
													Subtotal			5.3757E+01	1.4529E+00	
													===== Total			5.3757E+01	1.4529E+00	
													SNM:	[4.0000E+01 g]				
													Source:	[6.9000E-02 kgs]				
Shipment Totals		63.7128	84418.0815										SNM:	[3.4300E+02 g]		4.6274E+02	1.2506E+01	
		2250.0000	93.0550										Source:	[1.1990E+00 kgs]				

**UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST  
ISOTOPES REPORT**

For Manifest # 0674-04-030  
Envirocare of Utah, Inc.

<u>Isotope</u>	<u>Total Activity</u>	
	<u>(MBq)</u>	<u>(mCi)</u>
Th-228	2.9389E+00	7.9430E-02
Th-232	2.4261E+00	6.5570E-02
Th-234	1.2303E+01	3.3250E-01
U-234	3.6445E+02	9.8500E+00
U-235	2.7040E+01	7.3080E-01
U-238	5.5204E+01	1.4920E+00

<b>FORM 540</b> <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST</b> <b>SHIPPING PAPER</b>		<b>Envirocare of Utah, Inc.</b>		<b>5. SHIPPER - NAME AND FACILITY</b> Westinghouse Electric Company - SMP RD #4 Box 333 Westinghouse Road Blairsville, PA 15717				<b>SHIPMENT I.D. NUMBER</b> NA		<b>7. FORM 540 AND 540A</b> PAGE 1 OF 2 PAGE(S) <b>FORM 541 AND 541A</b> 4 PAGE(S) <b>FORM 542 AND 542A</b> None PAGE(S) ADDITIONAL INFORMATION None PAGE(S)			<b>8. MANIFEST NUMBER</b> (Use this number on all continuation pages) <b>0674-04-31</b>				
<b>1. EMERGENCY TELEPHONE NUMBER</b> (Include Area Code) 412-374-4019				Utah Generator Site Access Permit No. NA		SHIPMENT NUMBER NA		<input checked="" type="checkbox"/> GENERATOR TYPE (Specify) O		<b>9. CONSIGNEE - Name and Facility Address</b> Envirocare of Utah, Inc. Clive Disposal Site (Bulk Waste Facility) Interstate 80, Exit 49 Clive, UT 84029			<b>CONTACT</b> Shipping and Receiving				
<b>ORGANIZATION</b> Westinghouse Electric Company				<b>CONTACT</b> Irwin Dobrushin				<b>TELEPHONE NUMBER</b> (Include Area Code) 412-374-6094		(435)884-0155			<b>TELEPHONE NUMBER</b> (Include Area Code)				
<b>2. IS THIS AN "EXCLUSIVE USE" SHIPMENT?</b> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		<b>3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST</b> 9		<b>6. CARRIER - Name and Address</b> MHF Logistical Solutions 129 McCarrell Lane Zelionople, Pa 16063				<b>EPA I.D. NUMBER</b> PAR000000281		<b>SIGNATURE - Authorized consignee acknowledging waste receipt</b> 			<b>DATE</b> 11-26-01				
<b>4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT?</b> If "Yes," provide Manifest Number		<b>EPA MANIFEST NUMBER</b> NA		<b>CONTACT</b> Megan Olczak				<b>TELEPHONE NUMBER</b> (Include Area Code) 724-452-3900		<b>10. CERTIFICATION</b> This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations			<b>DATE</b> 11/13/01				
<b>4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT?</b> If "Yes," provide Manifest Number				<b>EPA MANIFEST NUMBER</b> NA		<b>SIGNATURE - Authorized carrier acknowledging waste receipt</b> 				<b>DATE</b> 11/13/01		<b>AUTHORIZED SIGNATURE</b> 		<b>TITLE</b> Sr. Prod. Mgr.		<b>DATE</b> 11/13/01	
<b>11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION</b> (Including proper shipping name, hazard class, UN ID number, and any additional information)		<b>12. DOT LABEL "RADIOACTIVE"</b>		<b>13. TRANSPORT INDEX</b>		<b>14. PHYSICAL AND CHEMICAL FORM</b>		<b>15. INDIVIDUAL RADIONUCLIDES</b>		<b>16. TOTAL PACKAGE ACTIVITY MBq</b>		<b>17. LSA/SCO CLASS</b>		<b>18. TOTAL WEIGHT OR VOLUME (Use appropriate units)</b>		<b>19. IDENTIFICATION NUMBER OF PACKAGE</b>	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 U-234 U-235 U-238		5.4214E+01 1.4652E+00		NA		21750. LBS; 250. FT3		WSM-36	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 U-234 U-235 U-238		5.1878E+01 1.4021E+00		NA		20800. LBS; 250. FT3		WSM-37	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 U-234 U-235 U-238		5.3770E+01 1.4532E+00		NA		21600. LBS; 250. FT3		WSM-38	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 U-234 U-235 U-238		5.6097E+01 1.5161E+00		NA		22500. LBS; 250. FT3		WSM-39	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 U-234 U-235 U-238		5.3770E+01 1.4532E+00		NA		21600. LBS; 250. FT3		WSM-40	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 U-234 U-235 U-238		5.4642E+01 1.4768E+00		NA		21850. LBS; 250. FT3		WSM-41	
<b>FOR CONSIGNEE USE ONLY</b>				Record Waste Description Inadequate Contamination or Leakage Detected Unexpected Exposure Rates Detected Labels, Markings, etc. Inadequate Container Integrity Inadequate <input checked="" type="checkbox"/> Other No Violations Detected on this Shipment.				<b>20. TERMS AND CONDITION</b> A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material _____ is (or) <input checked="" type="checkbox"/> is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1 B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc. C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST) are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST,) or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.									

BILLING ONLY



**ATTACHMENT TO NRC FORM 540**

Manifest Number: 0674-001-031  
Railcar Number: MHFX5276

**6. CARRIER - Name and Address**

**Transporter # 2:**

**CARRIER:** Norfolk Southern Corporation  
**ADDRESS:** 3 Commercial Place  
Norfolk, VA 23510-2191  
**TELEPHONE:** 800-635-5768  
**EPA ID #:** VAD000650309

**Carrier's Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Transporter # 3:**

**CARRIER:** Union Pacific Railroad Company  
**ADDRESS:** 1416 Dodge St.  
Omaha, NE 68179  
**TELEPHONE:** 800-243-5416  
**EPA ID #:** NED001792910

**Carrier's Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST**

**CONTAINER AND WASTE DESCRIPTION**

Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste

NUMBER OF PACKAGES/ DISPOSAL CONTAINERS	NET WASTE VOLUME		NET WASTE WEIGHT		1. MANIFEST TOTALS				2. MANIFEST NUMBER <b>0674-04-31</b>
	SPECIAL NUCLEAR MATERIAL (grams)				U-233	U-235	Pu	TOTAL	
	m3		kg						
	9		63.7128		88201.0421		9 Packages		
ft3		2250.0000		ton		97.2250		3.5700E+02	
ACTIVITY									
ALL NUCLIDES		TRITIUM		C-14		Tc-99		I-129	
MBq		3.5723E+02		NP		NP		NP	
mCi		9.6548E+00		NP		NP		NP	
SOURCE								1.8470E+00 (kgs)	
SOURCE								2.0360E-03 (tons)	
4. SHIPPER NAME Westinghouse Electric Compan									
SHIPMENT ID NUMBER NA									

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C				
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION								
					ALPHA	BETA-GAMMA	11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT								
												RADIONUCLIDES								
												pCi/gm		MBq		mCi				
WSM-36/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9865.6347	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	100	e/ oxid	NA	Th-228	[1.1300E-11]	2.04590E-02	(3.4336E-01)	(9.2800E-03)	AS		
		250.0000	10.8750	5.0000E-01	<2.000E+01	<1.500E+02	250.0000						Th-232	[7.0000E-02 kgs]	1.68875E-02	2.8342E-01	7.6600E-03			
												Th-234	[1.6900E-12 kgs]	8.57604E-02	1.4393E+00	3.8900E-02				
												U-234	[1.8600E-01 g]	2.53533E+00	4.2550E+01	1.1500E+00				
												U-235	[4.0000E+01 g]	1.88276E-01	3.1598E+00	8.5400E-02				
												U-238	[5.1300E+02 g]	3.83607E-01	6.4380E+00	1.7400E-01				
												Subtotal			5.3871E+01	1.4560E+00				
												Total			5.3871E+01	1.4560E+00				
												SNM:	[4.0000E+01 g]							
												Source:	[7.0000E-02 kgs]							
WSM-37/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9434.7219	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	100	e/ oxid	NA	Th-228	[1.0800E-11]	1.95772E-02	(3.2856E-01)	(8.8800E-03)	AS		
		250.0000	10.4000	5.0000E-01	<2.000E+01	<1.500E+02	250.0000						Th-232	[6.7000E-02 kgs]	1.61600E-02	2.7121E-01	7.3300E-03			
												Th-234	[1.6200E-12 kgs]	8.20125E-02	1.3764E+00	3.7200E-02				
												U-234	[1.7700E-01 g]	2.42510E+00	4.0700E+01	1.1000E+00				
												U-235	[3.8000E+01 g]	1.80119E-01	3.0229E+00	8.1700E-02				
												U-238	[4.9000E+02 g]	3.68174E-01	6.1790E+00	1.6700E-01				
												Subtotal			5.1550E+01	1.3932E+00				
												Total			5.1550E+01	1.3932E+00				
												SNM:	[3.8000E+01 g]							
												Source:	[6.7000E-02 kgs]							

**NOTE 1: Container Description Codes.** For containers/waste requiring disposal in approved structural overpacks the numerical code must be followed by "-OP."

- 1. Wooden Box or Crate
- 2. Metal Box
- 3. Plastic Drum or Pail
- 4. Metal Drum or Pail
- 5. Metal Tank or Liner
- 6. Concrete Tank or Liner
- 7. Polyethylene Tank or Liner
- 8. Fiberglass Tank or Liner
- 9. Demineralizer
- 10. Gas Cylinder
- 11. Bulk, Unpackaged Waste
- 12. Unpackaged Components
- 13. High Integrity Container
- 19. Other Describe in Item 6, or additional page

**Note 1A: Bulk Packaging Description Codes** (Choose one code as may be applicable.)

- A Gondola
- B Intermodal
- C End-dump
- D Roll-off
- E Seavan

**NOTE 2: Waste Descriptor Codes.** (Choose up to three which predominate by volume.)

- 20 Charcoal
- 21. Incinerator Ash
- 22 Soil
- 23 Gas
- 24 Oil
- 25 Aqueous Liquid
- 26 Filter Media
- 27. Mechanical Filter
- 28 EPA or State Hazardous
- 29. Demolition Rubble
- 30. Cation Ion-exchange Media
- 31. Anion Ion-exchange Media
- 32 Mixed Bed Ion-exchange Media
- 33 Contaminated Equipment
- 34. Organic Liquid (except oil)
- 35. Glassware or Labware
- 36. Sealed Source/Device
- 37 Paint or Plating
- 38. Evaporator Bottoms/Sludges/ Concentrates
- 39. Compactible Trash
- 40 Noncompactible Trash
- 41. Animal Carcass
- 42. Biological Material (except animal carcass)
- 43. Activated Material
- 59 Other. Describe in item 11, or additional page

**Note 2A: Specific Waste Descriptions** (Choose all applicable codes.)

- G Dewatered
- H Solid
- I Combustible
- J Non-combustible
- K Air Filtration Filters
- L Asbestos

**Note 3: Solidification and Stabilization Media Codes.** (Choose up to three which predominate by volume.) For media meeting disposal site structural stability requirements, the numerical code must be followed by "-S" and the media vendor and brand name must also be identified in item 13. Code 100=NONE REQUIRED

- Solidification
- 90. Cement
- 91. Concrete (encapsulation)
- 92. Bitumen
- 93 Vinyl Chloride
- 94. Vinyl Ester Styrene
- 99. Other Describe in item 13, or additional page
- 100 None Required.

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-31

3. PAGE 2 OF 4 PAGE(S)

DISPOSAL CONTAINER DESCRIPTION			CONTAINER AND WASTE DESCRIPTION (CONTINUATION)				WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER								16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C				
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (R3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)		12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION					
					ALPHA	BETA-GAMMA	WASTE TYPE	WASTE VOLUME	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0.1%		INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT							
													RADIONUCLIDES						
															pCi/gm	MBq	mCi		
WSM-38/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9797.5958	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	100	7.0792	100	el	oxid	NA	Th-228	[1.1200E-11 ]	2.03267E-02	(3.4114E-01)	(9.2200E-03)	AS
		250.0000	10.8000	5.0000E-01	<2.000E+01	<1.500E+02			250.0000					Th-232	[6.9000E-02 kgs]	1.67773E-02	2.8157E-01	7.6100E-03	
														Th-234	[1.6800E-12 kgs]	8.50990E-02	1.4282E+00	3.8600E-02	
														U-234	[1.8400E-01 g]	2.51329E+00	4.2180E+01	1.1400E+00	
														U-235	[4.0000E+01 g]	1.86953E-01	3.1376E+00	8.4800E-02	
														U-238	[5.0900E+02 g]	3.81402E-01	6.4010E+00	1.7300E-01	
														Subtotal			5.3428E+01	1.4440E+00	
														Total			5.3428E+01	1.4440E+00	
														SNM:	[4.0000E+01 g]				
														Source:	[6.9000E-02 kgs]				
WSM-39/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	10205.8290	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	100	7.0792	100	el	oxid	NA	Th-228	[1.1700E-11 kgs]	2.11645E-02	3.5520E-01	9.6000E-03	AS
		250.0000	11.2500	5.0000E-01	<2.000E+01	<1.500E+02			250.0000					Th-232	[7.2000E-02 kgs]	1.74828E-02	2.9341E-01	7.9300E-03	
														Th-234	[1.7500E-12 kgs]	8.86264E-02	1.4874E+00	4.0200E-02	
														U-234	[1.9200E-01 g]	2.62352E+00	4.4030E+01	1.1900E+00	
														U-235	[4.1000E+01 g]	1.94890E-01	3.2708E+00	8.8400E-02	
														U-238	[5.3000E+02 g]	3.96835E-01	6.6600E+00	1.8000E-01	
														Subtotal			5.6097E+01	1.5161E+00	
														Total			5.6097E+01	1.5161E+00	
														SNM:	[4.1000E+01 g]				
														Source:	[7.2000E-02 kgs]				
WSM-40/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9797.5958	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	100	7.0792	100	el	oxid	NA	Th-228	[1.1200E-11 ]	2.03267E-02	(3.4114E-01)	(9.2200E-03)	AS
		250.0000	10.8000	5.0000E-01	<2.000E+01	<1.500E+02			250.0000					Th-232	[6.9000E-02 kgs]	1.67773E-02	2.8157E-01	7.6100E-03	
														Th-234	[1.6800E-12 kgs]	8.50990E-02	1.4282E+00	3.8600E-02	
														U-234	[1.8400E-01 g]	2.51329E+00	4.2180E+01	1.1400E+00	
														U-235	[4.0000E+01 g]	1.86953E-01	3.1376E+00	8.4800E-02	
														U-238	[5.0900E+02 g]	3.81402E-01	6.4010E+00	1.7300E-01	
														Subtotal			5.3428E+01	1.4440E+00	
														Total			5.3428E+01	1.4440E+00	
														SNM:	[4.0000E+01 g]				
														Source:	[6.9000E-02 kgs]				



**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-31

3. PAGE 3 OF 4 PAGE(S)

DISPOSAL CONTAINER DESCRIPTION			CONTAINER AND WASTE DESCRIPTION (CONTINUATION)				WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER							16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C			
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION					
					ALPHA	BETA-GAMMA	11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF >0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT					
							RADIONUCLIDES		pCi/gm	MBq	mCi						
WSM-41/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9910.9939	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100 100	e/	oxid NA	Th-228	[1.1400E-11]	2.05472E-02	(3.4484E-01)	(9.3200E-03)	AS
		250.0000	10.9250	5.0000E-01	<2.000E+01	<1.500E+02						250.0000	Th-232	[7.0000E-02 kgs]	1.69757E-02	2.8490E-01	
												Th-234	[1.7000E-12 kgs]	8.59808E-02	1.4430E+00	3.9000E-02	
												U-234	[1.8600E-01 g]	2.55738E+00	4.2920E+01	1.1600E+00	
												U-235	[4.0000E+01 g]	1.89158E-01	3.1746E+00	8.5800E-02	
												U-238	[5.1500E+02 g]	3.85811E-01	6.4750E+00	1.7500E-01	
												Subtotal			5.4298E+01	1.4675E+00	
												Total			5.4298E+01	1.4675E+00	
												SNM:	[4.0000E+01 g]				
												Source:	[7.0000E-02 kgs]				
WSM-42/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9933.6736	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100 100	e/	oxid NA	Th-228	[1.1400E-11 kgs]	2.06133E-02	3.4595E-01	9.3500E-03	AS
		250.0000	10.9500	5.0000E-01	<2.000E+01	<1.500E+02						250.0000	Th-232	[7.0000E-02 kgs]	1.70198E-02	2.8564E-01	
												Th-234	[1.7000E-12 kgs]	8.62013E-02	1.4467E+00	3.9100E-02	
												U-234	[1.8700E-01 g]	2.55738E+00	(4.2920E+01)	(1.1600E+00)	
												U-235	[4.0000E+01 g]	1.89599E-01	3.1820E+00	8.6000E-02	
												U-238	[5.1600E+02 g]	3.88016E-01	6.5120E+00	1.7600E-01	
												Subtotal			1.1772E+01	3.1817E-01	
												Total			1.1772E+01	3.1817E-01	
												SNM:	[4.0000E+01 g]				
												Source:	[7.0000E-02 kgs]				
WSM-43/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9638.8385	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100 100	e/	oxid NA	Th-228	[1.1100E-11 kgs]	1.99961E-02	3.3559E-01	9.0700E-03	AS
		250.0000	10.6250	5.0000E-01	<2.000E+01	<1.500E+02						250.0000	Th-232	[6.8000E-01 kgs]	1.65127E-02	2.7713E-01	
												Th-234	[1.6500E-12 kgs]	8.37762E-02	1.4060E+00	3.8000E-02	
												U-234	[1.8100E-01 g]	2.46919E+00	(4.1440E+01)	(1.1200E+00)	
												U-235	[3.9000E+01 g]	1.84087E-01	3.0895E+00	8.3500E-02	
												U-238	[5.0100E+02 g]	3.74788E-01	6.2900E+00	1.7000E-01	
												Subtotal			1.1398E+01	3.0806E-01	
												Total			1.1398E+01	3.0806E-01	
												SNM:	[3.9000E+01 g]				
												Source:	[6.8000E-01 kgs]				

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-31

3. PAGE 4 OF 4 PAGE(S)

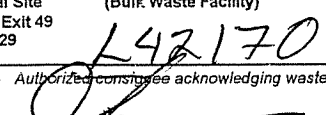
**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C											
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION														
					ALPHA	BETA-GAMMA		CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0.1%		INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT																
												RADIONUCLIDES					pCi/gm				MBq				mCi		
WSM-44/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9616.1589	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792		100	oxid		Th-228	[1.1000E-11 kgs]	1.99520E-02	3.3485E-01	9.0500E-03	AS									
		250.0000	10.6000	5.0000E-01	<2.000E+01	<1.500E+02		250.0000		100	el NA		Th-232	[6.8000E-01 kgs]	1.64686E-02	2.7639E-01	7.4700E-03										
													Th-234	[1.6500E-12 kgs]	8.35557E-02	1.4023E+00	3.7900E-02										
													U-234	[1.8100E-01 g]	2.46919E+00	(4.1440E+01)	(1.1200E+00)										
													U-235	[3.9000E+01 g]	1.83646E-01	3.0821E+00	8.3300E-02										
													U-238	[5.0100E+02 g]	3.74788E-01	6.2900E+00	1.7000E-01										
													Subtotal			1.1386E+01	3.0772E-01										
													Total			1.1386E+01	3.0772E-01										
													SNM:	[3.9000E+01 g]													
													Source:	[6.8000E-01 kgs]													
Shipment Totals		63.7128	88201.0421										SNM:	[3.5700E+02 g]		3.5723E+02	9.6548E+00										
		2250.0000	97.2250										Source:	[1.8470E+00 kgs]													

**UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST  
ISOTOPES REPORT**

For Manifest # 0674-04-31  
Envirocare of Utah, Inc.

<u>Isotope</u>	<u>Total Activity</u>	
	<u>(MBq)</u>	<u>(mCi)</u>
Th-228	3.0706E+00	8.2990E-02
Th-232	2.5352E+00	6.8520E-02
Th-234	1.2858E+01	3.4750E-01
U-234	3.8036E+02	1.0280E+01
U-235	2.8257E+01	7.6370E-01
U-238	5.7646E+01	1.5580E+00

<b>FORM 540</b>		<b>Envirocare of Utah, Inc.</b>		5. SHIPPER - NAME AND FACILITY Westinghouse Electric Company - SMP RD #4 Box 333 Westinghouse Road Blairsville, PA 15717				SHIPMENT I.D. NUMBER <b>NA</b>		7. FORM 540 AND 540A PAGE 1 OF 2 PAGE(S) FORM 541 AND 541A 4 PAGE(S) FORM 542 AND 542A None PAGE(S) ADDITIONAL INFORMATION None PAGE(S)			8. MANIFEST NUMBER (Use this number on all continuation pages) <b>0674-04-32</b>							
<b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER</b>				Utah Generator Site Access Permit No. <b>NA</b>		SHIPMENT NUMBER <b>NA</b>		<input checked="" type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR		9. CONSIGNEE - Name and Facility Address <b>Envirocare of Utah, Inc.</b> Clive Disposal Site (Bulk Waste Facility) Interstate 80, Exit 49 Clive, UT 84029			CONTACT Shipping and Receiving  TELEPHONE NUMBER (Include Area Code) <b>(435)884-0155</b>							
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) <b>412-374-4019</b>				CONTACT <b>Irwin Dobrushin</b>				TELEPHONE NUMBER (Include Area Code) <b>412-374-6094</b>		SIGNATURE - <i>Authorized consignee acknowledging waste receipt</i> 			DATE <b>11-26-01</b>							
ORGANIZATION <b>Westinghouse Electric Company</b>				6. CARRIER - Name and Address MHF Logistical Solutions 129 McCarrell Lane Zellonople, Pa 16063				EPA I.D. NUMBER <b>PAR000000281</b>		10. CERTIFICATION  This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.										
2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST <b>9</b>		EPA MANIFEST NUMBER <b>NA</b>				SHIPPING DATE <b>11/15/01</b>		AUTHORIZED SIGNATURE <i>Irwin Dobrushin</i>			TITLE <i>SG-Prod Mgr</i>		DATE <b>11/14/01</b>					
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number =====>		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		CONTACT <b>Megan Olczak</b>				TELEPHONE NUMBER (Include Area Code) <b>724-452-3900</b>		DATE <b>11/14/01</b>			SIGNATURE -- <i>Authorized carrier acknowledging waste receipt</i>							
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)				12. DOT LABEL "RADIOACTIVE"		13. TRANSPORT INDEX		14. PHYSICAL AND CHEMICAL FORM		15. INDIVIDUAL RADIONUCLIDES			16. TOTAL PACKAGE ACTIVITY MBq mCi		17. LSA/SCO CLASS		18. TOTAL WEIGHT OR VOLUME (Use appropriate units)		19. IDENTIFICATION NUMBER OF PACKAGE	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL				NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238			5.5149E+01 1.4905E+00		NA		22100. LBS; 250. FT3		WSM-46	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL				NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238			5.1371E+01 1.3884E+00		NA		20550. LBS; 250. FT3		WSM-47	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL				NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238			5.3757E+01 1.4529E+00		NA		21550. LBS; 250. FT3		WSM-48	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL				NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238			5.1878E+01 1.4021E+00		NA		20800. LBS; 250. FT3		WSM-49	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL				NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238			5.2838E+01 1.4281E+00		NA		21250. LBS; 250. FT3		WSM-50	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL				NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238			5.2774E+01 1.4263E+00		NA		21100. LBS; 250. FT3		WSM-51	
FOR CONSIGNEE USE ONLY				BILLING ONLY  <input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Shipment.				20. TERMS AND CONDITION A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material _____ is (or) <input checked="" type="checkbox"/> is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1. B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc. C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST) are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license. D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST,) or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.												



ATTACHMENT TO NRC FORM 540

Manifest Number: 0674-04-32  
Railcar Number: MHF5301

6. CARRIER - Name and Address

Transporter # 2:

CARRIER: Norfolk Southern Corporation  
ADDRESS: 3 Commercial Place  
Norfolk, VA 23510-2191  
TELEPHONE: 800-635-5768  
EPA ID #: VAD000650309

Carrier's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Transporter # 3:

CARRIER: Union Pacific Railroad Company  
ADDRESS: 1416 Dodge St.  
Omaha, NE 68179  
TELEPHONE: 800-243-5416  
EPA ID #: NED001792910

Carrier's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST**

**CONTAINER AND WASTE DESCRIPTION**

Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste

**1. MANIFEST TOTALS**

NUMBER OF PACKAGES/DISPOSAL CONTAINERS	NET WASTE VOLUME		NET WASTE WEIGHT		SPECIAL NUCLEAR MATERIAL (grams)			
	m3	kg	kg	ton	U-233	U-235	Pu	TOTAL
9	63.7128	86613.4687			U-233	U-235	Pu	TOTAL
	2250.0000	95.4750			NP	3.1100E+02 8 Packages	NP	3.1100E+02
ACTIVITY								
ALL NUCLIDES		TRITIUM	C-14	Tc-99	I-129	SOURCE		
MBq	3.0877E+02	NP	NP	NP	NP	(kgs)	3.0340E+00	
mCi	8.3451E+00	NP	NP	NP	NP	(tons)	3.3444E-03	

**2. MANIFEST NUMBER**

0674-04-32

**3. PAGE 1 OF 4 PAGE(S)**

**4. SHIPPER NAME**

Westinghouse Electric Compan

**SHIPMENT ID NUMBER**

NA

**DISPOSAL CONTAINER DESCRIPTION**

**WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER**

5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION				16. WASTE CLASSIFICATION			
					ALPHA	BETA-GAMMA		CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%		INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT									
														RADIONUCLIDES	pCi/gm	MBq	mCi			
WSM-46/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	10024.3920	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	100	el	oxid	NA	Th-228	[1.1500E-11 kgs]	2.07897E-02	3.4891E-01	9.4300E-03	AS	
		250.0000	11.0500	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	Th-232					[7.1000E-02 kgs]	1.71741E-02	2.8823E-01	7.7900E-03			
														Th-234	[1.7200E-12 kgs]	8.70831E-02	1.4615E+00	3.9500E-02		
														U-234	[1.8900E-01 g]	2.57942E+00	4.3290E+01	1.1700E+00		
														U-235	[4.1000E+01 g]	1.91362E-01	3.2116E+00	8.6800E-02		
														U-238	[5.2100E+02 g]	3.90221E-01	6.5490E+00	1.7700E-01		
														Subtotal		5.5149E+01	1.4905E+00			
														Total		5.5149E+01	1.4905E+00			
														SNM:	[4.1000E+01 g]					
														Source:	[7.1000E-02 kgs]					
WSM-47/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9321.3238	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	100	el	oxid	NA	Th-228	[1.0700E-11 kgs]	1.93347E-02	3.2449E-01	8.7700E-03	AS	
		250.0000	10.2750	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	Th-232					[6.6000E-02 kgs]	1.59616E-02	2.6788E-01	7.2400E-03			
														Th-234	[1.6000E-12 kgs]	8.09102E-02	1.3579E+00	3.6700E-02		
														U-234	[1.7500E-01 g]	2.40305E+00	4.0330E+01	1.0900E+00		
														U-235	[3.8000E+01 g]	1.77914E-01	2.9859E+00	8.0700E-02		
														U-238	[4.8400E+02 g]	3.63765E-01	6.1050E+00	1.6500E-01		
														Subtotal		5.1371E+01	1.3884E+00			
														Total		5.1371E+01	1.3884E+00			
														SNM:	[3.8000E+01 g]					
														Source:	[6.6000E-02 kgs]					

**NOTE 1: Container Description Codes.** For containers/waste requiring disposal in approved structural overpacks the numerical code must be followed by "-OP."

1. Wooden Box or Crate	9. Demineralizer
2. Metal Box	10. Gas Cylinder
3. Plastic Drum or Pail	11. Bulk, Unpackaged Waste
4. Metal Drum or Pail	12. Unpackaged Components
5. Metal Tank or Liner	13. High Integrity Container
6. Concrete Tank or Liner	19. Other. Describe in Item 6, or additional page.
7. Polyethylene Tank or Liner	
8. Fiberglass Tank or Liner	

**Note 1A: Bulk Packaging Description Codes** (Choose one code as may be applicable.)

A Gondola
B Intermodal
C End-dump
D Roll-off
E Seavan

**NOTE 2: Waste Descriptor Codes.** (Choose up to three which predominate by volume.)

20. Charcoal	29. Demolition Rubble	38. Evaporator Bottoms/Sludges/ Concentrates
21. Incinerator Ash	30. Cation Ion-exchange Media	39. Compactible Trash
22. Soil	31. Anion Ion-exchange Media	40. Noncompactible Trash
23. Gas	32. Mixed Bed Ion-exchange Media	41. Animal Carcass
24. Oil	33. Contaminated Equipment	42. Biological Material (except animal carcass)
25. Aqueous Liquid	34. Organic Liquid (except oil)	43. Activated Material
26. Filter Media	35. Glassware or Labware	59. Other. Describe in item 11, or additional page
27. Mechanical Filter	36. Sealed Source/Device	
28. EPA or State Hazardous	37. Paint or Plating	

**Note 2A: Specific Waste Descriptions** (Choose all applicable codes.)

G Dewatered
H Solid
I Combustible
J Non-combustible
K Air Filtration Filters
L Asbestos

**Note 3: Solidification and Stabilization Media Codes.** (Choose up to three which predominate by volume.) For media meeting disposal site structural stability requirements, the numerical code must be followed by "-S" and the media vendor and brand name must also be identified in item 13. Code 100=NONE REQUIRED

Solidification	
90. Cement	94. Vinyl Ester Styrene
91. Concrete (encapsulation)	99. Other. Describe in item 13, or additional page
92. Bitumen	
93. Vinyl Chloride	100. None Required

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-32

3. PAGE 2 OF 4 PAGE(S)

DISPOSAL CONTAINER DESCRIPTION			CONTAINER AND WASTE DESCRIPTION (CONTINUATION)				WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER								16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C		
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (F3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION					
					ALPHA	BETA-GAMMA	11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (F13)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT					
							RADIONUCLIDES		pCi/gm	MBq	mCi						
WSM-48/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9774.9162	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	100	100	el	oxid NA	Th-228	[1.1200E-11 kgs]	2.02827E-02	3.4040E-01	9.2000E-03	AS
																Th-232	
		250.0000	10.7750	5.0000E-01	<2.000E+01	<1.500E+02		250.0000				Th-234	[1.6700E-12 kgs]	8.48785E-02	1.4245E+00	3.8500E-02	
												U-234	[1.8400E-01 g]	2.51329E+00	4.2180E+01	1.1400E+00	
												U-235	[4.0000E+01 g]	1.86512E-01	3.1302E+00	8.4600E-02	
												U-238	[5.0800E+02 g]	3.81402E-01	6.4010E+00	1.7300E-01	
												Subtotal			5.3757E+01	1.4529E+00	
												Total			5.3757E+01	1.4529E+00	
												SNM:	[4.0000E+01 g]				
												Source:	[6.9000E-02 kgs]				
WSM-49/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9434.7219	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	100	100	el	oxid NA	Th-228	[1.0800E-11 ]	1.95772E-02	(3.2856E-01)	(8.8800E-03)	AS
																Th-232	
		250.0000	10.4000	5.0000E-01	<2.000E+01	<1.500E+02		250.0000				Th-234	[1.6200E-12 kgs]	8.20125E-02	1.3764E+00	3.7200E-02	
												U-234	[1.7700E-01 g]	2.42510E+00	4.0700E+01	1.1000E+00	
												U-235	[3.8000E+01 g]	1.80119E-01	3.0229E+00	8.1700E-02	
												U-238	[4.9000E+02 g]	3.68174E-01	6.1790E+00	1.6700E-01	
												Subtotal			5.1550E+01	1.3932E+00	
												Total			5.1550E+01	1.3932E+00	
												SNM:	[3.8000E+01 g]				
												Source:	[6.7000E-02 kgs]				
WSM-50/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9638.8385	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	100	100	el	oxid NA	Th-228	[1.1100E-11 kgs]	1.99961E-02	3.3559E-01	9.0700E-03	AS
																Th-232	
		250.0000	10.6250	5.0000E-01	<2.000E+01	<1.500E+02		250.0000				Th-234	[1.6500E-12 kgs]	8.37762E-02	1.4060E+00	3.8000E-02	
												U-234	[1.8100E-01 ]	2.46919E+00	4.1440E+01	1.1200E+00	
												U-235	[3.9000E+01 g]	1.84087E-01	3.0895E+00	8.3500E-02	
												U-238	[5.0100E+02 g]	3.74788E-01	6.2900E+00	1.7000E-01	
												Subtotal			1.1398E+01	3.0806E-01	
												Total			1.1398E+01	3.0806E-01	
												SNM:	[3.9000E+01 g]				
												Source:	[6.8000E-01 kgs]				



**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-32

3. PAGE 3 OF 4 PAGE(S)

**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION					WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C		
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME $\frac{(m^3)}{(ft^3)}$	8. WASTE AND CONTAINER WEIGHT $\frac{(kg)}{(ton)}$	9. SURFACE RADIATION LEVEL $\frac{mSv/hr}{mrem/hr}$	10. SURFACE CONTAMINATION $\frac{MBq/100\text{ cm}^2}{dpm/100\text{ cm}^2}$		11. PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION					
					ALPHA	BETA-GAMMA	11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER $\frac{(m^3)}{(FT^3)}$	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	CHEMICAL FORM / CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT					
												RADIONUCLIDES		pCi/gm	MBq	mCi	
WSM-51/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9570.7596	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	100 100	100	el	oxid NA		Th-228	[1.1000E-11 kgs]	1.98417E-02	3.3300E-01	9.0000E-03
		250.0000	10.5500	5.0000E-01	<2.000E+01	<1.500E+02		250.0000					Th-232	[6.8000E-01 kgs]	1.63804E-02	2.7491E-01	7.4300E-03
													Th-234	[1.6500E-12 kgs]	8.37762E-02	1.4060E+00	3.8000E-02
													U-234	[1.8100E-01 g]	2.46919E+00	(4.1440E+01)	(1.1200E+00)
													U-235	[3.9000E+01 g]	1.82764E-01	3.0673E+00	8.2900E-02
													U-238	[4.9700E+02 g]	3.72584E-01	6.2530E+00	1.6900E-01
													Subtotal			1.1334E+01	3.0633E-01
													Total			1.1334E+01	3.0633E-01
													SNM:	[3.9000E+01 g]			
													Source:	[6.8000E-01 kgs]			
WSM-52/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	10047.0717	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	100 100	100	el	oxid NA		Th-228	[1.1500E-11 kgs]	2.08338E-02	3.4965E-01	9.4500E-03
		250.0000	11.0750	5.0000E-01	<2.000E+01	<1.500E+02		250.0000					Th-232	[7.1000E-02 kgs]	1.71962E-02	2.8860E-01	7.8000E-03
													Th-234	[1.7200E-12 kgs]	8.73036E-02	1.4652E+00	3.9600E-02
													U-234	[1.8900E-01 g]	2.57942E+00	4.3290E+01	1.1700E+00
													U-235	[4.1000E+01 g]	1.91803E-01	(3.2190E+00)	(8.7000E-02)
													U-238	[5.2200E+02 g]	3.92425E-01	6.5860E+00	1.7800E-01
													Subtotal			5.1979E+01	1.4049E+00
													Total			5.1979E+01	1.4049E+00
													Source:	[7.1000E-02 kgs]			
WSM-53/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9638.8385	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	100 100	100	el	oxid NA		Th-228	[1.1100E-11 kgs]	1.99961E-02	3.3559E-01	9.0700E-03
		250.0000	10.6250	5.0000E-01	<2.000E+01	<1.500E+02		250.0000					Th-232	[6.8000E-01 kgs]	1.65127E-02	2.7713E-01	7.4900E-03
													Th-234	[1.6500E-12 kgs]	8.37762E-02	1.4060E+00	3.8000E-02
													U-234	[1.8100E-01 g]	2.46919E+00	(4.1440E+01)	(1.1200E+00)
													U-235	[3.9000E+01 g]	1.84087E-01	3.0895E+00	8.3500E-02
													U-238	[5.0100E+02 g]	3.74788E-01	6.2900E+00	1.7000E-01
													Subtotal			1.1398E+01	3.0806E-01
													Total			1.1398E+01	3.0806E-01
													SNM:	[3.9000E+01 g]			
													Source:	[6.8000E-01 kgs]			



# UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST ISOTOPES REPORT

For Manifest # 0674-04-32  
Envirocare of Utah, Inc.

<u>Isotope</u>	<u>Total Activity</u>	
	<u>(MBq)</u>	<u>(mCi)</u>
Th-228	3.0018E+00	8.1130E-02
Th-232	2.4894E+00	6.7280E-02
Th-234	1.2639E+01	3.4160E-01
U-234	3.7370E+02	1.0100E+01
U-235	2.7750E+01	7.5000E-01
U-238	5.6647E+01	1.5310E+00

<b>FORM 540</b> <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER</b>		<b>Envirocare of Utah, Inc.</b>		<b>5. SHIPPER - NAME AND FACILITY</b> Westinghouse Electric Company - SMP RD #4 Box 333 Westinghouse Road Blairsville, PA 15717				<b>SHIPMENT I.D. NUMBER</b> NA		<b>7. FORM 540 AND 540A</b> PAGE 1 OF 2 PAGE(S) <b>FORM 541 AND 541A</b> 4 PAGE(S) <b>FORM 542 AND 542A</b> None PAGE(S) <b>ADDITIONAL INFORMATION</b> None PAGE(S)		<b>8. MANIFEST NUMBER</b> (Use this number on all continuation pages) <b>0674-04-033</b>					
<b>1. EMERGENCY TELEPHONE NUMBER</b> (Include Area Code) 412-374-4019				Utah Generator Site Access Permit No NA		<b>SHIPMENT NUMBER</b> NA		<input checked="" type="checkbox"/> <b>GENERATOR TYPE</b> (Specify) <input type="checkbox"/>		<b>9. CONSIGNEE - Name and Facility Address</b> Envirocare of Utah, Inc. Clive Disposal Site (Bulk Waste Facility) Interstate 80, Exit 49 Clive, UT 84029		<b>CONTACT - Shipping and Receiving</b> TELEPHONE NUMBER (Include Area Code) (435)884-0155					
<b>ORGANIZATION</b> Westinghouse Electric Company				<b>CONTACT</b> Irwin Dobrushin				<b>TELEPHONE NUMBER</b> (Include Area Code) 412-374-6094		<b>SIGNATURE -</b> <i>Authorized consignee acknowledging waste receipt</i> 		<b>DATE</b> 11-26-01					
<b>2. IS THIS AN "EXCLUSIVE USE" SHIPMENT?</b> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		<b>3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST</b> 9		<b>6. CARRIER - Name and Address</b> MHF Logistical Solutions 129 McCarrell Lane Zelionople, Pa 16063				<b>EPA I.D. NUMBER</b> PAR000000281		<b>SHIPPING DATE</b> NA		<b>10. CERTIFICATION</b> This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.					
<b>4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT?</b> If "Yes," provide Manifest Number $\Rightarrow$		<b>EPA MANIFEST NUMBER</b> NA		<b>CONTACT</b> Megan Olczak				<b>TELEPHONE NUMBER</b> (Include Area Code) 724-452-3900		<b>DATE</b>		<b>AUTHORIZED SIGNATURE</b> 		<b>TITLE</b> Irwin Dobrushin Sr. Ind. Hwy		<b>DATE</b> 11/15/01	
<b>11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION</b> (Including proper shipping name, hazard class, UN ID number, and any additional information)		<b>12. DOT LABEL "RADIOACTIVE"</b>		<b>13. TRANSPORT INDEX</b>		<b>14. PHYSICAL AND CHEMICAL FORM</b>		<b>15. INDIVIDUAL RADIONUCLIDES</b>		<b>16. TOTAL PACKAGE ACTIVITY</b> MBq mCi		<b>17. LSA/SCO CLASS</b>		<b>18. TOTAL WEIGHT OR VOLUME</b> (Use appropriate units)		<b>19. IDENTIFICATION NUMBER OF PACKAGE</b>	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		4.6110E+01 1.2462E+00		NA		18500. LBS; 250. FT3		WSM-55	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		1.5467E+01 4.1803E-01		NA		21110. LBS; 250. FT3		WSM-56	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		5.3757E+01 1.4529E+00		NA		21550. LBS; 250. FT3		WSM-57	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		4.9492E+01 1.3376E+00		NA		19800. LBS; 250. FT3		WSM-58	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		5.1828E+01 1.4008E+00		NA		20750. LBS; 250. FT3		WSM-59	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		5.3266E+01 1.4396E+00		NA		21350. LBS; 250. FT3		WSM-60	
<b>FOR CONSIGNEE USE ONLY</b> <div style="text-align: center; font-size: 2em; opacity: 0.5;">BILLING ONLY</div>				<input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input checked="" type="checkbox"/> Other <input type="checkbox"/> No Violations Detected on this Shipment.				<b>20. TERMS AND CONDITION</b> A. <b>HAZARDOUS MATERIALS:</b> Generator represents & warrants that Waste Material _____ is (or) <input checked="" type="checkbox"/> is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1. B. <b>TITLE:</b> Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc. C. <b>WASTE MATERIAL:</b> Generator represents and warrants that all data set forth in this (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST) are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license. D. <b>INDEMNIFICATION:</b> Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST,) or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.									

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST  
SHIPPING PAPER (CONTINUATION)**

8. MANIFEST NUMBER  
(Use this number on all continuation pages)  
**0674-04-033**

PAGE 2 OF 2 PAGES

11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)	12. DOT LABEL "RADIOACTIVE"	13. TRANSPORT INDEX	14. PHYSICAL AND CHEMICAL FORM	15. INDIVIDUAL RADIONUCLIDES				16. TOTAL PACKAGE ACTIVITY MBq mCi		17. LSA/SCO CLASS	18. TOTAL WEIGHT OR VOLUME (Use appropriate units)	19. IDENTIFICATION NUMBER OF PACKAGE
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL	NA	NA	Solid / oxide	Th-228 U-235	Th-232 U-238	Th-234	U-234	5.2306E+01	1.4137E+00	NA	20900. LBS; 250. FT3	WSM-61
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL	NA	NA	Solid / oxide	Th-228 U-235	Th-232 U-238	Th-234	U-234	5.2381E+01	1.4157E+00	NA	21050. LBS; 250. FT3	WSM-62
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL	NA	NA	Solid / oxide	Th-228 U-235	Th-232 U-238	Th-234	U-234	5.3757E+01	1.4529E+00	NA	21550. LBS; 250. FT3	WSM-63

<b>FORM 541</b>  <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST</b>  <b>CONTAINER AND WASTE DESCRIPTION</b>  Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste	Envirocare of Utah, Inc.		<b>1. MANIFEST TOTALS</b>					<b>2. MANIFEST NUMBER</b> 0674-04-033		
	NUMBER OF PACKAGES/DISPOSAL CONTAINERS	NET WASTE VOLUME	NET WASTE WEIGHT	SPECIAL NUCLEAR MATERIAL (grams)				TOTAL		
				U-233	U-235	Pu				
	9	m3 63.7128	kg 84622.1981	NP	3.4300E+02 9 Packages	NP	3.4300E+02		<b>3. PAGE 1 OF 4 PAGE(S)</b>	
		ft3 2250.0000	ton 93.2800							<b>4. SHIPPER NAME</b> Westinghouse Electric Compan
			ACTIVITY				SOURCE		<b>SHIPMENT ID NUMBER</b> NA	
		ALL NUCLIDES	TRITIUM	C-14	Tc-99	I-129				
MBq	3.4701E+02		NP	NP	NP	NP	(kgs)	1.1990E+00		
mCi	9.3785E+00		NP	NP	NP	NP	(tons)	1.3217E-03		

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C				
5 CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6 CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7 VOLUME (m3 / ft3)	8 WASTE AND CONTAINER WEIGHT (kg / ton)	9 SURFACE RADIATION LEVEL (mSv/hr / mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2 / dpm/100 cm2)		11. WASTE DESCRIPTION (See Note 2 & Note 2A)			12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3 / FT3)		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)		14. CHEMICAL DESCRIPTION (CHEMICAL FORM / CHELATING AGENT)			15. RADIOLOGICAL DESCRIPTION (INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT)			
					ALPHA	BETA-GAMMA	WASTE DESCRIPTOR	VOLUME(S)	SOLIDIFICATION OR STABILIZATION MEDIA	CHEMICAL FORM / CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	RADIONUCLIDES								
WSM-55/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	8391.4594	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	100	e/	oxid	NA	Th-228	[1.4400E-12 kgs]	1.74166E-02	2.9230E-01	7.9000E-03	AS	
		Th-232	[5.9000E-02 kgs]	1.43742E-02	2.4124E-01	6.5200E-03														
		250.0000	9.2500	5.0000E-01	<2.000E+01	<1.500E+02		250.0000						Th-234	[1.4400E-12 kgs]	7.29735E-02	1.2247E+00	3.3100E-02		
														U-234	[1.5800E-01 g]	2.15613E+00	(3.6186E+01)	(9.7800E-01)		
														U-235	[3.4000E+01 g]	1.60277E-01	2.6899E+00	7.2700E-02		
														U-238	[4.3600E+02 g]	3.26286E-01	5.4760E+00	1.4800E-01		
														Subtotal			9.9241E+00	2.6822E-01		
														Total			9.9241E+00	2.6822E-01		
														SNM:	[3.4000E+01 g]					
														Source:	[5.9000E-02 kgs]					
WSM-56/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9575.3356	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	100	e/	oxid	NA	Th-228	[1.1000E-11 kgs]	9.45893E-01	3.3337E-01	9.0100E-03	AS	
		Th-232	[6.8000E-02 kgs]	7.78971E-01	2.7454E-01	7.4200E-03														
		250.0000	10.5550	5.0000E-01	<2.000E+01	<1.500E+02		250.0000						Th-234	[1.6400E-12 kgs]	3.95784E+00	1.3949E+00	3.7700E-02		
														U-234	[1.8000E-01 g]	1.17580E+01	(4.1440E+00)	(1.1200E-01)		
														U-235	[3.9000E+01 g]	8.70306E+00	3.0673E+00	8.2900E-02		
														U-238	[4.9800E+02 g]	1.77421E+01	6.2530E+00	1.6900E-01		
														Subtotal			1.1323E+01	3.0603E-01		
														Total			1.1323E+01	3.0603E-01		
														SNM:	[3.9000E+01 g]					
														Source:	[6.8000E-02 kgs]					

**NOTE 1: Container Description Codes. For containers/waste requiring disposal in approved structural over-packs the numerical code must be followed by "-OP."**

1. Wooden Box or Crate	9. Demineralizer
2. Metal Box	10. Gas Cylinder
3. Plastic Drum or Pail	11. Bulk, Unpackaged Waste
4. Metal Drum or Pail	12. Unpackaged Components
5. Metal Tank or Liner	13. High Integrity Container
6. Concrete Tank or Liner	19. Other Describe in Item 6,
7. Polyethylene Tank or Liner	or additional page
8. Fiberglass Tank or Liner	

**Note 1A: Bulk Packaging Description Codes (Choose one code as may be applicable.)**

A Gondola
B Intermodal
C End-dump
D Roll-off
E Seavan

**NOTE 2: Waste Descriptor Codes. (Choose up to three which predominate by volume.)**

20. Charcoal	29. Demolition Rubble	38. Evaporator Bottoms/Sludges/ Concentrates
21. Incinerator Ash	30. Cation Ion-exchange Media	39. Compactible Trash
22. Soil	31. Anion Ion-exchange Media	40. Noncompactible Trash
23. Gas	32. Mixed Bed Ion-exchange Media	41. Animal Carcass
24. Oil	33. Contaminated Equipment	42. Biological Material (except animal carcass)
25. Aqueous Liquid	34. Organic Liquid (except oil)	43. Activated Material
26. Filter Media	35. Glassware or Labware	59. Other Describe in item 11, or additional page
27. Mechanical Filter	36. Sealed Source/Device	
28. EPA or State Hazardous	37. Paint or Plating	

**Note 2A: Specific Waste Descriptions (Choose all applicable codes.)**

G Dewatered
H Solid
I Combustible
J Non-combustible
K Air Filtration Filters
L Asbestos

**Note 3: Solidification and Stabilization Media Codes. (Choose up to three which predominate by volume.) For media meeting disposal site structural stability requirements, the numerical code must be followed by "-S" and the media vendor and brand name must also be identified in item 13. Code 100=NONE REQUIRED**

<b>Solidification</b>	94. Vinyl Ester Styrene
90. Cement	99. Other Describe in item 13, or additional page
91. Concrete	92. Bitumen
92. Bitumen	100. None Required
93. Vinyl Chloride	

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-033

3. PAGE 2 OF 4 PAGE(S)

DISPOSAL CONTAINER DESCRIPTION							CONTAINER AND WASTE DESCRIPTION (CONTINUATION)							WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER							16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
5 CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6 CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7 VOLUME (m3) (ft3)	8 WASTE AND CONTAINER WEIGHT (kg) (ton)	9 SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10 SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11 WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION								
					ALPHA	BETA-GAMMA		WEIGHT % CHELATING AGENT IF > 0.1%	CHEMICAL FORM/ CHELATING AGENT		INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT										
													RADIONUCLIDES								
													pCi/gm	MBq	mCi						
WSM-57/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9774.9162	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	100	e/	oxid NA	Th-228	[1.1200E-11 kgs]	9.65840E-01	3.4040E-01	9.2000E-03	AS			
		250.0000	10.7750	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100				Th-232	[6.9000E-02 kgs]	7.96818E-01	2.8083E-01	7.5900E-03				
													Th-234	[1.6700E-12 kgs]	4.04183E+00	1.4245E+00	3.8500E-02				
													U-234	[1.8400E-01 g]	1.19680E+02	4.2180E+01	1.1400E+00				
													U-235	[4.0000E+01 g]	8.88153E+00	3.1302E+00	8.4600E-02				
													U-238	[5.0800E+02 g]	1.81620E+01	6.4010E+00	1.7300E-01				
													Subtotal			5.3757E+01	1.4529E+00				
													Total			5.3757E+01	1.4529E+00				
													SNM:	[4.0000E+01 g]							
													Source:	[6.9000E-02 kgs]							
WSM-58/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	8981.1295	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	100	e/	oxid NA	Th-228	[1.0300E-11 kgs]	8.87103E-01	3.1265E-01	8.4500E-03	AS			
		250.0000	9.9000	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100				Th-232	[6.3000E-02 kgs]	7.32778E-01	2.5826E-01	6.9800E-03				
													U-234	[1.6900E-01 g]	1.10232E+02	3.8850E+01	1.0500E+00				
													U-235	[3.6000E+01 g]	8.16764E+00	2.8786E+00	7.7800E-02				
													U-238	[4.6700E+02 g]	1.66922E+01	5.8830E+00	1.5900E-01				
													Th-234	[1.5400E-12 kgs]	3.71638E+00	1.3098E+00	3.5400E-02				
													Subtotal			4.9492E+01	1.3376E+00				
													Total			4.9492E+01	1.3376E+00				
													SNM:	[3.6000E+01 g]							
													Source:	[6.3000E-02 kgs]							
WSM-59/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9412.0423	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	100	e/	oxid NA	Th-228	[1.0800E-11 kgs]	9.30146E-01	3.2782E-01	8.8600E-03	AS			
		250.0000	10.3750	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100				Th-232	[6.6000E-02 kgs]	7.67423E-01	2.7047E-01	7.3100E-03				
													Th-234	[1.6100E-12 kgs]	3.89485E+00	1.3727E+00	3.7100E-02				
													U-234	[1.7700E-01 g]	1.15481E+02	4.0700E+01	1.1000E+00				
													U-235	[3.8000E+01 g]	8.55608E+00	3.0155E+00	8.1500E-02				
													U-238	[4.8900E+02 g]	1.74271E+01	6.1420E+00	1.6600E-01				
													Subtotal			1.1128E+01	3.0077E-01				
													Total			1.1128E+01	3.0077E-01				
													SNM:	[3.8000E+01 g]							
													Source:	[6.6000E-02 kgs]							

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-033

3. PAGE 3 OF 4 PAGE(S)

**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION				CONTAINER AND WASTE DESCRIPTION (CONTINUATION)										16. WASTE CLASSIFICATION						
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (R3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. WASTE DESCRIPTION (See Note 2 & Note 2A)			12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)		14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION				AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
					ALPHA	BETA-GAMMA	WASTE DESCRIPTOR	WASTE VOLUME(S)	OR STABILIZATION MEDIA	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT								
					RADIONUCLIDES				pCi/gm	MBq	mCi									
WSM-60/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9684.1977	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	100	100	el	oxid	NA	Th-228	[1.1100E-11 kgs]	9.56391E-01	3.3707E-01	9.1100E-03	AS		
		Th-232	[6.8000E-02 kgs]	7.89469E-01	2.7824E-01	7.5200E-03														
		250.0000	10.6750	5.0000E-01	<2.000E+01	<1.500E+02							Th-234	[1.6600E-12 kgs]	3.99984E+00	1.4097E+00	3.8100E-02			
													U-234	[1.8200E-01 g]	1.18630E+02	4.1810E+01	1.1300E+00			
													U-235	[3.9000E+01 g]	8.80804E+00	3.1043E+00	8.3900E-02			
													U-238	[5.0300E+02 g]	1.79520E+01	6.3270E+00	1.7100E-01			
													Subtotal			5.3266E+01	1.4396E+00			
													Total			5.3266E+01	1.4396E+00			
													SNM:	[3.9000E+01 g]						
													Source:	[6.8000E-02 kgs]						
WSM-61/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9480.0812	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	100	100	el	oxid	NA	Th-228	[1.0900E-11 ]	9.36445E-01	(3.3004E-01)	(8.9200E-03)	AS		
		Th-232	[6.7000E-01 kgs]	7.72672E-01	2.7232E-01	7.3600E-03														
		250.0000	10.4500	5.0000E-01	<2.000E+01	<1.500E+02							Th-234	[1.6200E-12 kgs]	3.91585E+00	1.3801E+00	3.7300E-02			
													U-234	[1.7800E-01 g]	1.16531E+02	4.1070E+01	1.1100E+00			
													U-235	[3.8000E+01 g]	8.61907E+00	3.0377E+00	8.2100E-02			
													U-238	[4.9300E+02 g]	1.76371E+01	6.2160E+00	1.6800E-01			
													Subtotal			5.1976E+01	1.4048E+00			
													Total			5.1976E+01	1.4048E+00			
													SNM:	[3.8000E+01 g]						
													Source:	[6.7000E-01 kgs]						
WSM-62/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9548.1200	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	100	100	el	oxid	NA	Th-228	[1.1000E-11 kgs]	9.42744E-02	3.3226E-01	8.9800E-03	AS		
		Th-232	[6.7000E-02 kgs]	7.78971E-02	2.7454E-01	7.4200E-03														
		250.0000	10.5250	5.0000E-01	<2.000E+01	<1.500E+02							Th-234	[1.6400E-12 kgs]	3.94734E-01	1.3912E+00	3.7600E-02			
													U-234	[1.8000E-01 g]	1.16531E+01	4.1070E+01	1.1100E+00			
													U-235	[3.9000E+01 g]	8.68206E-01	3.0599E+00	8.2700E-02			
													U-238	[4.9600E+02 g]	1.77421E+00	6.2530E+00	1.6900E-01			
													Subtotal			5.2381E+01	1.4157E+00			
													Total			5.2381E+01	1.4157E+00			
													SNM:	[3.9000E+01 g]						
													Source:	[6.7000E-02 kgs]						



**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-033

3. PAGE 4 OF 4 PAGE(S)

**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION				CONTAINER AND WASTE DESCRIPTION (CONTINUATION)				WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER				16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C					
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION			15. RADIOLOGICAL DESCRIPTION				
					ALPHA	BETA-GAMMA	11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0.1%		INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT				
												RADIONUCLIDES	pCi/gm	MBq	mCi		
WSM-63/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9774.9162	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	oxid NA		Th-228	[1.1200E-11 kgs]	9.65840E-01	3.4040E-01	9.2000E-03	AS
		250.0000	10.7750	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100			Th-232	[6.9000E-02 kgs]	7.96818E-01	2.8083E-01	7.5900E-03	
												Th-234	[1.6700E-12 kgs]	4.04183E+00	1.4245E+00	3.8500E-02	
												U-234	[1.8400E-01 g]	1.19680E+02	4.2180E+01	1.1400E+00	
												U-235	[4.0000E+01 g]	8.88153E+00	3.1302E+00	8.4600E-02	
												U-238	[5.0800E+02 g]	1.81620E+01	6.4010E+00	1.7300E-01	
												Subtotal			5.3757E+01	1.4529E+00	
												Total			5.3757E+01	1.4529E+00	
												SNM:	[4.0000E+01 g]				
												Source:	[6.9000E-02 kgs]				
Shipment Totals		63.7128	84622.1981									SNM:	[3.4300E+02 g]		3.4701E+02	9.3785E+00	
		2250.0000	93.2800									Source:	[1.1990E+00 kgs]				

**UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST  
ISOTOPES REPORT**

For Manifest # 0674-04-033  
Envirocare of Utah, Inc.

<u>Isotope</u>	<u>Total Activity</u>	
	<u>(MBq)</u>	<u>(mCi)</u>
Th-228	2.9463E+00	7.9630E-02
Th-232	2.4313E+00	6.5710E-02
Th-234	1.2332E+01	3.3330E-01
U-234	3.2819E+02	8.8700E+00
U-235	2.7114E+01	7.3280E-01
U-238	5.5352E+01	1.4960E+00

<b>FORM 540</b>		<b>Envirocare of Utah, Inc.</b>		5 SHIPPER -- NAME AND FACILITY Westinghouse Electric Company - SMP RD #4 Box 333 Westinghouse Road Blairsville, PA 15717				SHIPMENT I.D. NUMBER <b>NA</b>		7 FORM 540 AND 540A PAGE 1 OF 2 PAGE(S) FORM 541 AND 541A 4 PAGE(S) FORM 542 AND 542A None PAGE(S) ADDITIONAL INFORMATION None PAGE(S)			8 MANIFEST NUMBER (Use this number on all continuation pages) <b>0674-04-34</b>						
<b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER</b>				Utah Generator Site Access Permit No NA		SHIPMENT NUMBER NA		<input checked="" type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR		9 CONSIGNEE - Name and Facility Address Envirocare of Utah, Inc. Clive Disposal Site (Bulk Waste Facility) Interstate 80, Exit 49 Clive, UT 84029			CONTACT Shipping and Receiving						
1 EMERGENCY TELEPHONE NUMBER (Include Area Code) 412-374-4019				CONTACT Irwin Dobrushin		TELEPHONE NUMBER (Include Area Code) 412-374-6094		SIGNATURE - <i>Authorized consignee acknowledging waste receipt</i>  L42279			DATE 11/30/01								
ORGANIZATION Westinghouse Electric Company				6 CARRIER -- Name and Address MHF Incorporated 300 Granview Blvd. Zellionople, Pa 16063		EPA I.D. NUMBER PAR000000281		SHIPPING DATE NA			10 CERTIFICATION This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.								
2 IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		3 TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST =====> 9		CONTACT Megan Olczak		TELEPHONE NUMBER (Include Area Code) 724-452-3900		DATE		AUTHORIZED SIGNATURE <i>Irwin Dobrushin</i>		TITLE <i>Sr. Ind. Hygienist</i>		DATE 11/16/01					
4 DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number =====>		EPA MANIFEST NUMBER NA		SIGNATURE -- <i>Authorized carrier acknowledging waste receipt</i>		DATE		DATE		DATE		DATE		DATE					
11 U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)				12 DOT LABEL "RADIOACTIVE"		13 TRANSPORT INDEX		14 PHYSICAL AND CHEMICAL FORM		15 INDIVIDUAL RADIONUCLIDES		16 TOTAL PACKAGE ACTIVITY MBq mCi		17 LSA/SCO CLASS		18 TOTAL WEIGHT OR VOLUME (Use appropriate units)		19 IDENTIFICATION NUMBER OF PACKAGE	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL				NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		5.1446E+01 1.3904E+00		NA		20700. LBS; 250. FT3		WSM-64	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL				NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		5.2774E+01 1.4263E+00		NA		21100. LBS; 250. FT3		WSM-65	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL				NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		5.2826E+01 1.4277E+00		NA		21200. LBS; 250. FT3		WSM-66	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL				NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		5.2826E+01 1.4277E+00		NA		21200. LBS; 250. FT3		WSM-67	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL				NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		5.2774E+01 1.4263E+00		NA		21100. LBS; 250. FT3		WSM-68	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL				NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		4.9991E+01 1.3511E+00		NA		20050. LBS; 250. FT3		WSM-69	
FOR CONSIGNEE USE ONLY				<input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Shipment.		20 TERMS AND CONDITION A HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material _____ is (or) <input checked="" type="checkbox"/> is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1 B TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc. C WASTE MATERIAL: Generator represents and warrants that all data set forth in this (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST) are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license D INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST,) or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters													



<b>FORM 541</b>  <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST</b>  CONTAINER AND WASTE DESCRIPTION  Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste	<b>Envirocare of Utah, Inc.</b>	<b>1. MANIFEST TOTALS</b> SPECIAL NUCLEAR MATERIAL (grams)				<b>2. MANIFEST NUMBER</b> <b>0674-04-34</b>		
	NUMBER OF PACKAGES/ DISPOSAL CONTAINERS <b>9</b>	NET WASTE VOLUME m3 <b>63.7128</b> ft3 <b>2250.0000</b>	NET WASTE WEIGHT kg <b>84803.6351</b> ton <b>93.4800</b>	U-233 <b>NP</b>	U-235 <b>3.4500E+02</b> <b>9 Packages</b>	Pu <b>NP</b>	TOTAL <b>3.4500E+02</b>	<b>3. PAGE 1 OF 4 PAGE(S)</b>
	<b>ACTIVITY</b>						<b>SOURCE</b>	
	ALL NUCLIDES		TRITIUM	C-14	Tc-99	I-129		
	MBq	<b>2.9383E+02</b>	<b>NP</b>	<b>NP</b>	<b>NP</b>	<b>NP</b>	(kgs) <b>2.9810E+00</b>	<b>4. SHIPPER NAME</b> <b>Westinghouse Electric Company</b>
	mCi	<b>7.9415E+00</b>	<b>NP</b>	<b>NP</b>	<b>NP</b>	<b>NP</b>	(tons) <b>3.2860E-03</b>	<b>SHIPMENT ID NUMBER</b> <b>NA</b>

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
5 CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6 CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7 VOLUME (m3) (ft3)	8 WASTE AND CONTAINER WEIGHT (kg) (ton)	9 SURFACE RADIATION LEVEL mSv/hr mrem/hr	10 SURFACE CONTAMINATION MBq/100 cm2 dpm/100 cm2		11 WASTE DESCRIPTOR (See Note 2 & Note 2A)	12 APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13 SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION				
					ALPHA	BETA-GAMMA				CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT				
											RADIONUCLIDES	pCi/gm	MBq	mCi		
WSM-54/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9389.3627	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100 100	e/	oxid NA	Th-228 [1.0800E-11 kgs]	1.94669E-02	3.2671E-01	8.8300E-03	AS
		250.0000	10.3500	5.0000E-01	<2.000E+01	<1.500E+02	250.0000	7.0792	100 100	e/	oxid NA	Th-232 [6.6000E-02 kgs]	1.60718E-02	(2.6973E-01)	(7.2900E-03)	
												Th-234 [1.6100E-12 kgs]	8.15715E-02	1.3690E+00	3.7000E-02	
												U-234 [1.7700E-01 g]	2.40305E+00	4.0330E+01	1.0900E+00	
												U-235 [3.8000E+01 g]	1.79237E-01	3.0081E+00	8.1300E-02	
												U-238 [4.8800E+07 g]	3.65970E-01	(6.1420E+00)	(1.6600E-01)	
												Subtotal	4.5034E+01	1.2171E+00		
												Total	4.5034E+01	1.2171E+00		
												SNM: [3.8000E+01 g]				
												Source: [1.2410E-11 kgs]				
WSM-65/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9570.7996	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100 100	e/	oxid NA	Th-228 [1.1000E-11 kgs]	1.98417E-02	3.3300E-01	9.0000E-03	AS
		250.0000	10.5500	5.0000E-01	<2.000E+01	<1.500E+02	250.0000	7.0792	100 100	e/	oxid NA	Th-232 [6.8000E-01 kgs]	1.63804E-02	2.7491E-01	7.4300E-03	
												Th-234 [1.6500E-12 kgs]	8.37762E-02	1.4060E+00	3.8000E-02	
												U-234 [1.8100E-01 g]	2.46919E+00	(4.1440E+01)	(1.1200E+00)	
												U-235 [3.9000E+01 g]	1.82764E-01	3.0673E+00	8.2900E-02	
												U-238 [4.9700E+02 g]	3.72584E-01	6.2530E+00	1.6900E-01	
												Subtotal	1.1334E+01	3.0633E-01		
												Total	1.1334E+01	3.0633E-01		
												SNM: [3.9000E+01 g]				
												Source: [6.8000E-01 kgs]				

**NOTE 1: Container Description Codes.** For containers/waste requiring disposal in approved structural over-packs the numerical code must be followed by "-OP"

1 Wooden Box or Crate	9 Demineralizer
2 Metal Box	10 Gas Cylinder
3 Plastic Drum or Pail	11 Bulk, Unpackaged Waste
4 Metal Drum or Pail	12 Unpackaged Components
5 Metal Tank or Liner	13 High Integrity Container
6 Concrete Tank or Liner	19 Other Describe in Item 6.
7 Polyethylene Tank or Liner	or additional page
8 Fiberglass Tank or Liner	

**Note 1A: Bulk Packaging Description Codes** (Choose one code as may be applicable.)

A Gondola
B Intermodal
C End-dump
D Roll-off
E Seavan

**NOTE 2: Waste Descriptor Codes.** (Choose up to three which predominate by volume.)

20 Charcoal	29 Demolition Rubble	38 Evaporator Bottoms/Sludges/ Concentrates
21 Incinerator Ash	30 Cation Ion-exchange Media	39 Compactible Trash
22 Soil	31 Anion Ion-exchange Media	40 Noncompactible Trash
23 Gas	32 Mixed Bed Ion-exchange Media	41 Animal Carcass
24 Oil	33 Contaminated Equipment	42 Biological Material (except animal carcass)
25 Aqueous Liquid	34 Organic Liquid (except oil)	43 Activated Material
26 Filter Media	35 Glassware or Labware	59 Other Describe in item 11, or additional page
27 Mechanical Filter	36 Sealed Source/Device	
28 EPA or State Hazardous	37 Paint or Plating	

**Note 2A: Specific Waste Descriptions** (Choose all applicable codes)

G Dewatered
H Solid
I Combustible
J Non-combustible
K Air Filtration Filters
L Asbestos

**Note 3: Solidification and Stabilization Media Codes.** (Choose up to three which predominate by volume.) For media meeting disposal site structural stability requirements, the numerical code must be followed by "-S" and the media vendor and brand name must also be identified in item 13. Code 100=NONE REQUIRED

<b>Solidification</b>	94 Vinyl Ester Styrene
90 Cement	99 Other Describe in item 13 or additional page
91 Concrete	
92 Bitumen	
93 Vinyl Chloride	100 None Required

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc

2. MANIFEST NUMBER  
**0674-04-34**

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**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16 WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C			
5 CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6 CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7 VOLUME (m3) (ft3)	8 WASTE AND CONTAINER WEIGHT (kg) (ton)	9 SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10 SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11 PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION							
					ALPHA	BETA-GAMMA	11 WASTE DESCRIPTOR (See Note 2 & Note 2A)	12 APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13 SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0 1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT							
												RADIONUCLIDES		pCi/gm	MBq		mCi		
WSM-66/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9616.1589	5.0000E-03	<3 3400E-07	<2.5050E-06	22-H	7.0792	100	100	e/	oxid	NA	Th-228	[1.1000E-11 kgs]	1.99520E-02	3.3485E-01	9.0500E-03	AS
		Th-232	[6.8000E-01 kgs]	1.64686E-02	2.7639E-01	7.4700E-03													
		250.0000	10.6000	5.0000E-01	<2.000E+01	<1.500E+02		250.0000						Th-234	[1.6500E-12 kgs]	8.35557E-02	1.4023E+00	3.7900E-02	
														U-234	[1.8100E-01]	2.46919E+00	(4.1440E+01)	(1.1200E+00)	
														U-235	[3.9000E+01 g]	1.83646E-01	3.0821E+00	8.3300E-02	
														U-238	[5.0100E+02 g]	3.74788E-01	6.2900E+00	1.7000E-01	
														Subtotal			1.1386E+01	3.0772E-01	
														===== Total			1.1386E+01	3.0772E-01	
														SNM: [3.9000E+01 g]					
														Source: [6.8000E-01 kgs]					
WSM-67/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9616.1589	5.0000E-03	<3 3400E-07	<2.5050E-06	22-H	7.0792	100	100	e/	oxid	NA	Th-228	[1.1000E-11 kgs]	1.99520E-02	3.3485E-01	9.0500E-03	AS
		Th-232	[6.8000E-01 kgs]	1.64686E-02	2.7639E-01	7.4700E-03													
		250.0000	10.6000	5.0000E-01	<2.000E+01	<1.500E+02		250.0000						Th-234	[1.6500E-12 kgs]	8.35557E-02	1.4023E+00	3.7900E-02	
														U-234	[1.8100E-01]	2.46919E+00	(4.1440E+01)	(1.1200E+00)	
														U-235	[3.9000E+01 g]	1.83646E-01	3.0821E+00	8.3300E-02	
														U-238	[5.0100E+02 g]	3.74788E-01	6.2900E+00	1.7000E-01	
														Subtotal			1.1386E+01	3.0772E-01	
														===== Total			1.1386E+01	3.0772E-01	
														SNM: [3.9000E+01 g]					
														Source: [6.8000E-01 kgs]					
WSM-68/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9570.7996	5.0000E-03	<3 3400E-07	<2.5050E-06	22-H	7.0792	100	100	e/	oxid	NA	Th-228	[1.1000E-11 kgs]	1.98417E-02	3.3300E-01	9.0000E-03	AS
		Th-232	[6.8000E-01 kgs]	1.63804E-02	2.7491E-01	7.4300E-03													
		250.0000	10.5500	5.0000E-01	<2.000E+01	<1.500E+02		250.0000						Th-234	[1.6500E-12 kgs]	8.37762E-02	1.4060E+00	3.8000E-02	
														U-234	[1.8100E-01]	2.46919E+00	(4.1440E+01)	(1.1200E+00)	
														U-235	[3.9000E+01 g]	1.82764E-01	3.0673E+00	8.2900E-02	
														U-238	[4.9700E+02 g]	3.72584E-01	6.2530E+00	1.6900E-01	
														Subtotal			1.1334E+01	3.0633E-01	
														===== Total			1.1334E+01	3.0633E-01	
														SNM: [3.9000E+01 g]					
														Source: [6.8000E-01 kgs]					

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc

2. MANIFEST NUMBER  
**0674-04-34**

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**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C			
5 CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6 CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7 VOLUME (m3) (ft3)	8 WASTE AND CONTAINER WEIGHT (kg) (ton)	9 SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10 SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11 WASTE DESCRIPTOR (See Note 2 & Note 2A)	12 PHYSICAL DESCRIPTION		13 SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)		14 CHEMICAL DESCRIPTION		15 RADIOLOGICAL DESCRIPTION					
					ALPHA	BETA-GAMMA		12 APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0 1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT							
														RADIONUCLIDES					
														pCi/gm	MBq	mCi			
WSM-69/37-000497-15(A)	19-A SUPER SACK - 10YD3	7.0792	9094.5276	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	100	100	e/	oxid NA			Th-232	[6.4000E-02 kgs]	1.55647E-02	2.6122E-01	7.0600E-03	AS
		250.0000	10.0250	5.0000E-01	<2.000E+01	<1.500E+02		7.0792	100					100	Th-234	[1.5600E-12 kgs]	7.89260E-02	1.3246E+00	
								250.0000						U-234	[1.7100E-01 g]	2.33691E+00	3.9220E+01	1.0600E+00	
														U-235	[3.7000E+01 g]	1.73505E-01	2.9119E+00	7.8700E-02	
														U-238	[4.7300E+02 g]	3.54946E-01	5.9570E+00	1.6100E-01	
														Th-228	[1.0400E-11 kgs]	1.88717E-02	3.1672E-01	8.5600E-03	
														Subtotal		4.9991E+01	1.3511E+00		
														Total		4.9991E+01	1.3511E+00		
														SNM:	[3.7000E+01 g]				
														Source:	[6.4000E-02 kgs]				
WSM-70/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9548.1200	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	100	100	e/	oxid NA			Th-228	[1.1000E-11 kgs]	1.97976E-02	3.3226E-01	8.9800E-03	AS
		250.0000	10.5250	5.0000E-01	<2.000E+01	<1.500E+02		7.0792	100					100	Th-232	[6.7000E-02 kgs]	1.63584E-02	2.7454E-01	
								250.0000						Th-234	[1.6400E-12 kgs]	8.28943E-02	1.3912E+00	3.7600E-02	
														U-234	[1.8000E-01 g]	2.44715E+00	4.1070E+01	1.1100E+00	
														U-235	[3.9000E+01 g]	1.82323E-01	3.0599E+00	8.2700E-02	
														U-238	[4.9600E+02 g]	3.72584E-01	6.2530E+00	1.6900E-01	
														Subtotal		5.2381E+01	1.4157E+00		
														Total		5.2381E+01	1.4157E+00		
														SNM:	[3.9000E+01 g]				
														Source:	[6.7000E-02 kgs]				
WSM-71/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9026.4888	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	100	100	e/	oxid NA			Th-228	[1.0400E-11 kgs]	8.91302E-01	3.1413E-01	8.4900E-03	AS
		250.0000	9.9500	5.0000E-01	<2.000E+01	<1.500E+02		7.0792	100					100	Th-232	[6.4000E-02 kgs]	7.35928E-01	2.5937E-01	
								250.0000						Th-234	[1.5500E-12 kgs]	3.73738E+00	1.3172E+00	3.5600E-02	
														U-234	[1.7000E-01 g]	1.10232E+02	3.8850E+01	1.0500E+00	
														U-235	[3.7000E+01 g]	8.20964E+00	2.8934E+00	7.8200E-02	
														U-238	[4.6900E+02 g]	1.67972E+01	5.9200E+00	1.6000E-01	
														Subtotal		4.9554E+01	1.3393E+00		
														Total		4.9554E+01	1.3393E+00		
														SNM:	[3.7000E+01 g]				
														Source:	[6.4000E-02 kgs]				

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
**0674-04-34**

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**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
5 CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6 CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7 VOLUME (m3) (ft3)	8 WASTE AND CONTAINER WEIGHT (kg) (ton)	9 SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10 SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11 PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION				
					ALPHA	BETA-GAMMA	11 WASTE DESCRIPTOR (See Note 2 & Note 2A)	12 APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13 SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT				
												RADIONUCLIDES		pCi/gm	MBq	
WSM-72/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9371.2190	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100	100	e/ NA	oxid	Th-228 [1.0800E-11 kgs]	1.94449E-02	3.2634E-01	8.8200E-03
		250.0000	10.3300	5.0000E-01	<2.000E+01	<1.500E+02		250.0000					Th-232 [6.6000E-02 kgs]	1.60498E-02	2.6936E-01	7.2800E-03
													Th-234 [1.6000E-12 kgs]	8.13511E-02	1.3653E+00	3.6900E-02
													U-234 [1.7500E-01 g]	2.40305E+00	4.0330E+01	1.0900E+00
													U-235 [3.8000E+01 g]	1.78796E-01	3.0007E+00	8.1100E-02
													U-238 [4.8700E+02 g]	3.65970E-01	6.1420E+00	1.6600E-01
													Subtotal		5.1434E+01	1.3901E+00
													===== Total		5.1434E+01	1.3901E+00
													SNM: [3.8000E+01 g]			
													Source: [6.6000E-02 kgs]			
Shipment Totals		63.7128	84803.6351										SNM: [3.4500E+02 g]		2.9383E+02	7.9415E+00
		2250.0000	93.4800										Source: [2.9810E+00 kgs]			



# UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST ISOTOPES REPORT

For Manifest # 0674-04-34  
Envirocare of Utah, Inc.

<u>Isotope</u>	<u>Total Activity</u>	
	<u>(MBq)</u>	<u>(mCi)</u>
Th-228	2.9519E+00	7.9780E-02
Th-232	2.4368E+00	6.5860E-02
Th-234	1.2384E+01	3.3470E-01
U-234	3.6556E+02	9.8800E+00
U-235	2.7173E+01	7.3440E-01
U-238	5.5500E+01	1.5000E+00

**SNM Exemption Certification**  
(EC-0230-SNM)

7/12/99

Revision 1

The SNM Exemption Certification form must be completed and signed by each generator certifying to the following conditions. Please attach this form and all required information to the Radioactive Waste Profile Record (EC-0230). A completed and signed copy of this form must also accompany each waste manifest.

Generator No. / Waste Stream No. ~~0674-04~~ 0674-04 Manifest No. 0674-04-34

1. Please check one of the following that applies to the waste stream:

√	Uranium Enrichment Percent	Percent MgO by Weight	Percent Beryllium by Weight	U-235 Concentration (pCi/g)	Measurement Uncertainty* (pCi/g)
<input checked="" type="checkbox"/>	< 10 %	≤ 20 %	≤ 1 %	≤ 1900	≤ 285
<input type="checkbox"/>	≥ 10 %	≤ 20 %	≤ 1 %	≤ 1190	≤ 179
<input type="checkbox"/>	Unlimited	Unlimited	Unlimited	≤ 160	≤ 24
<input type="checkbox"/>	Unlimited	Sum of both ≤ 49 % of waste by weight		≤ 680	≤ 102
<input type="checkbox"/>	Not Applicable - Enriched U-235 is not present in the waste.				

\* A concentration value is used for the maximum measurement uncertainty limit rather than a percentage value to allow greater flexibility for generators with waste having very low SNM concentrations.

2. Please certify to the following requirements by checking each box:

- a. Concentrations of SNM in individual waste containers do not exceed the applicable values listed in the above table and SNM isotope concentrations listed in Table 1.
- b. The SNM is homogeneously distributed throughout the waste or the SNM concentrations in any contiguous mass of 145 kilograms (320 lbs) do not exceed on average the specified limits. (Based on process knowledge or testing).
- c. Except as allowed by Condition 1, the waste does not contain "pure forms" of chemicals containing carbon, fluorine, magnesium, or bismuth in bulk quantities (e.g., a pallet of drums, a B-25 box). By "pure forms," it is meant that mixtures of the above elements such as magnesium oxide, magnesium carbonate, magnesium fluoride, bismuth oxide, etc. do not contain other elements. (Based on process knowledge or testing).
- d. Except as allowed by Condition 1, the waste does not contain total quantities of beryllium, hydrogenous material enriched in deuterium, or graphite above one percent of the total weight of the waste. (Based on process knowledge, physical observations, or testing).
- e. Waste packages do not contain highly soluble forms of uranium greater than 350 grams of uranium-235 or 200 grams of uranium-233. If the waste contains mixtures of U-233 and U-235, the waste meets the sum of the fractions rule. Highly soluble forms of uranium include, but are not limited to: uranium sulfate, uranyl acetate, uranyl chloride, uranyl formate, uranyl fluoride, uranyl nitrate, uranyl potassium carbonate, and uranyl sulfate. (Based on process knowledge or testing).

Table 1. Maximum concentrations of SNM in individual waste containers (refer to above table for U-235 limits).

Radionuclide	Maximum Concentration (pCi/g)	Measurement Uncertainty (pCi/g)	Radionuclide	Maximum Concentration (pCi/g)	Measurement Uncertainty (pCi/g)
U-233	75,000	11,250	Pu-241	350,000	50,000
Pu-236	500	75	Pu-242	10,000	1,500
Pu-238	10,000	1,500	Pu-243	500	75
Pu-239	10,000	1,500	Pu-244	500	75
Pu-240	10,000	1,500			

**SNM Exemption Certification**  
(EC-0230-SNM)

7/12/99

Revision 1

3. Please indicate that the following information is attached to the Radioactive Waste Profile Record by checking each box. (Note: Only the two-page SNM Exemption Certification form needs to be included with each manifest).

- a. Provide a description of how the waste was generated, list the physical forms in the waste, and identify the uranium chemical composition.
- b. Provide a general description of how the waste was characterized (including the volumetric extent of the waste, and the number, location, type, and results of any analytical testing), the range of SNM concentrations, and the analytical results with error values used to develop the concentration ranges.
- c. Describe the process by which the waste was generated showing that the spatial distribution of SNM must be uniform, or other information supporting spatial distribution.
- d. Describe the methods to be used to determine the concentrations on the manifests. These methods could include direct measurement and the use of scaling factors. Describe the uncertainty associated with sampling and testing used to obtain the manifest concentrations.

4. **Generator's certification of compliance with the SNM exemption:** I certify that the information provided on this form is complete, true, and correct and is based on process knowledge, physical observations, or approved laboratory testing. I also certify that sampling and radiological testing of waste containing SNM was performed in accordance with Envirocare's Radioactive Material License and that any supporting documentation and analytical results have been submitted to Envirocare of Utah, Inc.

Erwin Dobrushin      Erwin Dobrushin Sr. Prod Mgr      9/30/01  
 Authorized Signature      Printed Name      Title      Date

<b>FORM 540</b> <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER</b>		<b>Envirocare of Utah, Inc.</b>		5 SHIPPER -- NAME AND FACILITY Westinghouse Electric Company - SMP RD #4 Box 333 Westinghouse Road Blairsville, PA 15717				SHIPMENT I.D. NUMBER <b>NA</b>		7 FORM 540 AND 540A PAGE 1 OF 1 PAGE(S) FORM 541 AND 541A 2 PAGE(S) FORM 542 AND 542A None PAGE(S) ADDITIONAL INFORMATION None PAGE(S)			8 MANIFEST NUMBER (Use this number on all continuation pages) <b>0674-04-35</b>				
1 EMERGENCY TELEPHONE NUMBER (Include Area Code) <b>412-374-4019</b>				Utah Generator Site Access Permit No <b>NA</b>		SHIPMENT NUMBER <b>NA</b>		<input checked="" type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR <input checked="" type="checkbox"/> GENERATOR TYPE (Specify) <input type="checkbox"/>		9 CONSIGNEE - Name and Facility Address Envirocare of Utah, Inc. Clive Disposal Site (Bulk Waste Facility) Interstate 80, Exit 49 Clive, UT 84029			CONTACT Shipping and Receiving TELEPHONE NUMBER (Include Area Code) <b>(435)884-0155</b>				
ORGANIZATION Westinghouse Electric Company				CONTACT Irwin Dobrushin				TELEPHONE NUMBER (Include Area Code) <b>412-374-6094</b>		SIGNATURE - <i>Irwin Dobrushin</i> AL 42280 AUTHORIZED SIGNATURE DATE TITLE DATE <i>Irwin Dobrushin</i> <i>11/30/01</i> <i>Senior End User</i> <i>11/16/01</i>			DATE <b>11/30/01</b>				
2 IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		3 TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST =====> <b>4</b>		6 CARRIER -- Name and Address MHF Incorporated 300 Granview Blvd. Zelienople, Pa 16063				EPA I.D. NUMBER <b>PAR000000281</b>		10 CERTIFICATION This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.			DATE <b>11/30/01</b>				
4 DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number =====>		YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		EPA MANIFEST NUMBER <b>NA</b>				CONTACT Megan Olczak		TELEPHONE NUMBER (Include Area Code) <b>724-452-3900</b>		AUTHORIZED SIGNATURE <i>Irwin Dobrushin</i>		DATE <b>11/16/01</b>			
11 U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)		12 DOT LABEL "RADIOACTIVE"		13 TRANSPORT INDEX		14 PHYSICAL AND CHEMICAL FORM		15 INDIVIDUAL RADIONUCLIDES		16 TOTAL PACKAGE ACTIVITY MBq mCi		17 LSA/SCO CLASS		18 TOTAL WEIGHT OR VOLUME (Use appropriate units)		19 IDENTIFICATION NUMBER OF PACKAGE	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		4.8566E+01 1.3126E+00		NA		19500. LBS; 250. FT3		WSM-73	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		4.9554E+01 1.3393E+00		NA		19900. LBS; 250. FT3		WSM-74	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		5.1436E+01 1.3902E+00		NA		20400. LBS; 250. FT3		WSM-75	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910 SOIL		NA		NA		Solid / oxide		Th-228 Th-232 Th-234 U-234 U-235 U-238		5.2826E+01 1.4277E+00		NA		21200. LBS; 250. FT3		WSM-76	
FOR CONSIGNEE USE ONLY				20 TERMS AND CONDITION A HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material _____ is (or) <input checked="" type="checkbox"/> is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1 B TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc. C WASTE MATERIAL: Generator represents and warrants that all data set forth in this (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST) are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license. D INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST), or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.													

<b>FORM 541</b>  <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST</b>  <b>CONTAINER AND WASTE DESCRIPTION</b>  Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste	Envirocare of Utah, Inc.		1. MANIFEST TOTALS				2. MANIFEST NUMBER <b>0674-04-35</b>			
	NUMBER OF PACKAGES/ DISPOSAL CONTAINERS	NET WASTE VOLUME		NET WASTE WEIGHT		SPECIAL NUCLEAR MATERIAL (grams)				
		4	m3 28.3168	kg 36740.9845	U-233 NP	U-235 1.5000E+02 4 Packages	Pu NP	TOTAL 1.5000E+02		
		ft3 1000.0000	ton 40.5000	ACTIVITY				SOURCE		
		ALL NUCLIDES		TRITIUM		C-14	Tc-99	I-129		
	MBq	1.6094E+02		NP		NP	NP	NP	(kgs)	8.7200E-01
mCi	4.3498E+00		NP		NP	NP	NP	(tons)	9.6121E-04	
3. PAGE 1 OF 2 PAGE(S)										
4. SHIPPER NAME <b>Westinghouse Electric Company</b>										
SHIPMENT ID NUMBER <b>NA</b>										

DISPOSAL CONTAINER DESCRIPTION							WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16 WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C	
5 CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6 CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7 VOLUME (m3/ft3)	8 WASTE AND CONTAINER WEIGHT (kg/ton)	9 SURFACE RADIATION LEVEL (mSv/hr/mrem/hr)	10 SURFACE CONTAMINATION (MBq/100 cm2/dpm/100 cm2)		11 WASTE DESCRIPTOR (See Note 2 & Note 2A)	12 APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3/FT3)		13 SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		WEIGHT % CHELATING AGENT IF>0 1%	15. RADIOLOGICAL DESCRIPTION				
					ALPHA	BETA-GAMMA		CHEMICAL FORM/ CHELATING AGENT			INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT							
RADIONUCLIDES																		
WSM-73/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	8845.0518	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100		oxid		Th-228	[1.0100E-11 kgs]	1.83426E-02	3.0784E-01	8.3200E-03	AS
		250.0000	9.7500	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100		el	NA	Th-232	[6.2000E-02 kgs]	1.51459E-02	2.5419E-01	6.8700E-03	
													Th-234	[1.5100E-12 kgs]	7.67213E-02	1.2876E+00	3.4800E-02	
													U-234	[1.6600E-01 g]	2.27078E+00	3.8110E+01	1.0300E+00	
													U-235	[3.6000E+01 g]	1.68875E-01	2.8342E+00	7.6600E-02	
													U-238	[4.6000E+02 g]	3.43923E-01	5.7720E+00	1.5600E-01	
													Subtotal			4.8566E+01	1.3126E+00	
													Total			4.8566E+01	1.3126E+00	
													SNM:	[3.6000E+01 g]				
													Source:	[6.2000E-02 kgs]				
WSM-74/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9026.4888	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	7.0792	100		oxid		Th-228	[1.0400E-11 kgs]	8.91302E-01	3.1413E-01	8.4900E-03	AS
		250.0000	9.9500	5.0000E-01	<2.000E+01	<1.500E+02		250.0000	100		el	NA	Th-232	[6.4000E-02 kgs]	7.35928E-01	2.5937E-01	7.0100E-03	
													Th-234	[1.5500E-12 kgs]	3.73738E+00	1.3172E+00	3.5600E-02	
													U-234	[1.7000E-01 g]	1.10232E+02	3.8850E+01	1.0500E+00	
													U-235	[3.7000E+01 g]	8.20964E+00	2.8934E+00	7.8200E-02	
													U-238	[4.6900E+02 g]	1.67972E+01	5.9200E+00	1.6000E-01	
													Subtotal			4.9554E+01	1.3393E+00	
													Total			4.9554E+01	1.3393E+00	
													SNM:	[3.7000E+01 g]				
													Source:	[6.4000E-02 kgs]				

**NOTE 1: Container Description Codes.** For containers/waste requiring disposal in approved structural over-packs the numerical code must be followed by "-OP."

1 Wooden Box or Crate	9 Demineralizer
2 Metal Box	10 Gas Cylinder
3 Plastic Drum or Pail	11 Bulk, Unpackaged Waste
4 Metal Drum or Pail	12 Unpackaged Components
5 Metal Tank or Liner	13 High Integrity Container
6 Concrete Tank or Liner	19 Other Describe in Item 6.
7 Polyethylene Tank or Liner	or additional page
8 Fiberglass Tank or Liner	

**Note 1A: Bulk Packaging Description Codes** (Choose one code as may be applicable)

A Gondola
B Intermodal
C End-dump
D Roll-off
E Seavan

**NOTE 2: Waste Descriptor Codes.** (Choose up to three which predominate by volume.)

20 Charcoal	29 Demolition Rubble	38 Evaporator Bottoms/Sludges/ Concentrates
21 Incinerator Ash	30 Cation Ion-exchange Media	39 Compactible Trash
22 Soil	31 Anion Ion-exchange Media	40 Noncompactible Trash
23 Gas	32 Mixed Bed Ion-exchange Media	41 Animal Carcass
24 Oil	33 Contaminated Equipment	42 Biological Material (except animal carcass)
25 Aqueous Liquid	34 Organic Liquid (except oil)	43 Activated Material
26 Filter Media	35 Glassware or Labware	59 Other Describe in item 11, or additional page
27 Mechanical Filter	36 Sealed Source/Device	
28 EPA or State Hazardous	37 Paint or Plating	

**Note 2A: Specific Waste Descriptions** (Choose all applicable codes.)

G Dewatered
H Solid
I Combustible
J Non-combustible
K Air Filtration Filters
L Asbestos

**Note 3: Solidification and Stabilization Media Codes.** (Choose up to three which predominate by volume.) For media meeting disposal site structural stability requirements, the numerical code must be followed by "-S" and the media vendor and brand name must also be identified in item 13. Code 100=NONE REQUIRED

<b>Solidification</b>	
90 Cement	94 Vinyl Ester Styrene
91 Concrete	99 Other Describe in item 13, or additional page
92 Bitumen	
93 Vinyl Chloride	100 None Required

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
**0674-04-35**

3. PAGE 2 OF 2 PAGE(S)

**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION							WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C	
5 CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6 CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7 VOLUME <u>(m3)</u> (R3)	8 WASTE AND CONTAINER WEIGHT <u>(kg)</u> (ton)	9 SURFACE RADIATION LEVEL <u>mSv/hr</u> mrem/hr	10 SURFACE CONTAMINATION <u>MBq/100 cm2</u> dpm/100 cm2		11 PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION						
					ALPHA	BETA-GAMMA	11 WASTE DESCRIPTOR (See Note 2 & Note 2A)	12 APPROXIMATE WASTE VOLUME(S) IN CONTAINER <u>(m3)</u> (FT3)	13 SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0 1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT						
												RADIONUCLIDES	pCi/gm	MBq	mCi			
WSM-75/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9253.2850	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	100 100	100 100	e/	oxid NA		Th-228	[1.0700E-11 kgs]	1.95794E-02	3.2860E-01	8.8810E-03	AS
		250.0000	10.2000	5.0000E-01	<2.000E+01	<1.500E+02		250.0000					Th-232	[6.6000E-02 kgs]	1.60498E-02	2.6936E-01	7.2800E-03	
													Th-234	[1.6000E-12 kgs]	8.13511E-02	1.3653E+00	3.6900E-02	
													U-234	[1.7600E-01 g]	2.40305E+00	4.0330E+01	1.0900E+00	
													U-235	[3.8000E+01 g]	1.78796E-01	3.0007E+00	8.1100E-02	
													U-238	[4.8700E+02 g]	3.65970E-01	6.1420E+00	1.6600E-01	
													Subtotal			5.1436E+01	1.3902E+00	
													===== Total			5.1436E+01	1.3902E+00	
													SNM:	[3.8000E+01 g]				
													Source:	[6.6000E-02 kgs]				
WSM-76/37-000497-15(A)	19 SUPER SACK - 10YD3	7.0792	9616.1589	5.0000E-03	<3.3400E-07	<2.5050E-06	22-H	100 100	100 100	e/	oxid NA		Th-228	[1.1000E-11 kgs]	1.99520E-02	3.3485E-01	9.0500E-03	AS
		250.0000	10.6000	5.0000E-01	<2.000E+01	<1.500E+02		250.0000					Th-232	[6.8000E-01 kgs]	1.64686E-02	2.7639E-01	7.4700E-03	
													Th-234	[1.6500E-12 kgs]	8.35557E-02	1.4023E+00	3.7900E-02	
													U-234	[1.8100E-01 g]	2.46919E+00	(4.1440E+01)	(1.1200E+00)	
													U-235	[3.9000E+01 g]	1.83646E-01	3.0821E+00	8.3300E-02	
													U-238	[5.0100E+02 g]	3.74788E-01	6.2900E+00	1.7000E-01	
													Subtotal			1.1386E+01	3.0772E-01	
													===== Total			1.1386E+01	3.0772E-01	
													SNM:	[3.9000E+01 g]				
													Source:	[6.8000E-01 kgs]				
Shipment Totals		28.3168	36740.9845										SNM:	[1.5000E+02 g]		1.6094E+02	4.3498E+00	
		1000.0000	40.5000										Source:	[8.7200E-01 kgs]				

# UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST ISOTOPES REPORT

For Manifest # 0674-04-35  
Envirocare of Utah, Inc.

<u>Isotope</u>	<u>Total Activity</u>	
	<u>(MBq)</u>	<u>(mCi)</u>
Th-228	1.2854E+00	3.4741E-02
Th-232	1.0593E+00	2.8630E-02
Th-234	5.3724E+00	1.4520E-01
U-234	1.5873E+02	4.2900E+00
U-235	1.1810E+01	3.1920E-01
U-238	2.4124E+01	6.5200E-01

**SNM Exemption Certification**  
(EC-0230-SNM)

7/12/99

Revision 1

The SNM Exemption Certification form must be completed and signed by each generator certifying to the following conditions. Please attach this form and all required information to the Radioactive Waste Profile Record (EC-0230). A completed and signed copy of this form must also accompany each waste manifest.

Generator No. / Waste Stream No. ~~88888~~ 0674-04 Manifest No. 0674-04-35

1. Please check one of the following that applies to the waste stream:

√	Uranium Enrichment Percent	Percent MgO by Weight	Percent Beryllium by Weight	U-235 Concentration (pCi/g)	Measurement Uncertainty* (pCi/g)
<input checked="" type="checkbox"/>	< 10 %	≤ 20 %	≤ 1 %	≤ 1900	≤ 285
<input type="checkbox"/>	≥ 10 %	≤ 20 %	≤ 1 %	≤ 1190	≤ 179
<input type="checkbox"/>	Unlimited	Unlimited	Unlimited	≤ 160	≤ 24
<input type="checkbox"/>	Unlimited	Sum of both ≤ 49 % of waste by weight		≤ 680	≤ 102
<input type="checkbox"/>	Not Applicable - Enriched U-235 is not present in the waste.				

\* A concentration value is used for the maximum measurement uncertainty limit rather than a percentage value to allow greater flexibility for generators with waste having very low SNM concentrations.

2. Please certify to the following requirements by checking each box:

- a. Concentrations of SNM in individual waste containers do not exceed the applicable values listed in the above table and SNM isotope concentrations listed in Table 1.
- b. The SNM is homogeneously distributed throughout the waste or the SNM concentrations in any contiguous mass of 145 kilograms (320 lbs) do not exceed on average the specified limits. (Based on process knowledge or testing).
- c. Except as allowed by Condition 1, the waste does not contain "pure forms" of chemicals containing carbon, fluorine, magnesium, or bismuth in bulk quantities (e.g., a pallet of drums, a B-25 box). By "pure forms," it is meant that mixtures of the above elements such as magnesium oxide, magnesium carbonate, magnesium fluoride, bismuth oxide, etc. do not contain other elements. (Based on process knowledge or testing).
- d. Except as allowed by Condition 1, the waste does not contain total quantities of beryllium, hydrogenous material enriched in deuterium, or graphite above one percent of the total weight of the waste. (Based on process knowledge, physical observations, or testing).
- e. Waste packages do not contain highly soluble forms of uranium greater than 350 grams of uranium-235 or 200 grams of uranium-233. If the waste contains mixtures of U-233 and U-235, the waste meets the sum of the fractions rule. Highly soluble forms of uranium include, but are not limited to: uranium sulfate, uranyl acetate, uranyl chloride, uranyl formate, uranyl fluoride, uranyl nitrate, uranyl potassium carbonate, and uranyl sulfate. (Based on process knowledge or testing).

Table 1. Maximum concentrations of SNM in individual waste containers (refer to above table for U-235 limits).

Radionuclide	Maximum Concentration (pCi/g)	Measurement Uncertainty (pCi/g)	Radionuclide	Maximum Concentration (pCi/g)	Measurement Uncertainty (pCi/g)
U-233	75,000	11,250	Pu-241	350,000	50,000
Pu-236	500	75	Pu-242	10,000	1,500
Pu-238	10,000	1,500	Pu-243	500	75
Pu-239	10,000	1,500	Pu-244	500	75
Pu-240	10,000	1,500			



**SNM Exemption Certification**  
(EC-0230-SNM)

7/12/99

Revision 1

3. Please indicate that the following information is attached to the Radioactive Waste Profile Record by checking each box. (Note: Only the two-page SNM Exemption Certification form needs to be included with each manifest).

- a. Provide a description of how the waste was generated, list the physical forms in the waste, and identify the uranium chemical composition.
- b. Provide a general description of how the waste was characterized (including the volumetric extent of the waste, and the number, location, type, and results of any analytical testing), the range of SNM concentrations, and the analytical results with error values used to develop the concentration ranges.
- c. Describe the process by which the waste was generated showing that the spatial distribution of SNM must be uniform, or other information supporting spatial distribution.
- d. Describe the methods to be used to determine the concentrations on the manifests. These methods could include direct measurement and the use of scaling factors. Describe the uncertainty associated with sampling and testing used to obtain the manifest concentrations.

4. **Generator's certification of compliance with the SNM exemption:** I certify that the information provided on this form is complete, true, and correct and is based on process knowledge, physical observations, or approved laboratory testing. I also certify that sampling and radiological testing of waste containing SNM was performed in accordance with Envirocare's Radioactive Material License and that any supporting documentation and analytical results have been submitted to Envirocare of Utah, Inc.

Erwin Dobrushin      Erwin Dobrushin      Sr. Prod. Mgr.      9/30/01  
 Authorized Signature      Printed Name      Title      Date

FORM 540		Envirocare of Utah, Inc.		5. SHIPPER - NAME AND FACILITY Westinghouse Electric Company - SMP RD #4 Box 333 Westinghouse Road Blairsville, PA 15717		SHIPMENT I.D. NUMBER NA		7. FORM 540 AND 540A FORM 541 AND 541A FORM 542 AND 542A ADDITIONAL INFORMATION		8. MANIFEST NUMBER (Use this number on all continuation pages) 0674-04-036							
UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER		Utah Generator Site Access Permit No NA		SHIPMENT NUMBER NA		COLLECTOR		PAGE 1 OF 4 PAGE(S) None		PAGE 2 OF 4 PAGE(S) None							
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) 412-374-4019		CONTACT Irwin Dobrushin		TELEPHONE NUMBER (Include Area Code) 412-374-6094		PROCESSOR		9. CONSIGNEE - Name and Facility Address Envirocare of Utah, Inc. Clive Disposal Site Interstate 80, Exit 49 Clive, UT 84029		CONTACT Shipping and Receiving TELEPHONE NUMBER (Include Area Code) (435)884-0155							
ORGANIZATION Westinghouse Electric Company		6. CARRIER - Name and Address MHF Incorporated 300 Granview Blvd. Zellonople, Pa 16063		EPA I.D. NUMBER PAR00000281		GENERATOR TYPE (Specify) <input checked="" type="checkbox"/> <input type="checkbox"/>		SIGNATURE - Authorized consignee acknowledging waste receipt		DATE							
2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 22		SHIPPING DATE 12/13/01		TELEPHONE NUMBER (Include Area Code) 724-452-3900		10. CERTIFICATION This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations		AUTHORIZED SIGNATURE <i>Irwin Dobrushin</i>							
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number		EPA MANIFEST NUMBER NA		CONTACT Megan Olczak		DATE		TITLE <i>Irwin Dobrushin</i>		DATE 12/13/01							
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)		12. DOT LABEL "RADIOACTIVE"		13. TRANSPORT INDEX		14. PHYSICAL AND CHEMICAL FORM		15. INDIVIDUAL RADIONUCLIDES		16. TOTAL PACKAGE ACTIVITY mCi		17. LSA/SCO CLASS		18. TOTAL WEIGHT OR VOLUME (Use appropriate units)		19. IDENTIFICATION NUMBER OF PACKAGE	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910		NA		na		Solid / oxide		Ra-226 Th-230 U-235 U-238 Th-232 U-234		8.5951E-01 2.3230E-02		NA		580. LBS; 7.5 FT3		B-007	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910		NA		na		Solid /oxide		Ra-226 Th-230 U-235 U-238 Th-232 U-234		8.2171E-01 2.2208E-02		NA		590. LBS; 7.5 FT3		Calig / DOT 17H	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910		NA		NA		Solid /OXIDE		Ra-228 Th-230 U-235 U-238 Th-232 U-234		7.9361E-01 2.1449E-02		NA		560. LBS; 7.5 FT3		B-010	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910		NA		NA		Solid /OXIDE		Ra-228 Th-230 U-235 U-238 Th-232 U-234		7.9361E-01 2.1449E-02		NA		560. LBS; 7.5 FT3		Calig / DOT 17H	
FOR CONSIGNEE USE ONLY				Record Waste Description Inadequate Contamination or Leakage Detected Unexpected Exposure Rates Detected Labels, Markings, etc. Inadequate Container Integrity Inadequate Other No Violations Detected on this Shipment.				20. TERMS AND CONDITION A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material _____ is (or) _____ is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1. B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc. C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST) are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license. D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST.) or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.									

FORM 540A

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST  
SHIPPING PAPER (CONTINUATION)**

Envirocare of Utah, Inc.

8 MANIFEST NUMBER  
(Use this number on all continuation  
pages)  
**0674-04-036**

PAGE 2 OF 4 PAGES

11 U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)	12. DOT LABEL "RADIOACTIVE"	13. TRANSPORT INDEX	14. PHYSICAL AND CHEMICAL FORM	15. INDIVIDUAL RADIONUCLIDES				16. TOTAL PACKAGE ACTIVITY MBq mCi		17. LSA/SCO CLASS	18. TOTAL WEIGHT OR VOLUME (Use appropriate units)	19. IDENTIFICATION NUMBER OF PACKAGE
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	7.9365E-01	2.1450E-02	NA	570. LBS; 7.5 FT3	B-011
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid / oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	7.9365E-01	2.1450E-02	NA	570. LBS; 7.5 FT3	B-012
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	8.0856E-01	2.1853E-02	NA	580. LBS; 7.5 FT3	B-013
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	8.3846E-01	2.2661E-02	NA	600. LBS; 7.5 FT3	B-014
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid / oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	8.3061E-01	2.2449E-02	NA	580. LBS; 7.5 FT3	B-015
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	7.7830E-01	2.1035E-02	NA	550. LBS; 7.5 FT3	B-016
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.2236E+00	3.3070E-02	NA	570. LBS; 7.5 FT3	B-017

FORM 540A (10-96)

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST  
SHIPPING PAPER (CONTINUATION)**

Envirocare of Utah, Inc

**8** MANIFEST NUMBER  
(Use this number on all continuation pages)  
**0674-04-036**

PAGE **3** OF **4** PAGES

11 U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)	12 DOT LABEL "RADIOACTIVE"	13 TRANSPORT INDEX	14 PHYSICAL AND CHEMICAL FORM	15 INDIVIDUAL RADIONUCLIDES				16 TOTAL PACKAGE ACTIVITY MBq mCi		17 LSA/SCO CLASS	18 TOTAL WEIGHT OR VOLUME (Use appropriate units)	19 IDENTIFICATION NUMBER OF PACKAGE
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.1813E+00	3.1928E-02	NA	550. LBS; 7.5 FT3	B-019
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	NA	Solid /NA	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.1812E+00	3.1925E-02	NA	550. LBS; 7.5 FT3	B-020
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.3098E+00	3.5401E-02	NA	610. LBS; 7.5 FT3	B-025
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.3098E+00	3.5401E-02	NA	610. LBS; 7.5 FT3	B-026
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.1812E+00	3.1925E-02	NA	550. LBS; 7.5 FT3	B-027
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.2455E+00	3.3663E-02	NA	580. LBS; 7.5 FT3	B-028
												Calig / DOT 17H

UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST  
SHIPPING PAPER (CONTINUATION)

11 U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)	12 DOT LABEL "RADIOACTIVE"	13 TRANSPORT INDEX	14 PHYSICAL AND CHEMICAL FORM	15 INDIVIDUAL RADIONUCLIDES				16 TOTAL PACKAGE ACTIVITY MBq		17 LSA/SCO CLASS	18 TOTAL WEIGHT OR VOLUME (Use appropriate units)	19 IDENTIFICATION NUMBER OF PACKAGE
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.2847E+00	3.4722E-02	NA	600. LBS; 7.5 FT3	B-029  Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Concr-/oxide metal / DAW	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.3560E+01	3.6650E-01	NA	2987. LBS; 100. FT3	B-031  B-25 metal box
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.5288E+00	4.1319E-02	NA	712. LBS; 7.5 FT3	B-032  Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Concr-/ oxide metc (	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.3560E+01	3.6650E-01	NA	3200. LBS; 100. FT3	B-033  B-25 metal box
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.4604E+00	3.9469E-02	NA	680. LBS; 7.5 FT3	B-157  Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.3599E+00	3.6755E-02	NA	640. LBS; 7.5 FT3	B-168  Calig / DOT 17H

<b>FORM 541</b>  <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST</b>  <b>CONTAINER AND WASTE DESCRIPTION</b>  Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste	Envirocare of Utah, Inc.		1. MANIFEST TOTALS				2. MANIFEST NUMBER 0674-04-036	
	NUMBER OF PACKAGES/ DISPOSAL CONTAINERS	NET WASTE VOLUME	NET WASTE WEIGHT	SPECIAL NUCLEAR MATERIAL (grams)			TOTAL	
				U-233	U-235	Pu		
	22	m3 9.9114	kg 8173.2814	NP	7.0000E+01 22 Packages	NP	7.0000E+01	
		ft3 350.0000	ton 9.0095	ACTIVITY			SOURCE	
	ALL NUCLIDES	TRITIUM	C-14	Tc-99	I-129			
	MBq 4.7671E+01	NP	NP	NP	NP	(kgs)	1.1073E+01	SHIPMENT ID NUMBER NA
	mCi 1.2884E+00	NP	NP	NP	NP	(tons)	1.2206E-02	

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16 WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C					
5 CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6 CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7 VOLUME (m3) (ft3)	8 WASTE AND CONTAINER WEIGHT (kg) (ton)	9 SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10 SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)	11 PHYSICAL DESCRIPTION			12 APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)			13 SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)			14 CHEMICAL DESCRIPTION		15 RADIOLOGICAL DESCRIPTION				
						ALPHA	BETA-GAMMA	WASTE DESCRIPTOR (See Note 2 & Note 2A)	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT										
						RADIONUCLIDES				pCi/um				MBq				mCi			
B-007/37-000497-15(A)	4-B-OP Callg / DOT 17H	0.2124	263.0836	2.0000E-04	3.3400E-06	2.5050E-06	29	0.2124	89-H-300 Soil	NONE/NP	NP	Ra-226	4.55624E-01	5.7350E-03	1.5500E-04	AS					
		7.5000	0.2900	2.0000E-02	2.0000E+02	1.5000E+02						7.5000	Th-230 [7.0400E-09 kgs]	4.02713E-01	(5.0690E-03)		(1.3700E-04)	Th-232 [2.3500E-03 kgs]	3.69791E+00	(4.6546E-02)	(1.2580E-03)
						U-238 [3.7000E+01 g]				3.73318E+00				4.6990E-02				1.2700E-03			
						Subtotal				2.0480E-01				5.5350E-03				=====			
						Total				2.0480E-01				5.5350E-03				=====			
						SNM: [2.0000E+00 g]				Source: [2.3500E-03 kgs]											
B-008/37-000497-15(A)	4-B-OP Callg / DOT 17H	0.2124	267.6195	2.0000E-04	3.3400E-06	2.5050E-06	29	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	3.48332E-01	(5.8460E-03)	(1.5800E-04)	AS					
		7.5000	0.2950	2.0000E-02	2.0000E+02	1.5000E+02						7.5000	Th-230 [7.0400E-09 kgs]	3.02035E-03	(5.0690E-05)		(1.3700E-05)	Th-232 [2.3500E-03 kgs]	5.71000E-01	(9.5830E-03)	(2.5900E-04)
						U-238 [3.7000E+01 g]				2.79989E+00				4.6990E-02				1.2700E-03			
						Subtotal				8.0623E-01				2.1790E-02				=====			
						Total				8.0623E-01				2.1790E-02				=====			
						SNM: [2.0000E+00 g]				Source: [2.3500E-03 kgs]											

- NOTE 1: Container Description Codes.** For containers/waste requiring disposal in approved structural over-packs the numerical code must be followed by "-OP."
- |                               |  |
|-------------------------------|--|
| 1. Wooden Box or Crate        | 9. Demineralizer                                 |
| 2. Metal Box                  | 10. Gas Cylinder                                 |
| 3. Plastic Drum or Pail       | 11. Bulk, Unpackaged Waste                       |
| 4. Metal Drum or Pail         | 12. Unpackaged Components                        |
| 5. Metal Tank or Liner        | 13. High Integrity Container                     |
| 6. Concrete Tank or Liner     | 19. Other Describe in Item 6, or additional page |
| 7. Polyethylene Tank or Liner |  |
| 8. Fiberglass Tank or Liner   |  |

- Note 1A: Bulk Packaging Description Codes** (Choose one code as may be applicable.)
- |              |
|--------------|
| A Gondola    |
| B Intermodal |
| C End-dump   |
| D Roll-off   |
| E Seavan     |

- NOTE 2: Waste Descriptor Codes.** (Choose up to three which predominate by volume.)
- |                            |                                  |   |
|----------------------------|----------------------------------|---|
| 20. Charcoal               | 29. Demolition Rubble            | 38. Evaporator Bottoms/Sludges/ Concentrates      |
| 21. Incinerator Ash        | 30. Cation Ion-exchange Media    | 39. Compactible Trash                             |
| 22. Soil                   | 31. Anion Ion-exchange Media     | 40. Noncompactible Trash                          |
| 23. Gas                    | 32. Mixed Bed Ion-exchange Media | 41. Animal Carcass                                |
| 24. Oil                    | 33. Contaminated Equipment       | 42. Biological Material (except animal carcass)   |
| 25. Aqueous Liquid         | 34. Organic Liquid (except oil)  | 43. Activated Material                            |
| 26. Filter Media           | 35. Glassware or Labware         | 59. Other Describe in item 11, or additional page |
| 27. Mechanical Filter      | 36. Sealed Source/Device         |   |
| 28. EPA or State Hazardous | 37. Paint or Plating             |   |

- Note 2A: Specific Waste Descriptions** (Choose all applicable codes.)
- |                          |
|--------------------------|
| G Dewatered              |
| H Solid                  |
| I Combustible            |
| J Non-combustible        |
| K Air Filtration Filters |
| L Asbestos               |

- Note 3: Solidification and Stabilization Media Codes.** (Choose up to three which predominate by volume.) For media meeting disposal site structural stability requirements, the numerical code must be followed by "-S" and the media vendor and brand name must also be identified in item 13. Code 100=NONE REQUIRED
- |                             |  |
|-----------------------------|--|
| Solidification              | 94 Vinyl Ester Styrene                           |
| 90 Cement                   | 99 Other Describe in item 13, or additional page |
| 91 Concrete (encapsulation) |  |
| 92 Bitumen                  | 100 None Required                                |
| 93 Vinyl Chloride           |  |

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-036

3. PAGE 2 OF 8 PAGE(S)

DISPOSAL CONTAINER DESCRIPTION						CONTAINER AND WASTE DESCRIPTION (CONTINUATION)						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER				16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C	
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT (F>0.1%)	15. RADIOLOGICAL DESCRIPTION				
					ALPHA	BETA-GAMMA		INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT									
													RADIONUCLIDES	pCi/gm	MBq	mCi	
B-010/37-000497-15(A)	4-B-OP Callig / DOT 17H	0.2124	254.0117	2.0000E-04	3.3400E-06	2.5050E-06	29	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	4.49745E-01	(5.6610E-03)	(1.5300E-04)		
		7.5000	0.2800	2.0000E-02	2.0000E+02	1.5000E+02		7.5000				Th-230 [7.0400E-09 g]	4.02713E-01	(5.0690E-03)	(1.3700E-04)		
												Th-232 [2.3500E-03 g]	7.61334E-01	(9.5830E-03)	(2.5900E-04)		
												U-234 [3.0000E-03 g]	4.61503E+01	5.8090E-01	1.5700E-02		
												U-235 [2.0000E+00 g]	1.16699E+01	1.4689E-01	3.9700E-03		
												U-238 [3.6000E+01 g]	3.61560E+00	4.5510E-02	1.2300E-03		
												Subtotal		7.7330E-01	2.0900E-02		
												Total		7.7330E-01	2.0900E-02		
												SNM: [2.0000E+00 g]					
B-011/37-000497-15(A)	4-B-OP Callig / DOT 17H	0.2124	258.5477	2.0000E-04	3.3400E-06	2.5050E-06	29-H	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	3.48332E-01	(5.8460E-03)	(1.5800E-04)		
		7.5000	0.2850	2.0000E-02	2.0000E+02	1.5000E+02		7.5000				Th-230 [4.7800E-11 kgs]	4.03448E-04	(6.7710E-06)	(1.8300E-07)		
												Th-232 [3.85811E-03 g]	3.85811E-03	(6.4750E-05)	(1.7500E-06)		
												U-234 [3.0000E-03 g]	3.52741E+01	5.9200E-01	1.6000E-02		
												U-235 [2.0000E+00 g]	8.90672E+00	1.4948E-01	4.0400E-03		
												U-238 [3.7000E+01 g]	2.75579E+00	4.6250E-02	1.2500E-03		
												Subtotal		7.8773E-01	2.1290E-02		
												Total		7.8773E-01	2.1290E-02		
												SNM: [2.0000E+00 g]					
												Source: [4.7800E-11 kgs]					
B-012/37-000497-15(A)	4-B-OP Callig / DOT 17H	0.2124	258.5477	2.0000E-04	3.3400E-06	2.5050E-06	29-H	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	3.48332E-01	(5.8460E-03)	(1.5800E-04)		
		7.5000	0.2850	2.0000E-02	2.0000E+02	1.5000E+02		7.5000				Th-230 [4.7800E-11 kgs]	4.03448E-04	(6.7710E-06)	(1.8300E-07)		
												Th-232 [3.85811E-03 g]	3.85811E-03	(6.4750E-05)	(1.7500E-06)		
												U-234 [3.0000E-03 g]	3.52741E+01	5.9200E-01	1.6000E-02		
												U-235 [2.0000E+00 g]	8.90672E+00	1.4948E-01	4.0400E-03		
												U-238 [3.7000E+01 g]	2.75579E+00	4.6250E-02	1.2500E-03		
												Subtotal		7.8773E-01	2.1290E-02		
												Total		7.8773E-01	2.1290E-02		
												SNM: [2.0000E+00 g]					
												Source: [4.7800E-11 kgs]					

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-036

3. PAGE 3 OF 8 PAGE(S)

DISPOSAL CONTAINER DESCRIPTION			CONTAINER AND WASTE DESCRIPTION (CONTINUATION)				WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER								16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C		
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (R3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION				
					ALPHA	BETA-GAMMA		WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT								
RADIONUCLIDES																	
pCi/gm																	
MBq																	
mCi																	
B-013/37-000497-15(A)	4-B-OP Callig / DOT 17H	0.2124	263.0836	2.0000E-04	3.3400E-06	2.5050E-06	29	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	4.64443E-01	5.8460E-03	1.5800E-04	AS	
		7.5000	0.2900	2.0000E-02	2.0000E+02	1.5000E+02		7.5000				Th-230 [7.0400E-09 kgs]	4.02713E-01	(5.0690E-03)	(1.3700E-04)		Th-232 [2.3500E-03 kgs]
												U-234 [3.0000E-03 g]	4.70322E+01	5.9200E-01	1.6000E-02		
												U-235 [2.0000E+00 g]	1.19050E+01	1.4985E-01	4.0500E-03		
												U-238 [3.7000E+01 g]	3.67439E+00	4.6250E-02	1.2500E-03		
												Subtotal		7.9395E-01	2.1458E-02		
												Total		7.9395E-01	2.1458E-02		
												SNM: [2.0000E+00 g]					
												Source: [2.3500E-03 kgs]					
B-014/37-000497-15(A)	4-B-OP Callig / DOT 17H	0.2124	272.1554	2.0000E-04	3.3400E-06	2.5050E-06	29	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	3.59355E-01	(6.0310E-03)	(1.6300E-04)	AS	
		7.5000	0.3000	2.0000E-02	2.0000E+02	1.5000E+02		7.5000				Th-230 [7.0400E-09 kgs]	4.03448E-04	(6.7710E-06)	(1.8300E-07)		Th-232 [3.04240E-01 kgs]
												U-234 [3.0000E-03 g]	3.70379E+01	6.2160E-01	1.6800E-02		
												U-235 [2.0000E+00 g]	9.36970E+00	1.5725E-01	4.2500E-03		
												U-238 [3.9000E+01 g]	2.88807E+00	4.8470E-02	1.3100E-03		
												Subtotal		8.2732E-01	2.2360E-02		
												Total		8.2732E-01	2.2360E-02		
												SNM: [2.0000E+00 g]					
												Source: [7.0400E-09 kgs]					
B-015/37-000497-15(A)	4-B-OP Callig / DOT 17H	0.2124	263.0836	2.0000E-04	3.3400E-06	2.5050E-06	29	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	4.49745E-01	(5.6610E-03)	(1.5300E-04)	AS	
		7.5000	0.2900	2.0000E-02	2.0000E+02	1.5000E+02		7.5000				Th-230 [7.0400E-09 kgs]	4.64443E-01	(5.8460E-03)	(1.5800E-04)		Th-232 [2.3500E-03 kgs]
												U-234 [3.0000E-03 g]	4.85020E+01	6.1050E-01	1.6500E-02		
												U-235 [2.0000E+00 g]	1.20814E+01	1.5207E-01	4.1100E-03		
												U-238 [3.7000E+01 g]	3.73318E+00	4.6990E-02	1.2700E-03		
												Subtotal		8.0956E-01	2.1880E-02		
												Total		8.0956E-01	2.1880E-02		
												SNM: [2.0000E+00 g]					
												Source: [2.3500E-03 kgs]					



DISPOSAL CONTAINER DESCRIPTION							CONTAINER AND WASTE DESCRIPTION (CONTINUATION)										16. WASTE CLASSIFICATION	
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION				16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C	
					ALPHA	BETA-GAMMA		WEIGHT % CHELATING AGENT (F>0.1%)	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT									
													RADIONUCLIDES					
													pCi/m	MBq	mCi			
B-016/37-000497-15(A)	4-B-OP Callig / DOT 17H	0.2124	249.4758	2.0000E-04	3.3400E-06	2.5050E-06	29	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226 [6.6700E-09 kgs] 3.30695E-01 5.5500E-03 1.5000E-04 Th-232 [2.2200E-03 kgs] 2.86602E-01 (4.8100E-03) (1.3000E-04) U-234 [3.0000E-03 g] 5.40135E-01 9.0650E-03 2.4500E-04 U-235 [2.0000E+00 g] 3.39514E+01 5.6980E-01 1.5400E-02 8.59807E+00 1.4430E-01 3.9000E-03				AS		
		7.5000	0.2750	2.0000E-02	2.0000E+02	1.5000E+02		7.5000				U-238 [3.5000E+01 g] 2.66761E+00 4.4770E-02 1.2100E-03	Subtotal 7.7349E-01 2.0905E-02	Total 7.7349E-01 2.0905E-02				
													SNM: [2.0000E+00 g]		Source: [2.2200E-03 kgs]			
B-017/37-000497-15(A)	4-B-OP Callig / DOT 17H	0.2124	258.5477	2.0000E-04	3.3400E-06	2.5050E-06	29	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226 [6.6700E-09 kgs] 3.41718E-01 5.7350E-03 1.5500E-04 Th-232 [2.2200E-03 kgs] 2.86602E-01 (4.8100E-03) (1.3000E-04) U-234 [3.0000E-03 g] 5.40135E-01 (9.0650E-03) (2.4500E-04) U-235 [2.0000E+00 g] 3.52741E+01 5.9200E-01 1.6000E-02 8.90672E+00 1.4948E-01 4.0400E-03				AS		
		7.5000	0.2850	2.0000E-02	2.0000E+02	1.5000E+02		7.5000				U-238 [3.7000E+01 g] 2.75579E+01 4.6250E-01 1.2500E-02	Subtotal 1.2097E+00 3.2695E-02	Total 1.2097E+00 3.2695E-02				
													SNM: [2.0000E+00 g]		Source: [6.6700E-09 kgs]			
B-019/37-000497-15(A)	4-B-OP Callig / DOT 17H	0.2124	249.4758	2.0000E-04	3.3400E-06	2.5050E-06	29	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226 [6.6700E-09 kgs] 4.49745E-01 (5.6610E-03) (1.5300E-04) Th-232 [2.2200E-03 kgs] 3.82137E-01 (4.8100E-03) (1.3000E-04) U-234 [3.0000E-03 g] 7.20180E-01 (9.0650E-03) (2.4500E-04) U-235 [2.0000E+00 g] 4.52685E+01 5.6980E-01 1.5400E-02 1.14641E+01 1.4430E-01 3.9000E-03				AS		
		7.5000	0.2750	2.0000E-02	2.0000E+02	1.5000E+02		7.5000				U-238 [3.5000E+01 g] 3.55681E+01 4.4770E-01 1.2100E-02	Subtotal 1.1618E+00 3.1400E-02	Total 1.1618E+00 3.1400E-02				
													SNM: [2.0000E+00 g]		Source: [2.2200E-03 kgs]			

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

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2. MANIFEST NUMBER  
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**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION					WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C		
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBA/100 cm2) (dpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. PHYSICAL DESCRIPTION		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION				
					ALPHA	BETA-GAMMA		WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT (F>0.1%)	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT				
												RADIONUCLIDES		pCi/gm	MBq	mCi	
B-020/37-000497-15(A)	4-B-OP Callig / DOT 17H	0.2124	249.4758	2.0000E-04	0.0000E+00	0.0000E+00	29	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	4.40927E-01	5.5500E-03	1.5000E-04	AS	
		7.5000	0.2750	2.0000E-02	0.0000E+00	0.0000E+00		7.5000				Th-230 [6.6700E-09 kgs]	3.82137E-01	(4.8100E-03)	(1.3000E-04)		Th-232 [2.2300E-03 kgs]
												U-234 [3.0000E-03 g]	4.52685E+01	5.6980E-01	1.5400E-02		
												U-235 [2.0000E+00 g]	1.14641E+01	1.4430E-01	3.9000E-03		
												U-238 [3.5000E+01 g]	3.55681E+01	4.4770E-01	1.2100E-02		
												Subtotal		1.1674E+00	3.1550E-02		
												Total		1.1674E+00	3.1550E-02		
												SNM: [2.0000E+00 g]					
												Source: [2.2300E-03 kgs]					
B-025/37-000497-15(A)	4-B-OP Callig / DOT 17H	0.2124	276.6914	2.0000E-04	3.3400E-06	2.5050E-06	29	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	4.87959E-01	(6.1420E-03)	(1.6600E-04)	AS	
		7.5000	0.3050	2.0000E-02	2.0000E+02	1.5000E+02		7.5000				Th-230 [4.7800E-11 kgs]	4.23290E-01	(5.3280E-03)	(1.4400E-04)		Th-232 [2.4700E-03 kgs]
												U-234 [3.0000E-03 g]	5.02657E+01	6.3270E-01	1.7100E-02		
												U-235 [2.0000E+00 g]	1.26987E+01	1.5984E-01	4.3200E-03		
												U-238 [3.9000E+01 g]	3.93895E+01	4.9580E-01	1.3400E-02		
												Subtotal		1.2883E+00	3.4820E-02		
												Total		1.2883E+00	3.4820E-02		
												SNM: [2.0000E+00 g]					
												Source: [2.4700E-03 kgs]					
B-026/37-000497-15(A)	4-B-OP Callig / DOT 17H	0.2124	276.6914	2.0000E-04	0.0000E+00	0.0000E+00	29	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	3.65969E-01	6.1420E-03	1.6600E-04	AS	
		7.5000	0.3050	2.0000E-02	0.0000E+00	0.0000E+00		7.5000				Th-230 [7.4000E-09 kgs]	3.17467E-01	5.3280E-03	1.4400E-04		Th-232 [2.4700E-03 kgs]
												U-234 [3.0000E-03 g]	3.76992E+01	6.3270E-01	1.7100E-02		
												U-235 [2.0000E+00 g]	9.52402E+00	1.5984E-01	4.3200E-03		
												U-238 [3.9000E+01 g]	2.95421E+01	4.9580E-01	1.3400E-02		
												Subtotal		1.3098E+00	3.5401E-02		
												Total		1.3098E+00	3.5401E-02		
												SNM: [2.0000E+00 g]					
												Source: [2.4700E-03 kgs]					

**UNIFORM LOW-LEVEL RADIOACTIVE  
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Envirocare of Utah, Inc.

2. MANIFEST NUMBER

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CONTAINER AND WASTE DESCRIPTION (CONTINUATION)

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C					
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (lit)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. PHYSICAL DESCRIPTION		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION	WEIGHT % CHELATING AGENT (F>0.1%)	15. RADIOLOGICAL DESCRIPTION								
					ALPHA	BETA-GAMMA		WASTE VOLUME(S) IN CONTAINER (m3) (FT3)					INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT								
													RADIONUCLIDES	pCi/gm	MBq	mCi					
B-027/37-000497-15(A)	4-B-OP Callig / DOT 17H	0.2124	249.4758	2.0000E-04	0.0000E+00	0.0000E+00	29	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	3.30695E-01	5.5500E-03	1.5000E-04	AS					
		7.5000	0.2750	2.0000E-02	0.0000E+00	0.0000E+00						7.5000	Th-230 [6.6700E-09 kgs]	2.86602E-01	4.8100E-03		1.3000E-04	Th-232 [2.2200E-03 kgs]	5.40135E-01	9.0650E-03	2.4500E-04
												U-238 [3.5000E+01 g]	2.66761E+01	4.4770E-01	1.2100E-02						
												Subtotal		1.1812E+00	3.1925E-02						
												Total		1.1812E+00	3.1925E-02						
												SNM: [2.0000E+00 g]									
												Source: [2.2200E-03 kgs]									
B-028/37-000497-15(A)	4-B-OP Callig / DOT 17H	0.2124	263.0836	2.0000E-04	0.0000E+00	0.0000E+00	29	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	3.48332E-01	5.8460E-03	1.5800E-04	AS					
		7.5000	0.2900	2.0000E-02	0.0000E+00	0.0000E+00						7.5000	Th-230 [7.0400E-09 kgs]	3.02035E-01	5.0690E-03		1.3700E-04	Th-232 [2.3500E+00 kgs]	5.68796E-01	9.5460E-03	2.5800E-04
												U-238 [3.7000E+01 g]	2.79989E+01	4.6990E-01	1.2700E-02						
												Subtotal		1.2455E+00	3.3663E-02						
												Total		1.2455E+00	3.3663E-02						
												SNM: [2.0000E+00 g]									
												Source: [2.3500E+00 kgs]									
B-029/37-000497-15(A)	4-B Callig / DOT 17H	0.2124	272.1554	2.0000E-04	3.3400E-06	2.5050E-06	29	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	4.79140E-01	6.0310E-03	1.6300E-04	AS					
		7.5000	0.3000	2.0000E-02	2.0000E+02	1.5000E+02						7.5000	Th-230 [7.2800E-09 kgs]	4.17411E-01	(5.2540E-03)		(1.4200E-04)	Th-232 [2.4300E-03 kgs]	7.84850E-01	(9.8790E-03)	(2.6700E-04)
												U-238 [3.9000E+01 g]	3.85076E+01	4.8470E-01	1.3100E-02						
												Subtotal		1.2696E+00	3.4313E-02						
												Total		1.2696E+00	3.4313E-02						
												SNM: [2.0000E+00 g]									
												Source: [2.4300E-03 kgs]									

**UNIFORM LOW-LEVEL RADIOACTIVE  
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DISPOSAL CONTAINER DESCRIPTION

CONTAINER AND WASTE DESCRIPTION (CONTINUATION)

WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER

5 CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6 CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7 VOLUME (m3) (l3)	8 WASTE AND CONTAINER WEIGHT (kg) (ton)	9 SURFACE RADIATION LEVEL mSv/hr mrem/hr	10 SURFACE CONTAMINATION MBq/100 cm2 dpm/100 cm2		11 WASTE DESCRIPTOR (See Note 2 & Note 2A)	12 APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		13 SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14 CHEMICAL DESCRIPTION CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	15. RADIOLOGICAL DESCRIPTION				16 WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C				
					ALPHA	BETA-GAMMA		INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL, OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT													
								RADIONUCLIDES													
B-031/37-000497-15(A)	2-B B-25 metal box	2.8317	1354.8805	2.0000E-04	3.3400E-06	2.5050E-06	29-H	2.8317	100	oxide/NP	NP	Ra-226	1.19785E-01	6.0310E-03	1.6300E-04	AS					
		100.0000	1.4935	2.0000E-02	2.0000E+02	1.5000E+02		100.0000	Th-230 [4.7800E-11 kgs]			5.98191E-01	3.0118E-02	8.1400E-04	Th-230 [1.2100E-02 kgs]		1.34483E-04	6.7710E-06	1.8300E-07	Th-232 [2.0000E-06 kgs]	5.98191E-01
												Th-232 [1.2100E-02 kgs]	5.18089E-01	(2.6085E-02)	(7.0500E-04)						
												U-234 [1.4000E-02 g]	6.15828E+01	3.1006E+00	8.3800E-02						
												U-234 [2.5000E-02 g]	1.16111E+02	5.8460E+00	1.5800E-01						
												U-235 [1.0000E+01 g]	1.55794E+01	7.8440E-01	2.1200E-02						
												U-235 [5.0000E+00 g]	8.59807E+00	4.3290E-01	1.1700E-02						
												U-238 [1.9200E+02 g]	4.80610E+01	2.4198E+00	6.5400E-02						
												U-238 [7.0000E+01 g]	1.75636E+01	8.8430E-01	2.3900E-02						
												Subtotal		1.3474E+01	3.6416E-01						
												Total SNM: [1.5000E+01 g]		1.3474E+01	3.6416E-01						
												Source: [2.4202E-02 kgs]									
B-032/37-000497-15(A)	4-B-OP Callig / DOT 17H	0.2124	322.9578	2.0000E-04	0.0000E+00	0.0000E+00	29	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	4.27699E-01	7.1780E-03	1.9400E-04	AS					
		7.5000	0.3560	2.0000E-02	0.0000E+00	0.0000E+00		7.5000	Th-230 [8.6410E+00 kgs]			3.70379E-01	6.2160E-03	1.5800E-04	Th-232 [2.8800E-03 kgs]		6.98869E-01	1.1729E-02	3.1700E-04	U-234 [3.0000E-03 g]	4.40927E+01
												U-238 [4.6000E+01 g]	3.43923E+01	5.7720E-01	1.5600E-02						
												Subtotal		1.5288E+00	4.1319E-02						
												Total		1.5288E+00	4.1319E-02						
												SNM: [2.0000E+00 g]									
												Source: [8.6439E+00 kgs]									
B-033/37-000497-15(A)	2-B B-25 metal box	2.8317	1451.4957	2.0000E-04	3.3400E-06	2.5050E-06	29-H	2.8317	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	1.19785E-01	6.0310E-03	1.6300E-04	AS					
		100.0000	1.6000	2.0000E-02	2.0000E+02	1.5000E+02		100.0000	Th-230 [4.7800E-11 kgs]			5.98191E-01	3.0118E-02	8.1400E-04	Th-230 [1.2100E-02 kgs]		1.34483E-04	6.7710E-06	1.8300E-07	Th-232 [2.0000E-06 kgs]	5.98191E-01
												Th-232 [1.2100E-02 kgs]	5.18089E-01	(2.6085E-02)	(7.0500E-04)						
												U-234 [1.4000E-02 g]	6.15828E+01	3.1006E+00	8.3800E-02						
												U-234 [2.5000E-02 g]	1.16111E+02	5.8460E+00	1.5800E-01						
												U-235 [1.0000E+01 g]	1.55794E+01	7.8440E-01	2.1200E-02						
												U-235 [5.0000E+00 g]	8.59807E+00	4.3290E-01	1.1700E-02						

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc

2. MANIFEST NUMBER  
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CONTAINER AND WASTE DESCRIPTION (CONTINUATION)

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C			
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (lit)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. PHYSICAL DESCRIPTION APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION CHEMICAL FORM/ CHELATING AGENT		WEIGHT % CHELATING AGENT (F>0.1%)	15. RADIOLOGICAL DESCRIPTION INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL, OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT					
					ALPHA	BETA-GAMMA											RADIONUCLIDES		pCi/gram
															U-238 [1.9200E+02 g]	4.80610E+01	2.4198E+00	6.5400E-02	
															U-238 [7.0000E+01 ]	1.75636E+01	8.8430E-01	2.3900E-02	
															Subtotal		1.3474E+01	3.6416E-01	
															Total		1.3474E+01	3.6416E-01	
															SNM: [1.5000E+01 g]				
															Source: [2.4202E-02 kgs]				
B-157/37-000497-15(A)	4-B-OP Callig / DOT 17H	0.2124	308.4428	2.0000E-04	0.0000E+00	0.0000E+00	29	0.2124	89-H-300 Soil Moist	NONE/NP		NP		Ra-226 [8.2500E-09 kgs]	5.43810E-01	6.8450E-03	1.8500E-04	AS	
														Th-230 [2.7500E-03 kgs]	4.73261E-01	(5.9570E-03)	(1.6100E-04)		
														Th-232 [2.7500E-03 kgs]	8.90672E-01	(1.1211E-02)	(3.0300E-04)		
														U-234 [3.0000E-03 g]	5.61447E+01	7.0670E-01	1.9100E-02		
														U-235 [2.0000E+00 g]	1.41684E+01	1.7834E-01	4.8200E-03		
														U-238 [4.4000E+01 g]	4.37987E+01	5.5130E-01	1.4900E-02		
														Subtotal		1.4432E+00	3.9005E-02		
														Total		1.4432E+00	3.9005E-02		
														SNM: [2.0000E+00 g]					
														Source: [2.7500E-03 kgs]					
B-168/37-000497-15(A)	4-B-OP Callig / DOT 17H	0.2124	290.2991	2.0000E-04	3.3400E-06	2.5050E-06	29	0.2124	89-H-300 Soil Moist	NONE/NP		NP		Ra-226 [7.7700E-09 kgs]	5.11475E-01	(6.4380E-03)	(1.7400E-04)	AS	
														Th-230 [2.5900E-03 kgs]	4.43866E-01	5.5870E-03	1.5100E-04		
														Th-232 [2.5900E-03 kgs]	8.37761E-04	(1.0545E-05)	(2.8500E-07)		
														U-234 [3.0000E-03 g]	5.26173E+01	6.6230E-01	1.7900E-02		
														U-235 [2.0000E+00 g]	1.33160E+01	1.6761E-01	4.5300E-03		
														U-238 [4.1000E+01 ]	4.11532E+01	5.1800E-01	1.4000E-02		
														Subtotal		1.3535E+00	3.6581E-02		
														Total		1.3535E+00	3.6581E-02		
														SNM: [2.0000E+00 g]					
														Source: [2.5900E-03 kgs]					
Shipment Totals		9.9114	8173.2814											SNM: [7.0000E+01 g]		4.7671E+01	1.2884E+00		
		350.0000	9.0095											Source: [1.1073E+01 kgs]					

**UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST  
ISOTOPES REPORT**

For Manifest # 0674-04-036  
Envirocare of Utah, Inc.

<u>Isotope</u>	<u>Total Activity</u>	
	<u>(MBq)</u>	<u>(mCi)</u>
Ra-226	1.8578E-01	5.0210E-03
Ra-228	5.6610E-03	1.5300E-04
Th-230	1.4416E-01	3.8963E-03
Th-232	2.5008E-01	6.7590E-03
U-234	3.0162E+01	8.1520E-01
U-235	5.5322E+00	1.4952E-01
U-238	1.2425E+01	3.3581E-01

# L42631

**ARRIVED:** 12/17/01

**CUFEET:** 350

**RECORD:** 0674-04-0036

**Waste Type:** LARW

**HAZ\_MANIFEST:** N/A

**VEHICLE\_ID:** 4203

*Conveyance Release Survey:* \_\_\_\_\_



**This Memorandum** is an acknowledgement that a Bill of Lading has been issued and is not the Original Bill of Lading, nor is a copy of duplicate, covering the property named herein.

FORM 1180V

RECEIVED, subject to the classifications and lawfully fixed tariffs in effect on the date of the issue of this Bill of Lading.

OUR ORDER NO.

SHIPPER'S NO. (SHOW THESE NUMBERS ON FRT. BILL)

FROM: **Westinghouse Electric Company, LLC**

CUST. ORDER NO.

DATE

12/13/01

AT (PICK-UP POINT)

Westinghouse Electric Co  
MAIL FREIGHT BILLS TO (POST OFFICE ADDRESS)  
\* RD 4, Box 333, Westinghouse Rd  
Blairsville, GA 30717

CONSIGNEE TO (Mail or street address of consignee—For purposes of notification only)

Environment of Utah  
Clive Disposal Site  
Interstate 80 Exit 49  
Clive, Utah 84029

REMIT TO ADDRESS (RUBBER STAMP ADDRESS)

PRO. OR WAYBILL NO.

214343

DATE

12/13/01

THIS SHIPMENT IS CORRECTLY DESCRIBED, CORRECT WEIGHT IS SUBJECT TO VERIFICATION BY THE SOUTHERN, EASTERN OR WESTERN WEIGHING & INSPECTION BUREAU ACCORDING TO AGREEMENT. Subject to Section 7

PPD. OR COLL.

WESTINGHOUSE ELECTRIC CO., LLC

Signature of Consignor

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding per

CAR OR VEHICLE INITIAL AND NO.

4203

DELIVERING CARRIER

M.H.F.

NO. PKGS.	KIND OF PKG., DESCRIPTION OF ARTICLES, SPECIAL MARKS, AND EXCEPTIONS	*WEIGHT SUB. TO COR.	FOR CARRIER'S USE		NO. PKGS.	KIND OF PKG., DESCRIPTION OF ARTICLES, SPECIAL MARKS, AND EXCEPTIONS	*WEIGHT SUB. TO COR.	FOR CARRIER'S USE	
			RATE	FREIGHT CHARGES				RATE	FREIGHT CHARGES
6 boxes	Non radioactive Solid waste per DOT Regulations (49CFR 173.421)	23200 lbs							
TOTAL FREIGHT BILL									

see attached for inventory conditions

see 12/13/01

Westinghouse Electric Company, LLC Shipper, Per

A. Joseph Nardi Partners Agent, Per

A. Joseph NARDI

\* CARRIER: RETURN THIS MEMORANDUM COPY, COMPLETING THE CAPTIONS RESERVED FOR YOUR USE, AS/OR WITH YOUR FREIGHT BILL.

MEMORANDUM 2



FORM 540		Envirocare of Utah, Inc.		5. SHIPPER - NAME AND FACILITY Westinghouse Electric Company - SMP RD #4 Box 333 Westinghouse Road Blairsville, PA 15717		SHIPMENT ID NUMBER NA		7. FORM 540 AND 540A FORM 541 AND 541A FORM 542 AND 542A ADDITIONAL INFORMATION		8. MANIFEST NUMBER (Use this number on all continuation pages) 0674-04-036	
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) 412-374-4019		3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 22		6. CARRIER - Name and Address MHF Incorporated 300 Granview Blvd. Zelkople, Pa 15063		EPA I.D. NUMBER PAR000000281		9. CONSIGNEE - Name and Facility Address Envirocare of Utah, Inc. City Disposal Site Interstate 80, Exit 49 Clive, UT 84028		CONTACT Shipping and Receiving TELEPHONE NUMBER (Include Area Code) (435)884-0155	
2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number		CONTACT Irwin Dobrusahn		TELEPHONE NUMBER (Include Area Code) 412-374-6094		SIGNATURE <i>[Signature]</i> Authorized consignee acknowledging waste receipt		DATE 12/17/01	
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)		12. DOT LABEL "RADIOACTIVE"		13. TRANSPORT INDEX		14. PHYSICAL AND CHEMICAL FORM		15. INDIVIDUAL RADIONUCLIDES		16. TOTAL PACKAGE ACTIVITY mCi	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910		NA		na		Solid / oxide		Ra-226 Th-230 Th-232 U-234		8.5951E-01 2.3230E-02	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910		NA		na		Solid / oxide		Ra-226 Th-230 Th-232 U-234		8.2171E-01 2.2208E-02	
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910		NA		NA		Solid / OXIDE		Ra-228 Th-230 Th-232 U-234		7.9361E-01 2.1449E-02	
FOR CONSIGNEE USE ONLY		17. LSA/SCO CLASS		18. TOTAL WEIGHT OR VOLUME (Use appropriate units)		19. IDENTIFICATION NUMBER OF PACKAGE		20. TERMS AND CONDITION		10. CERTIFICATION	
Net weight: 8173.28 Gross weight:		NA		580. LBS; 7.5 FT3		B-007		A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material _____ is (or) is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1.		This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.	
Record Waste Description Inadequate		NA		590. LBS; 7.5 FT3		B-008		B. TITLE: Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in Envirocare of Utah, Inc.		DATE 12/13/01	
Contamination or Leakage Detected		NA		560. LBS; 7.5 FT3		B-010		C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST) are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license.		DATE 12/13/01	
Unexpected Exposure Rates Detected		NA		560. LBS; 7.5 FT3		B-010		D. INDEMNIFICATION: Generator agrees to indemnify Envirocare of Utah, Inc., its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST), or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.		DATE 12/13/01	
Labels, Markings, etc. Inadequate		NA		560. LBS; 7.5 FT3		B-010				DATE 12/13/01	
Container Integrity Inadequate		NA		560. LBS; 7.5 FT3		B-010				DATE 12/13/01	
Other		NA		560. LBS; 7.5 FT3		B-010				DATE 12/13/01	
No Violations Detected on this Shipment.		NA		560. LBS; 7.5 FT3		B-010				DATE 12/13/01	

FORM 540A

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST  
SHIPPING PAPER (CONTINUATION)**

Envirocare of Utah, Inc.

8. MANIFEST NUMBER  
(Use this number on all continuation  
pages)  
0674-04-036

PAGE 2 OF 4 PAGES

11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)	12. DOT LABEL "RADIOACTIVE"	13. TRANSPORT INDEX	14. PHYSICAL AND CHEMICAL FORM	15. INDIVIDUAL RADIONUCLIDES				16. TOTAL PACKAGE ACTIVITY MBq mCi		17. LSA/SCO CLASS	18. TOTAL WEIGHT OR VOLUME (Use appropriate units)	19. IDENTIFICATION NUMBER OF PACKAGE
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	7.9365E-01	2.1450E-02	NA	570. LBS; 7.5 FT3	B-011
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid / oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	7.9365E-01	2.1450E-02	NA	570. LBS; 7.5 FT3	B-012
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	8.0856E-01	2.1853E-02	NA	580. LBS; 7.5 FT3	B-013
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	8.3846E-01	2.2661E-02	NA	600. LBS; 7.5 FT3	B-014
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid / oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	8.3061E-01	2.2449E-02	NA	580. LBS; 7.5 FT3	B-015
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	7.7830E-01	2.1035E-02	NA	550. LBS; 7.5 FT3	B-016
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.2236E+00	3.3070E-02	NA	570. LBS; 7.5 FT3	B-017

FORM 540A (10-95)

FORM 540A

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST  
SHIPPING PAPER (CONTINUATION)**

Envirocare of Utah, Inc.

8. MANIFEST NUMBER  
(Use this number on all continuation  
pages)  
0674-04-036

PAGE 3 OF 4 PAGES

11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)	12. DOT LABEL "RADIOACTIVE"	13. TRANSPORT INDEX	14. PHYSICAL AND CHEMICAL FORM	15. INDIVIDUAL RADIONUCLIDES				16. TOTAL PACKAGE ACTIVITY MBq mCi		17. LSA/SCO CLASS	18. TOTAL WEIGHT OR VOLUME (Use appropriate units)	19. IDENTIFICATION NUMBER OF PACKAGE
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.1813E+00	3.1928E-02	NA	650. LBS; 7.5 FT3	B-019
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	NA	Solid <del>oxide</del>	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.1812E+00	3.1925E-02	NA	550. LBS; 7.5 FT3	B-020
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.3098E+00	3.5401E-02	NA	610. LBS; 7.5 FT3	B-025
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.3098E+00	3.5401E-02	NA	610. LBS; 7.5 FT3	B-026
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.1812E+00	3.1925E-02	NA	550. LBS; 7.5 FT3	B-027
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.2455E+00	3.3663E-02	NA	580. LBS; 7.5 FT3	B-028
												Calig / DOT 17H

FORM 540A (10-96)

FORM 540A

Envirocare of Utah, Inc.

 8 MANIFEST NUMBER  
 (Use this number on all continuation  
 pages)  
 0674-04-036

 UNIFORM LOW-LEVEL RADIOACTIVE  
 WASTE MANIFEST  
 SHIPPING PAPER (CONTINUATION)

PAGE 4 OF 4 PAGES

11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)	12. DOT LABEL "RADIOACTIVE"	13. TRANSPORT INDEX	14. PHYSICAL AND CHEMICAL FORM	15. INDIVIDUAL RADIONUCLIDES				16. TOTAL PACKAGE ACTIVITY MBq mCi		17. ICA/SCO CLASS	18. TOTAL WEIGHT OR VOLUME (Use appropriate units)	19. IDENTIFICATION NUMBER OF PACKAGE
Fissile excepted, Radioactive material, excepted package- limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.2847E+00	3.4722E-02	NA	600. LBS; 7.5 FT3	B-029
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package- limited quantity of material, 7, UN2910	NA	na	Concr./oxide metal/DAW	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.3560E+01	3.6650E-01	NA	2987. LBS; 100. FT3	B-031
												B-25 metal box
Fissile excepted, Radioactive material, excepted package- limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.5288E+00	4.1319E-02	NA	712. LBS; 7.5 FT3	B-032
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package- limited quantity of material, 7, UN2910	NA	na	Concr./ oxide metal	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.3560E+01	3.6650E-01	NA	3200. LBS; 100. FT3	B-033
												B-25 metal box
Fissile excepted, Radioactive material, excepted package- limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.4604E+00	3.9469E-02	NA	680. LBS; 7.5 FT3	B-157
												Calig / DOT 17H
Fissile excepted, Radioactive material, excepted package- limited quantity of material, 7, UN2910	NA	na	Solid /oxide	Ra-226 U-235	Th-230 U-238	Th-232	U-234	1.3599E+00	3.6755E-02	NA	640. LBS; 7.5 FT3	B-168
												Calig / DOT 17H

FORM 540A (10-96)

FORM 641		Envirocare of Utah, Inc.		1. MANIFEST TOTALS				2. MANIFEST NUMBER	
<b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST</b> CONTAINER AND WASTE DESCRIPTION Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste				NUMBER OF PACKAGES/ DISPOSAL CONTAINERS	NET WASTE VOLUME	NET WASTE WEIGHT	SPECIAL NUCLEAR MATERIAL (grams)		
				22	m3 9.9114 ft3 350.0000	kg 8173.2814 ton 9.0095	U-233	U-235	Pu
				ACTIVITY			3. PAGE 1 OF 8 PAGE(S)		
				ALL NUCLIDES	TRITIUM	C-14	Tc-99	I-129	4. SHIPPER NAME
				MBq 4.7671E+01	NP	NP	NP	NP	Westinghouse Electric Compan
				mCi 1.2884E+00	NP	NP	NP	NP	SHIPMENT ID NUMBER
				SOURCE			(kgs) 1.1073E+01	NA	
							(tons) 1.2206E-02		

DISPOSAL CONTAINER DESCRIPTION				WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C		
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR / ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (cpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (ft3)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION	15. RADIOLOGICAL DESCRIPTION	15. RADIOLOGICAL DESCRIPTION				
					ALPHA	BETA-GAMMA						INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT				
B-007/37-000497-15(A)	4-B-OP CaIlg / DOT 17H	0.2124	263.0836	2.0000E-04	3.3400E-08	2.5050E-08	29	0.2124	89-H-300 Soil Moist	NONE/NP	NP	RADIONUCLIDES				
		7.5000	0.2900	2.0000E-02	2.0000E+02	1.5000E+02						7.5000	Ra-226 [7.0400E-09 kgs]	4.55624E-01	5.7350E-03	1.5500E-04
												Th-230 [4.02713E-01]	(5.0690E-03)	(1.3700E-04)	AS	
												Th-232 [2.3500E-03 kgs]	3.69791E+00	(4.6546E-02)	(1.2580E-03)	
												U-234 [3.0000E-03 g]	4.79140E+01	(6.0310E-01)	(1.6300E-02)	
												U-235 [2.0000E+00 g]	1.20814E+01	(1.5207E-01)	(4.1100E-03)	
												U-238 [3.7000E+01 g]	3.73318E+00	4.6990E-02	1.2700E-03	
												Subtotal		2.0480E-01	5.5350E-03	
												Total		2.0480E-01	5.5350E-03	
												SNM: [2.0000E+00 g]				
												Source: [2.3500E-03 kgs]				
B-008/37-000497-15(A)	4-B-OP CaIlg / DOT 17H	0.2124	267.6195	2.0000E-04	3.3400E-06	2.5050E-06	29	0.2124	89-H-300 Soil Moist	NONE/NP	NP	RADIONUCLIDES				
		7.5000	0.2950	2.0000E-02	2.0000E+02	1.5000E+02						7.5000	Ra-226 [7.0400E-09 kgs]	3.48332E-01	(5.8460E-03)	(1.5800E-04)
												Th-230 [4.02713E-01]	(5.0690E-05)	(1.3700E-06)	AS	
												Th-232 [2.3500E-03 kgs]	5.71000E-01	(9.5830E-03)	(2.5900E-04)	
												U-234 [3.0000E-03 g]	3.61560E+01	6.0680E-01	1.6400E-02	
												U-235 [2.0000E+00 g]	9.08309E+00	1.5244E-01	4.1200E-03	
												U-238 [3.7000E+01 g]	2.79989E+00	4.6990E-02	1.2700E-03	
												Subtotal		8.0623E-01	2.1790E-02	
												Total		8.0623E-01	2.1790E-02	
												SNM: [2.0000E+00 g]				
												Source: [2.3500E-03 kgs]				

NOTE 1: Container Description Codes. For containers/waste requiring disposal in approved structural over-packs the numerical code must be followed by "-OP."

1. Wooden Box or Crate	9. Demineralizer
2. Metal Box	10. Gas Cylinder
3. Plastic Drum or Pail	11. Bulk, Unpackaged Waste
4. Metal Drum or Pail	12. Unpackaged Components
5. Metal Tank or Liner	13. High Integrity Container
6. Concrete Tank or Liner	19. Other Describe in Item 6, or additional page.
7. Polyethylene Tank or Liner	
8. Fiberglass Tank or Liner	

Note 1A: Bulk Packaging Description Codes (Choose one code as may be applicable.)

A Gondola
B Intermediate
C End-dump
D Roll-off
E Seavan

NOTE 2: Waste Descriptor Codes. (Choose up to three which predominate by volume.)

20. Charcoal	29. Demolition Rubble	38. Evaporator Bottoms/Sludges/ Concentrates
21. Incinerator Ash	30. Cation Ion-exchange Media	39. Compactable Trash
22. Soil	31. Anion Ion-exchange Media	40. Noncompactable Trash
23. Gas	32. Mixed Bed Ion-exchange Media	41. Animal Carcass
24. Oil	33. Contaminated Equipment	42. Biological Material (except animal carcass)
25. Aqueous Liquid	34. Organic Liquid (except oil)	43. Activated Material
26. Filter Media	35. Glassware or Labware	44. Other Describe in item 11, or additional page
27. Mechanical Filter	36. Sealed Source/Device	
28. EPA or State Hazardous	37. Paint or Plating	

Note 2A: Specific Waste Descriptions (Choose all applicable codes.)

G Dewatered
H Solid
I Combustible
J Non-combustible
K Air Filtration Filters
L Asbestos

Note 3: Solidification and Stabilization Media Codes. (Choose up to three which predominate by volume.) For media meeting disposal site structural stability requirements, the numerical code must be followed by "-S" and the media vendor and brand name must also be identified in item 13. Code 100-NONE REQUIRED

90. Cement	94. Vinyl Ester Styrene
91. Concrete	95. Other Describe in item 13, or additional page
92. Bitumen	96. Other Describe in item 13, or additional page
93. Vinyl Chloride	100. None Required.

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-036

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**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION			CONTAINER AND WASTE DESCRIPTION (CONTINUATION)				WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER														
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (lit)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (μrem/hr)	10. SURFACE CONTAMINATION (dpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION				16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C				
					ALPHA	BETA-GAMMA		WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT												
RADIONUCLIDES																					
pCi/gm																					
MBq																					
mCi																					
B-01037-000497-15(A)	4-B-OP Calg / DOT 17H	0.2124	254.0117	2.0000E-04	3.3400E-06	2.5050E-06	29	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-228	4.49745E-01	5.6610E-03	(1.6300E-04)	AS					
		7.5000	0.2800	2.0000E-02	2.0000E+02	1.5000E+02		7.5000				Th-230 [7.0400E-09 g]	4.02713E-01	5.0690E-03	(1.3700E-04)		Th-232 [2.3500E-03 g]	7.61334E-01	9.5830E-03	(2.5900E-04)	U-234 [3.0000E-03 g]
												U-238 [3.6000E+01 g]	3.61560E+00	4.5510E-02	1.2300E-03						
												Subtotal		7.7330E-01	2.0900E-02						
												Total		7.7330E-01	2.0900E-02						
												SNM: [2.0000E+00 g]									
B-01137-000497-15(A)	4-B-OP Calg / DOT 17H	0.2124	258.5477	2.0000E-04	3.3400E-06	2.5050E-06	29-H	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	3.48332E-01	(5.8460E-03)	(1.5800E-04)	AS					
		7.5000	0.2850	2.0000E-02	2.0000E+02	1.5000E+02		7.5000				Th-230 [4.7800E-11 kgs]	4.03448E-04	(6.7710E-06)	(1.8300E-07)		Th-232 [3.85811E-03 g]	6.4750E-05	(1.7500E-06)	U-234 [3.0000E-03 g]	3.52741E+01
												U-238 [3.7000E+01 g]	2.75579E+00	4.6250E-02	1.2500E-03						
												Subtotal		7.8773E-01	2.1290E-02						
												Total		7.8773E-01	2.1290E-02						
												SNM: [2.0000E+00 g]									
												Source: [4.7800E-11 kgs]									
B-01237-000497-15(A)	4-B-OP Calg / DOT 17H	0.2124	258.5477	2.0000E-04	3.3400E-06	2.5050E-06	29-H	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	3.48332E-01	(5.8460E-03)	(1.5800E-04)	AS					
		7.5000	0.2850	2.0000E-02	2.0000E+02	1.5000E+02		7.5000				Th-230 [4.7800E-11 kgs]	4.03448E-04	(6.7710E-06)	(1.8300E-07)		Th-232 [3.85811E-03 g]	6.4750E-05	(1.7500E-06)	U-234 [3.0000E-03 g]	3.52741E+01
												U-238 [3.7000E+01 g]	2.75579E+00	4.6250E-02	1.2500E-03						
												Subtotal		7.8773E-01	2.1290E-02						
												Total		7.8773E-01	2.1290E-02						
												SNM: [2.0000E+00 g]									
												Source: [4.7800E-11 kgs]									

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-036

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**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION			CONTAINER AND WASTE DESCRIPTION (CONTINUATION)						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER					16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C					
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (R3)	8. WASTE AND CONTAINER WEIGHT (kg) (IC)	9. SURFACE RADIATION LEVEL (mSv/hr) (mm/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. PHYSICAL DESCRIPTION		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION	WEIGHT % CHELATING AGENT (IF > 0.1%)	15. RADIOLOGICAL DESCRIPTION						
					ALPHA	BETA-GAMMA		WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	APPROXIMATE				INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT						
													RADIONUCLIDES						
													pCi/gm	MBq	mCi				
B-013/37-000497-15(A)	4-B-OP CaIig / DOT 17H	0.2124	263.0836	2.0000E-04	3.3400E-06	2.5050E-06	29	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	4.64443E-01	5.8460E-03	1.5800E-04	AS			
		7.5000	0.2900	2.0000E-02	2.0000E+02	1.5000E+02						7.5000	Th-230	[7.0400E-09 kgs]	4.02713E-01		[5.0690E-03]	[1.3700E-04]	
													Th-232	[2.3500E-03 kgs]	7.58394E-01	[9.5460E-03]	[2.5800E-04]		
													U-234	[3.0000E-03 g]	4.70322E+01	5.9200E-01	1.6000E-02		
													U-235	[2.0000E+00 g]	1.19050E+01	1.4985E-01	4.0500E-03		
													U-238	[3.7000E+01 g]	3.67439E+00	4.6260E-02	1.2600E-03		
													Subtotal		7.9395E-01	2.1458E-02			
													Total		7.9395E-01	2.1458E-02			
													SNM:	[2.0000E+00 g]					
													Source:	[2.3500E-03 kgs]					
B-014/37-000497-15(A)	4-B-OP CaIig / DOT 17H	0.2124	272.1554	2.0000E-04	3.3400E-06	2.6050E-06	29	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	3.59355E-01	[6.0310E-03]	[1.6300E-04]	AS			
		7.5000	0.3000	2.0000E-02	2.0000E+02	1.5000E+02						7.5000	Th-230	4.03448E-04	[6.7710E-06]		[1.8300E-07]		
													Th-232	[7.0400E-09 kgs]	3.04240E-01	[5.1060E-03]	[1.3800E-04]		
													U-234	[3.0000E-03 g]	3.70379E+01	6.2160E-01	1.6800E-02		
													U-235	[2.0000E+00 g]	9.36970E+00	1.5725E-01	4.2500E-03		
													U-238	[3.9000E+01 g]	2.88807E+00	4.8470E-02	1.3100E-03		
													Subtotal		8.2732E-01	2.2360E-02			
													Total		8.2732E-01	2.2360E-02			
													SNM:	[2.0000E+00 g]					
													Source:	[7.0400E-09 kgs]					
B-015/37-000497-15(A)	4-B-OP CaIig / DOT 17H	0.2124	263.0836	2.0000E-04	3.3400E-06	2.5050E-06	29	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	4.49745E-01	[5.6610E-03]	[1.5300E-04]	AS			
		7.5000	0.2900	2.0000E-02	2.0000E+02	1.5000E+02						7.5000	Th-230	[7.0400E-09 kgs]	4.64443E-01		[5.8460E-03]	[1.5800E-04]	
													Th-232	[2.3500E-03 kgs]	7.58394E-01	[9.5460E-03]	[2.5800E-04]		
													U-234	[3.0000E-03 g]	4.85020E+01	6.1050E-01	1.6500E-02		
													U-235	[2.0000E+00 g]	1.20814E+01	1.5207E-01	4.1100E-03		
													U-238	[3.7000E+01 g]	3.73318E+00	4.6990E-02	1.2700E-03		
													Subtotal		8.0956E-01	2.1880E-02			
													Total		8.0956E-01	2.1880E-02			
													SNM:	[2.0000E+00 g]					
													Source:	[2.3500E-03 kgs]					

FORM 541A

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-036

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**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION			CONTAINER AND WASTE DESCRIPTION (CONTINUATION)				WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (lit)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT (F>0.1%)	15. RADIOLOGICAL DESCRIPTION				
					ALPHA	BETA-GAMMA		INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT									
													RADIONUCLIDES				
													pCi/gm	MBq	mCi		
B-016/37-000497-15(A)	4-B-OP Calig / DOT 17H	0.2124	249.4758	2.0000E-04	3.3400E-06	2.5050E-06	29	0.2124	7.5000	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	3.30695E-01	5.5500E-03	1.5000E-04	AS
		7.5000	0.2750	2.0000E-02	2.0000E+02	1.5000E+02		Th-230 [6.6700E-09 kgs]					2.85602E-01	(4.8100E-03)	(1.3000E-04)	Th-232 [2.2200E-03 kgs]	
													U-234 [3.0000E-03 g]	3.39514E+01	5.6980E-01	1.5400E-02	
													U-235 [2.0000E+00 g]	8.59807E+00	1.4430E-01	3.9000E-03	
													U-238 [3.5000E+01 g]	2.66761E+00	4.4770E-02	1.2100E-03	
													Subtotal		7.7349E-01	2.0905E-02	
													Total		7.7349E-01	2.0905E-02	
													SNM: [2.0000E+00 g]				
													Source: [2.2200E-03 kgs]				
B-017/37-000497-15(A)	4-B-OP Calig / DOT 17H	0.2124	258.5477	2.0000E-04	3.3400E-06	2.5050E-06	29	0.2124	7.5000	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	3.41718E-01	5.7350E-03	1.5500E-04	AS
		7.5000	0.2850	2.0000E-02	2.0000E+02	1.5000E+02		Th-230 [6.6700E-09 kgs]					2.85602E-01	(4.8100E-03)	(1.3000E-04)	Th-232 [2.2200E-03 kgs]	
													U-234 [3.0000E-03 g]	3.52741E+01	5.9200E-01	1.6000E-02	
													U-235 [2.0000E+00 g]	8.90672E+00	1.4948E-01	4.0400E-03	
													U-238 [3.7000E+01 g]	2.75579E+01	4.6250E-01	1.2500E-02	
													Subtotal		1.2097E+00	3.2695E-02	
													Total		1.2097E+00	3.2695E-02	
													SNM: [2.0000E+00 g]				
													Source: [6.6700E-09 kgs]				
B-019/37-000497-15(A)	4-B-OP Calig / DOT 17H	0.2124	249.4758	2.0000E-04	3.3400E-06	2.5050E-06	29	0.2124	7.5000	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	4.49745E-01	(5.6610E-03)	(1.5300E-04)	AS
		7.5000	0.2750	2.0000E-02	2.0000E+02	1.5000E+02		Th-230 [6.6700E-09 kgs]					3.32137E-01	(4.8100E-03)	(1.3000E-04)	Th-232 [2.2200E-03 kgs]	
													U-234 [3.0000E-03 g]	4.52685E+01	5.6980E-01	1.5400E-02	
													U-235 [2.0000E+00 g]	1.14641E+01	1.4430E-01	3.9000E-03	
													U-238 [3.5000E+01 g]	3.55681E+01	4.4770E-01	1.2100E-02	
													Subtotal		1.1618E+00	3.1400E-02	
													Total		1.1618E+00	3.1400E-02	
													SNM: [2.0000E+00 g]				
													Source: [2.2200E-03 kgs]				

FORM 541A (10-96)



**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-036

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DISPOSAL CONTAINER DESCRIPTION			CONTAINER AND WASTE DESCRIPTION (CONTINUATION)				WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m <sup>3</sup> ) (R3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL mSv/hr r/m/hr	10. SURFACE CONTAMINATION MBq/100 cm <sup>2</sup> dpm/100 cm <sup>2</sup>		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. PHYSICAL DESCRIPTION		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION CHEMICAL FORM / CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	15. RADIOLOGICAL DESCRIPTION INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT				
					ALPHA	BETA-GAMMA		12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m <sup>3</sup> ) (FT <sup>3</sup> )	13.				RADIONUCLIDES				
													pCi/gm	MBq	mCi		
B-020/37-000497-15(A)	4-B-OP CaRg / DOT 17H	0.2124	249.4758	2.0000E-04	0.0000E+00	0.0000E+00	29	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	4.40927E-01	5.5500E-03	1.5000E-04	AS	
		7.6000	0.2750	2.0000E-02	0.0000E+00	0.0000E+00						7.5000	Th-230 [6.6700E-09 kgs]	3.82137E-01	(4.9100E-03)		(1.3000E-04)
												U-234 [3.0000E-03 g]	4.52685E+01	5.6980E-01	1.5400E-02		
												U-235 [2.0000E+00 g]	1.14641E+01	1.4430E-01	3.9000E-03		
												U-238 [3.5000E+01 g]	3.55681E+01	4.4770E-01	1.2100E-02		
												Subtotal		1.1674E+00	3.1550E-02		
												Total		1.1674E+00	3.1550E-02		
												SNM: [2.0000E+00 g]					
												Source: [2.2300E-03 kgS]					
B-025/37-000497-15(A)	4-B-OP CaRg / DOT 17H	0.2124	276.6914	2.0000E-04	3.3400E-06	2.5050E-06	29	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	4.87959E-01	6.1420E-03	1.6600E-04	AS	
		7.6000	0.3050	2.0000E-02	2.0000E+02	1.5000E+02						7.5000	Th-230 [4.7800E-11 kgs]	4.23290E-01	(5.3280E-03)		(1.4400E-04)
												U-234 [3.0000E-03 g]	5.02657E+01	6.3270E-01	1.7100E-02		
												U-235 [2.0000E+00 g]	1.26987E+01	1.5984E-01	4.3200E-03		
												U-238 [3.9000E+01 g]	3.93895E+01	4.9580E-01	1.3400E-02		
												Subtotal		1.2883E+00	3.4820E-02		
												Total		1.2883E+00	3.4820E-02		
												SNM: [2.0000E+00 g]					
												Source: [2.4700E-03 kgS]					
B-026/37-000497-15(A)	4-B-OP CaRg / DOT 17H	0.2124	276.6914	2.0000E-04	0.0000E+00	0.0000E+00	29	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	3.65969E-01	6.1420E-03	1.6600E-04	AS	
		7.6000	0.3050	2.0000E-02	0.0000E+00	0.0000E+00						7.5000	Th-230 [7.4000E-09 kgs]	3.17467E-01	5.3280E-03		1.4400E-04
												U-234 [3.0000E-03 g]	3.76992E+01	6.3270E-01	1.7100E-02		
												U-235 [2.0000E+00 g]	9.52402E+00	1.5984E-01	4.3200E-03		
												U-238 [3.9000E+01 g]	2.95421E+01	4.9580E-01	1.3400E-02		
												Subtotal		1.3098E+00	3.5401E-02		
												Total		1.3098E+00	3.5401E-02		
												SNM: [2.0000E+00 g]					
												Source: [2.4700E-03 kgS]					

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-036

3. PAGE 6 OF 8 PAGE(S)

**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION			CONTAINER AND WASTE DESCRIPTION (CONTINUATION)						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME <u>(m3)</u> (lit)	8. WASTE AND CONTAINER WEIGHT <u>(kg)</u> (ton)	9. SURFACE RADIATION LEVEL <u>mSv/hr</u> <u>µrem/hr</u>	10. SURFACE CONTAMINATION <u>MBq/100 cm2</u> <u>dpm/100 cm2</u>		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER <u>(m3)</u> (FT3)		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION CHEMICAL FORM / CHELATING AGENT		WEIGHT % CHELATING AGENT IF > 0.1%	15. RADIOLOGICAL DESCRIPTION INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT					
					ALPHA	BETA-GAMMA		RADIONUCLIDES			pCi/gm	MBq		mCi					
B-027/37-000497-15(A)	4-B-OP Callig / DOT 17H	0.2124	249.4758	2.0000E-04	0.0000E+00	0.0000E+00	29	0.2124	7.5000	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	3.30695E-01	5.5500E-03	1.5000E-04	AS		
								Th-230 [6.6700E-09 kgs]					2.86602E-01	4.8100E-03	1.3000E-04				
		7.5000	0.2750	2.0000E-02	0.0000E+00	0.0000E+00							Th-232 [2.2200E-03 kgs]	5.40135E-01	9.0650E-03	2.4500E-04			
													U-234 [3.0000E-03 g]	3.39514E+01	5.6980E-01	1.5400E-02			
													U-235 [2.0000E+00 g]	8.59807E+00	1.4430E-01	3.9000E-03			
													U-238 [3.5000E+01 g]	2.66761E+01	4.4770E-01	1.2100E-02			
													Subtotal		1.1812E+00	3.1925E-02			
													Total		1.1812E+00	3.1925E-02			
													SNM: [2.0000E+00 g]						
													Source: [2.2200E-03 kgs]						
B-028/37-000497-15(A)	4-B-OP Callig / DOT 17H	0.2124	263.0836	2.0000E-04	0.0000E+00	0.0000E+00	29	0.2124	7.5000	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	3.48332E-01	5.8460E-03	1.5800E-04	AS		
								Th-230 [7.0400E-09 kgs]					3.02035E-01	5.0690E-03	1.3700E-04				
		7.5000	0.2900	2.0000E-02	0.0000E+00	0.0000E+00							Th-232 [2.3500E+00 kgs]	5.68796E-01	9.5460E-03	2.5800E-04			
													U-234 [3.0000E-03 g]	3.59355E+01	6.0310E-01	1.6300E-02			
													U-235 [2.0000E+00 g]	9.06105E+00	1.5207E-01	4.1100E-03			
													U-238 [3.7000E+01 g]	2.79989E+01	4.6990E-01	1.2700E-02			
													Subtotal		1.2455E+00	3.3663E-02			
													Total		1.2455E+00	3.3663E-02			
													SNM: [2.0000E+00 g]						
													Source: [2.3500E+00 kgs]						
B-029/37-000497-15(A)	4-B Callig / DOT 17H	0.2124	272.1554	2.0000E-04	3.3400E-06	2.5050E-06	29	0.2124	7.5000	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	4.79140E-01	6.0310E-03	1.6300E-04	AS		
								Th-230 [7.2800E-09 kgs]					4.17411E-01	5.2540E-03	1.4200E-04				
		7.5000	0.3000	2.0000E-02	2.0000E+02	1.5000E+02							Th-232 [2.4300E-03 kgs]	7.84850E-01	9.8790E-03	2.6700E-04			
													U-234 [3.0000E-03 g]	4.93838E+01	6.2160E-01	1.6800E-02			
													U-235 [2.0000E+00 g]	1.24929E+01	1.5725E-01	4.2500E-03			
													U-238 [3.9000E+01 g]	3.85076E+01	4.8470E-01	1.3100E-02			
													Subtotal		1.2696E+00	3.4313E-02			
													Total		1.2696E+00	3.4313E-02			
													SNM: [2.0000E+00 g]						
													Source: [2.4300E-03 kgs]						

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0674-04-036

3. PAGE 7 OF 8 PAGE(S)

**CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION				WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C			
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (lbm)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION				
					ALPHA	BETA-GAMMA		WEIGHT % CHELATING AGENT (F>0.1%)	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL, OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT								
													RADIONUCLIDES	pCi/gm	MBq	mCi	
B-031/37-000497-15(A)	2-B B-25 metal box	2.8317	1354.8806	2.0000E-04	3.3400E-06	2.5050E-06	29-H	2.8317	100	oxide/NP	NP	Ra-226	1.19785E-01	6.0310E-03	1.6300E-04	AS	
		100.0000	1.4935	2.0000E-02	2.0000E+02	1.5000E+02						Th-230	4.7800E-11 kgs	5.9819E-01	3.0118E-02		8.1400E-04
								100.0000				Th-230	1.2100E-02 kgs	5.9819E-01	3.0118E-02	8.1400E-04	
												Th-232	2.0000E-06 kgs	1.28604E-03	6.4750E-05	1.7500E-06	
												Th-232	1.2100E-02 kgs	6.18089E-01	2.6085E-02	7.0500E-04	
												U-234	1.4000E-02 g	6.15828E+01	3.1006E+00	8.3800E-02	
												U-234	2.5000E-02 g	1.16111E+02	5.8460E+00	1.5800E-01	
												U-235	1.0000E+01 g	1.55794E+01	7.8440E-01	2.1200E-02	
												U-235	5.0000E+00 g	8.59807E+00	4.3290E-01	1.1700E-02	
												U-238	1.9200E+02 g	4.80610E+01	2.4198E+00	6.5400E-02	
												U-238	7.0000E+01	1.76636E+01	8.8430E-01	2.3900E-02	
												Subtotal			1.3474E+01	3.6416E-01	
												Total SNM:	1.5000E+01 g				
												Source:	2.4202E-02 kgs				
														1.3474E+01		3.6416E-01	
B-032/37-000497-15(A)	4-B-OP Calif / DOT 17H	0.2124	322.9578	2.0000E-04	0.0000E+00	0.0000E+00	29	0.2124	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	4.27699E-01	7.1780E-03	1.9400E-04	AS	
		7.5000	0.3560	2.0000E-02	0.0000E+00	0.0000E+00		7.5000				Th-230	8.6410E+00 kgs	3.70379E-01	6.2160E-03	1.6800E-04	
												Th-232	2.8800E-03 kgs	6.98869E-01	1.1729E-02	3.1700E-04	
												U-234	3.0000E-03 g	4.40927E+01	7.4000E-01	2.0000E-02	
												U-235	2.0000E+00 g	1.11114E+01	1.8648E-01	5.0400E-03	
												U-238	4.6000E+01 g	3.43923E+01	5.7720E-01	1.5600E-02	
												Subtotal			1.5288E+00	4.1319E-02	
												Total			1.5288E+00	4.1319E-02	
												SNM:	2.0000E+00 g				
												Source:	8.6439E+00 kgs				
B-033/37-000497-15(A)	2-B B-25 metal box	2.8317	1451.4957	2.0000E-04	3.3400E-06	2.5050E-06	29-H	2.8317	89-H-300 Soil Moist	NONE/NP	NP	Ra-226	1.19785E-01	6.0310E-03	1.6300E-04	AS	
		100.0000	1.6000	2.0000E-02	2.0000E+02	1.5000E+02		100.0000				Ra-226	5.9819E-01	3.0118E-02	8.1400E-04		
												Th-230	4.7800E-11 kgs	1.34483E-04	6.7710E-06	1.8300E-07	
												Th-230	1.2100E-02 kgs	5.9819E-01	3.0118E-02	8.1400E-04	
												Th-232	2.0000E-06 kgs	1.28604E-03	6.4750E-05	1.7500E-06	
												Th-232	1.2100E-02 kgs	6.18089E-01	2.6085E-02	7.0500E-04	
												U-234	1.4000E-02 g	6.15828E+01	3.1006E+00	8.3800E-02	
												U-234	2.5000E-02 g	1.16111E+02	5.8460E+00	1.5800E-01	
												U-235	1.0000E+01 g	1.55794E+01	7.8440E-01	2.1200E-02	
												U-235	5.0000E+00 g	8.59807E+00	4.3290E-01	1.1700E-02	

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

Envirocare of Utah, Inc.

2. MANIFEST NUMBER  
0874-04-036

3. PAGE 8 OF 8 PAGE(S)

DISPOSAL CONTAINER DESCRIPTION			CONTAINER AND WASTE DESCRIPTION (CONTINUATION)				WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER								16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C			
5. CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (l3)	8. WASTE AND CONTAINER WEIGHT (kg) (lbp)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION					
					ALPHA	BETA-GAMMA		CHEMICAL FORM	CHELATING AGENT		INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT							
												RADIONUCLIDES		pCi/gm		MBq	mCi	
													U-238	[1.9200E+02 g]	4.80610E+01	2.4198E+00	6.5400E-02	
													U-238	[7.0000E+01]	1.75636E+01	8.8430E-01	2.3900E-02	
													<b>Subtotal</b>			<b>1.3474E+01</b>	<b>3.6416E-01</b>	
													<b>Total</b>			<b>1.3474E+01</b>	<b>3.6416E-01</b>	
													<b>SNM:</b>	[1.5000E+01 g]				
													<b>Source:</b>	[2.4202E-02 kgs]				
B-157/37-000497-15(A)	4-B-OP Calig / DOT 17H	0.2124	308.4428	2.0000E-04	0.0000E+00	0.0000E+00	29	0.2124	89-H-300 Soil Moist	NONE/NP			Ra-226	[8.2500E-09 kgs]	5.43810E-01	6.8450E-03	1.8500E-04	AS
		7.5000	0.3400	2.0000E-02	0.0000E+00	0.0000E+00		7.5000					Th-230	[2.7500E-03 kgs]	4.73251E-01	(5.9570E-03)	(1.6100E-04)	
													Th-232	[3.0000E-03 g]	8.90672E-01	(1.1211E-02)	(3.0300E-04)	
													U-234	[2.0000E+00 g]	5.61447E+01	7.0670E-01	1.9100E-02	
													U-235	[2.0000E+00 g]	1.41684E+01	1.7834E-01	4.8200E-03	
													U-238	[4.4000E+01 g]	4.37987E+01	5.6130E-01	1.4900E-02	
													<b>Subtotal</b>			<b>1.4432E+00</b>	<b>3.9005E-02</b>	
													<b>Total</b>			<b>1.4432E+00</b>	<b>3.9005E-02</b>	
													<b>SNM:</b>	[2.0000E+00 g]				
													<b>Source:</b>	[2.7500E-03 kgs]				
B-168/37-000497-15(A)	4-B-OP Calig / DOT 17H	0.2124	290.2991	2.0000E-04	3.3400E-06	2.5050E-06	29	0.2124	89-H-300 Soil Moist	NONE/NP			Ra-226	[7.7700E-09 kgs]	5.11475E-01	(6.4380E-03)	(1.7400E-04)	AS
		7.5000	0.3200	2.0000E-02	2.0000E+02	1.5000E+02		7.5000					Th-230	[2.5900E-03 kgs]	4.43966E-01	6.5870E-03	1.5100E-04	
													Th-232	[3.0000E-03 g]	3.37761E-04	(1.0545E-05)	(2.8500E-07)	
													U-234	[2.0000E+00 g]	5.26173E+01	6.6230E-01	1.7900E-02	
													U-235	[2.0000E+00 g]	1.33160E+01	1.6761E-01	4.5300E-03	
													U-238	[4.1000E+01]	4.11532E+01	5.1800E-01	1.4000E-02	
													<b>Subtotal</b>			<b>1.3535E+00</b>	<b>3.6581E-02</b>	
													<b>Total</b>			<b>1.3535E+00</b>	<b>3.6581E-02</b>	
													<b>SNM:</b>	[2.0000E+00 g]				
													<b>Source:</b>	[2.5900E-03 kgs]				
Shipment Totals		9.9114	<del>308.4428</del> 5147.2 CD										<b>SNM:</b>	[7.0000E+01 g]		4.7671E+01	1.2884E+00	
		350.0000	0.0058	11.5									<b>Source:</b>	[1.1073E+01 kgs]				

**UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST  
ISOTOPES REPORT**

For Manifest # 0674-04-036  
Envirocare of Utah, Inc.

<u>Isotope</u>	Total Activity	
	(MBq)	(mCi)
Ra-226	1.8578E-01	5.0210E-03
Ra-228	5.6610E-03	1.5300E-04
Th-230	1.4416E-01	3.8963E-03
Th-232	2.5008E-01	6.7590E-03
U-234	3.0162E+01	8.1520E-01
U-235	5.5322E+00	1.4952E-01
U-238	1.2425E+01	3.3581E-01

## Charlie Fletcher

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**From:** Dobrushin, Irwin J. [dobrusij@westinghouse.com]  
**Sent:** Monday, December 17, 2001 6:44 PM  
**To:** 'cfletcher@envirocareutah.com'  
**Cc:** 'Lane McCleary'; Nardl, A. Joseph  
**Subject:** Manifest 0674-04-36

Mr. Fletcher,

This e-mail is pursuant to our telephone conversation of 12/17/01 concerning the discrepancy of the shipment weight as it appears on the Bill of Lading versus the weight of the shipment as it appears on the manifest. The manifest was prepared using LowTrack.

As I explained the weight on the Bill of Lading is the Gross Weight of the entire shipment, including the tare weights of the 6-B-25 boxes (~ 866 pounds per box total of ~5200 pounds). The total weight of the shipment was listed as 23,200 pounds (11.5 tons). The weight on the manifest for the material shipped for disposal (less the B-25 boxes) was 8173.3 kg/9.0095 tons (18019 lbs).

23,200 lbs - 5200 pounds = 18,000

I hope that this will satisfy your questions. If you require any additional information or clarification please contact me at your convenience.

**SNM Exemption Certification**  
(EC-0230-SNM)

7/12/99

Revision 1

The SNM Exemption Certification form must be completed and signed by each generator certifying to the following conditions. Please attach this form and all required information to the Radioactive Waste Profile Record (EC-0230). A completed and signed copy of this form must also accompany each waste manifest.

Generator No. / Waste Stream No. 0674-04-30 Manifest No. 0674-04-30

1. Please check one of the following that applies to the waste stream:

√	Uranium Enrichment Percent	Percent MgO by Weight	Percent Beryllium by Weight	U-235 Concentration (pCi/g)	Measurement Uncertainty* (pCi/g)
<input checked="" type="checkbox"/>	< 10 %	≤ 20 %	≤ 1 %	≤ 1900	≤ 285
<input type="checkbox"/>	≥ 10 %	≤ 20 %	≤ 1 %	≤ 1190	≤ 179
<input type="checkbox"/>	Unlimited	Unlimited	Unlimited	≤ 160	≤ 24
<input type="checkbox"/>	Unlimited	Sum of both ≤ 49 % of waste by weight		≤ 680	≤ 102
<input type="checkbox"/>	Not Applicable - Enriched U-235 is not present in the waste.				

\* A concentration value is used for the maximum measurement uncertainty limit rather than a percentage value to allow greater flexibility for generators with waste having very low SNM concentrations.

2. Please certify to the following requirements by checking each box:

- a. Concentrations of SNM in individual waste containers do not exceed the applicable values listed in the above table and SNM isotope concentrations listed in Table 1.
- b. The SNM is homogeneously distributed throughout the waste or the SNM concentrations in any contiguous mass of 145 kilograms (320 lbs) do not exceed on average the specified limits. (Based on process knowledge or testing).
- c. Except as allowed by Condition 1, the waste does not contain "pure forms" of chemicals containing carbon, fluorine, magnesium, or bismuth in bulk quantities (e.g., a pallet of drums, a B-25 box). By "pure forms," it is meant that mixtures of the above elements such as magnesium oxide, magnesium carbonate, magnesium fluoride, bismuth oxide, etc. do not contain other elements. (Based on process knowledge or testing).
- d. Except as allowed by Condition 1, the waste does not contain total quantities of beryllium, hydrogenous material enriched in deuterium, or graphite above one percent of the total weight of the waste. (Based on process knowledge, physical observations, or testing).
- e. Waste packages do not contain highly soluble forms of uranium greater than 350 grams of uranium-235 or 200 grams of uranium-233. If the waste contains mixtures of U-233 and U-235, the waste meets the sum of the fractions rule. Highly soluble forms of uranium include, but are not limited to: uranium sulfate, uranyl acetate, uranyl chloride, uranyl formate, uranyl fluoride, uranyl nitrate, uranyl potassium carbonate, and uranyl sulfate. (Based on process knowledge or testing).

Table 1. Maximum concentrations of SNM in individual waste containers (refer to above table for U-235 limits).

Radionuclide	Maximum Concentration (pCi/g)	Measurement Uncertainty (pCi/g)	Radionuclide	Maximum Concentration (pCi/g)	Measurement Uncertainty (pCi/g)
U-233	75,000	11,250	Pu-241	350,000	50,000
Pu-236	500	75	Pu-242	10,000	1,500
Pu-238	10,000	1,500	Pu-243	500	75
Pu-239	10,000	1,500	Pu-244	500	75
Pu-240	10,000	1,500			

### SNM Exemption Certification (EC-0230-SNM)

7/12/99

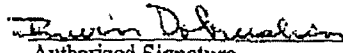
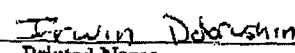
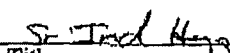
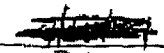
Revision 1

3. Please indicate that the following information is attached to the Radioactive Waste Profile Record by checking each box. (Note: Only the two-page SNM Exemption Certification form needs to be included with each manifest).

- a. Provide a description of how the waste was generated, list the physical forms in the waste, and identify the uranium chemical composition.
- b. Provide a general description of how the waste was characterized (including the volumetric extent of the waste, and the number, location, type, and results of any analytical testing), the range of SNM concentrations, and the analytical results with error values used to develop the concentration ranges.
- c. Describe the process by which the waste was generated showing that the spatial distribution of SNM must be uniform, or other information supporting spatial distribution.
- d. Describe the methods to be used to determine the concentrations on the manifests. These methods could include direct measurement and the use of scaling factors. Describe the uncertainty associated with sampling and testing used to obtain the manifest concentrations.

4. Generator's certification of compliance with the SNM exemption: I certify that the information provided on this form is complete, true, and correct and is based on process knowledge, physical observations, or approved laboratory testing. I also certify that sampling and radiological testing of waste containing SNM was performed in accordance with Envirocare's Radioactive Material License and that any supporting documentation and analytical results have been submitted to Envirocare of Utah, Inc.

10/1/01

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Authorized Signature                      Printed Name                      Title                      Date



<b>NRC FORM 540</b> (5-1998)		<b>U. S. NUCLEAR REGULATORY COMMISSION</b>		5. SHIPPER - NAME AND FACILITY <i>Bionomics, Inc</i> For: <i>Westinghouse Electric Co.</i> <i>Westinghouse Rd, RD4</i> <i>Blairsville, PA 15707</i>		SHIPPER I.D. NUMBER X COLLECTOR PROCESSOR		7. NRC FORM 540 AND 504A PAGE 1 OF <u>1</u> PAGE(S) NRC FORM 541 AND 541A <u>1</u> PAGE(S) NRC FORM 542 AND 542A <u>0</u> PAGE(S) ADDITIONAL INFORMATION <u>0</u> PAGE(S)		8. MANIFEST NUMBER (Use this number on all continuation pages) <div style="font-size: 2em; text-align: center;">99119</div>							
<b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER</b>		USER PERMIT NUMBER <i>I-TN006-L99</i>		SHIPMENT NUMBER		GENERATOR TYPE (Specify)		9. CONSIGNEE - Name and Facility Address <i>Diversified Scientific Services, Inc.</i> <i>657 Gallaher Rd</i> <i>Kingston, TN 37763</i>		CONTACT <i>Paul Hickman</i> TELEPHONE NUMBER (Include Area Code) <i>(423) 376-0054</i>							
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) <i>(423) 376-0193</i>		ORGANIZATION <i>Bionomics, Inc</i>		CONTACT <i>Paul Nipper</i>		TELEPHONE NUMBER (Include Area Code) <i>(423) 376-0053</i>		SIGNATURE - Authorized consignee acknowledging waste receipt		DATE							
2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST =====> <i>2</i>		8. CARRIER - Name and Address <i>T. A. C. TRANSPORT</i> <i>619 W. Rockwood Street</i> <i>Rockwood, TN 37854</i>		EPA I.D. NUMBER <i>TNR00003111</i>		SHIPPING DATE <i>11-09-99</i>		10. CERTIFICATION This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the applicable requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.							
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number =====>		EPA MANIFEST NUMBER <i>99119</i>		CONTACT <i>Don Howard</i>		TELEPHONE NUMBER (Include Area Code) <i>(423) 354-6927</i>		DATE <i>11-09-99</i>		AUTHORIZED SIGNATURE <i>Paul Nipper</i>		TITLE <i>QA Manager</i>		DATE <i>11-9-99</i>			
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)		12. DOT LABEL "RADIOACTIVE"		13. TRANSPORT INDEX		14. PHYSICAL AND CHEMICAL FORM		15. INDIVIDUAL RADIONUCLIDES		16. TOTAL PACKAGE ACTIVITY IN SI UNITS		17. LSA/SCO CLASS		18. TOTAL WEIGHT OR VOLUME (Use appropriate units)		19. IDENTIFICATION NUMBER OF PACKAGE	
<i>Waste Radioactive Material, C.S.A., N.O.S., 7 UN2912 (Fissile Excepted)</i>		<i>N/A</i>		<i>N/A</i>		<i>Liquids/ORGANIC Solvents</i>		<i>K40; Tl208; Pb212; Ra226; U238; U235</i>		<i>32.66924472 mBq</i>		<i>LSA II</i>		<i>0.31 m3</i>		<i>B-121</i>	
<i>Waste Radioactive Material, C.S.A., N.O.S., 7 UN2912 (Fissile Excepted)</i>		<i>N/A</i>		<i>N/A</i>		<i>Liquids/ORGANIC Solvents</i>		<i>K40; Tl208; Pb212; Ra226; U238; U235</i>		<i>32.66924472 mBq</i>		<i>LSA II</i>		<i>0.31 m3</i>		<i>B-077</i>	

FOR CONSIGNEE USE ONLY

<b>NRC FORM 641</b> (5-1988)  <b>U.S. NUCLEAR REGULATORY COMMISSION</b>  <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST</b>  <b>CONTAINER AND WASTE DESCRIPTION</b>  Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste	<b>1. MANIFEST TOTALS</b>						<b>2. MANIFEST NUMBER</b>  99119
	SPECIAL NUCLEAR MATERIAL (grams)						3. PAGE <u>1</u> OF <u>1</u> PAGE(S)
	NUMBER OF PACKAGES/ DISPOSAL CONTAINERS	NET WASTE VOLUME (m <sup>3</sup> )	NET WASTE WEIGHT (kg)	U-233	U-235	Pu	
	2	0.42	422	NP	139	NP	139
ACTIVITY (MBq)						SOURCE (kg)	
ALL NUCLIDES			TRITIUM	C-14	Tc-99	I-129	4. SHIPPER NAME <b>Bionomics, Inc.</b> <b>For: Westinghouse Electric Co.</b>  SHIPPER ID NUMBER
65.33848944			NP	NP	NP	NP	

DISPOSAL CONTAINER DESCRIPTION										WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
5. CONTAINER IDENTIFICATION NUMBER/ GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1)	7. VOLUME (m <sup>3</sup> )	8. WASTE AND CONTAINER WEIGHT (kg)	9. SURFACE RADIATION LEVEL		10. SURFACE CONTAMINATION MBq/100 cm <sup>2</sup>		11. PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION							
				(μSv/hr)	(mSv/hr)	ALPHA	BETA-GAMMA	11. WASTE DESCRIPTION (See Note 2)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER	13. SORBENT SOLIDIFICATION, STABILIZATION, MEDIA (See Note 3)	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT							
B-121	4P 3	0.31	211	0.0002	X	<3.34E-7	<1.67E-5	28	0.21 m <sup>3</sup>	100	Liquid/ORGANIC Solvents	N/A	K40 - 0.0366966 TL208 - 0.01213563 Pb212 - 0.02687865 RA226 - 0.00833721		AU					
													RA228 - 0.00891663 U238 - 27.0396 U235 - 5.53668	[2.1924 Kg] [69.5 gm]						
													Total - 32.66924472 [2.1924 Kg] [69.5 gm]							
B-077	4P 3	0.31	211	0.0002	X	<3.34E-7	<1.67E-5	28	0.21 m <sup>3</sup>	100	Liquid/ORGANIC Solvents	N/A	K40 - 0.0366966 TL208 - 0.01213563 Pb212 - 0.02687865 RA226 - 0.00833721		AU					
													RA228 - 0.00891663 U238 - 27.0396 U235 - 5.53668	[2.1924 Kg] [69.5 gm]						
													Total - 32.66924472 [2.1924 Kg] [69.5 gm]							

**NOTE 1: Container Description Codes.** For containers/waste requiring disposal in approved structural overpacks, the numerical code must be followed by "-OP."

1. Wooden Box or Crate	9. Demineralizer
2. Metal Box	10. Gas Cylinder
3. Plastic Drum or Pail	11. Bulk, Unpackaged Waste
4. Metal Drum or Pail	12. Unpackaged Components
5. Metal Tank or Liner	13. High Integrity Container
6. Concrete Tank or Liner	19. Other. Describe in item 6, or additional page
7. Polyethylene Tank or Liner	
8. Fiberglass Tank or Liner	

**Note 2: Waste Descriptor Codes.** (Choose up to three which predominate by volume.)

20. Charcoal	29. Demolition Rubble	38. Evaporator Bottoms/Sludges/Concentrates
21. Incinerator Ash	30. Cation Ion-exchange Media	39. Compactible Trash
22. Soil	31. Anion Ion-exchange Media	40. Noncompactible Trash
23. Gas	32. Mixed Bed Ion-exchange Media	41. Animal Carcass
24. Oil	33. Contaminated Equipment	42. Biological Material (except animal carcass)
25. Aqueous Liquid	34. Organic Liquid (except oil)	43. Activated Material
26. Filter Media	35. Glassware or Labware	59. Other. Describe in item 11, or additional page
27. Mechanical Filter	36. Sealed Source/Device	
28. EPA or State Hazardous	37. Paint or Plating	

**Note 3: For solidification media that meet disposal site structural stability requirements, the numerical code must be followed by "-S."** For all solidification media, the vendor (manufacturer) and brand name must also be identified in item 13. Code 100=NONE REQUIRED.

Sorption				Solidification			
60. Speedi Dri	64. Safe T Sorb	68. Chemsil 30	74. Petrosel	89. Other. Describe in item 13, or additional page	90. Cement	94. Vinyl Ester Styrene	
61. Celetom	65. Safe N Dri	70. Chemsil 50	75. Petrosel II		91. Concrete	99. Other. Describe in item 13, or additional page	
62. Floor Dry/ Superfine	66. Florco	71. Chemsil 3030	78. Aquaset		(encapsulation)		
	67. Florco X	72. Dicaperl HP200	77. Aquaset II		92. Bitumen		
63. Hi Dri	68. Solid A Sorb	73. Dicaperl HP500			93. Vinyl Chloride	100. None Required	