



Westinghouse  
Electric Corporation

Nuclear Manufacturing  
Divisions

RS 93-047

070-00997

Box 355  
Pittsburgh Pennsylvania 15230-0355

September 29, 1993

U. S. Nuclear Regulatory Commission, Region I  
475 Allendale Road  
King of Prussia, PA 19406-1415

Attention: Mr. C. T. Oberg

Subject: Ninth Submittal of Reports Concerning  
Termination of License Number SNM-951 (Docket 70-997)

The Westinghouse Electric Corporation hereby requests the termination of USNRC License Number SNM-951 (Docket 70-997) for the site located in Large, Pennsylvania. Enclosed are two reports which complete the information necessary to justify the termination of this license. Report #043 includes a listing of all the reports which have been submitted along with the required certification on the disposition of all licensed material.

If you have any questions concerning the attached information, please contact me at the above address or by telephone on 412-374-4652.

Very truly yours,

A. Nardi, Manager  
Regulatory Services

dh

Enclosures

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LICENSE TERMINATION REPORT

USNRC LICENSE NO. SNM-951

FINAL RADIOLOGICAL SURVEY OF THE SITE GROUNDS

(SURVEY SECTION 30)

JUNE 2, 1993

JULY 19, 1993 (ADDENDUM 1)

WESTINGHOUSE ELECTRIC CORPORATION

LARGE, PA

REPORT #039

(ADDENDUM 1)

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FINAL RADIOLOGICAL SURVEY OF THE SITE GROUNDS

(SURVEY SECTION 30)

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(i)

REPORT #039

(ADDENDUM 1)

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FINAL RADIOLOGICAL SURVEY  
OF THE SITE GROUNDS  
(Survey Section 30)

PURPOSE

The Westinghouse Electric Corporation is preparing to request the termination of USNRC License Number SNM-951 for the site located in Large, PA. This report is one of a series of reports that presents the necessary information to establish that the site meets all applicable regulatory requirements so that the license can be terminated by the United States Nuclear Regulatory Commission.

SCOPE

This addendum to Report #039 corrects several errors noted after issuance of the original report. Although these changes do not affect the conclusions reached in the original report, they have been included for completeness.

DISCUSSION

A number of errors have been noted in the original issuance of Report #039 which are corrected in the information incorporated in this addendum. The discussion below outlines the changes which have been made.

Each of the included pages is marked with a bar in the margin to identify the revisions made.

- 1) Table 1 - The "Factor for Comparison of Survey Data @ 95% Confidence" values in the statistical analysis at the end of the table were incorrect. The corrected values do not change the conclusions reached.
- 2) Table 2 - Same comment as above for Table 1.
- 3) Table 10 - The survey data collected at two locations was not included in the original table. This information has been added to the table. See the addendum to Appendix T for the additional Survey Data Sheets.
- 4) Table 11 - This table is a reprint of the table included in the original report. The only difference is that the "pen and ink" changes made to the original table have been incorporated in this revision.

REPORT #039

- 5) Appendix T - These added survey data sheets are for two survey points which were not included in the original report.

The principle change is the inclusion of survey information for two sample locations that were not included in the original information. These are unpaved locations for which soil samples were taken. The analytical information for the soil samples was included in the original report. This inadvertent omission resulted in a difference in the number of sample locations between Table 10 (32 sample locations) and Table 11 (34 sample locations) in the original report. The inclusion of this information does not change the discussion or conclusions reached in the original report.

#### CONCLUSION

The changes incorporated by this addendum do not alter the conclusions reached in the original report.

TABLE 1

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR EAST PARKING LOT (SECTION 30)

SAMPLE LOCATION DESCRIPTION (SEE FIGURE 5 FOR LOCATION)	LOCATION NUMBER	GAMMA SURVEY	GAMMA SURVEY	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
		@1 METER (microR/hr)	ON CONTACT CPM	MAXIMUM GAMMA AVG CPM	AVERAGE GAMMA AVG CPM	ALPHA (dpm/100cm <sup>2</sup> )	BETA (dpm/100cm <sup>2</sup> )	ALPHA (dpm/100cm <sup>2</sup> )	BETA (dpm/100cm <sup>2</sup> )
DIRT - SAMPLE #693	1	9.8	12065	13553	11000				
DIRT - SAMPLE #694	2	10.2	11882	14052	12200				
CLAY - SAMPLE #695	3	10.1	16033	16439	15000				
CLAY - SAMPLE #696	4	10.1	15432	17492	12000				
CONCRETE	5	9.9	9394	11279	9500		46.5		
DIRT - SAMPLE #699	6	10.5	12607	13606	11700				
DIRT - SAMPLE #698	7	10.2	10885	12821	11000				
DIRT - SAMPLE #697	8	10.1	10792	12527	10500				
CONCRETE	9	10.5	9699	11696	10700		37.2		
DIRT - SAMPLE #700	10	9.9	11509	14114	12000				
DIRT - SAMPLE #701	11	10.1	13818	14564	12200				
CONCRETE	12	10.5	9182	10715	9100		-49.6		
DIRT - SAMPLE #702	13	10.4	13386	14355	12500				
CONCRETE	14	10.7	9894	10506	9500		-15.5		
DIRT/CONCRETE - SAMPLE #703	15	10.5	10675	12073	11000		21.7		
DIRT/CONCRETE - SAMPLE #704	16	10.3	14385	14889	13000		-58.9		
CONCRETE	17	11.0	10469	13954	11100		40.3		
CONCRETE	18	10.2	9279	11812	10000		55.8		
CONCRETE	19	9.3	8308	10792	9600		-77.5		
CONCRETE	20	8.8	7996	9332	8900		0.0		
CONCRETE	21	9.2	7699	8379	7800		-71.3		

TABLE 1

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR EAST PARKING LOT (SECTION 30)

SAMPLE LOCATION DESCRIPTION (SEE FIGURE 5 FOR LOCATION)	LOCATION NUMBER	GAMMA SURVEY	GAMMA SURVEY	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
		@1 METER	ON CONTACT	MAXIMUM	AVERAGE	ALPHA	BETA	ALPHA	BETA
		(microR/hr)	CPM	GAMMA AVG CPM	GAMMA AVG CPM	(dpm/100cm <sup>2</sup> )	(dpm/100cm <sup>2</sup> )	(dpm/100cm <sup>2</sup> )	(dpm/100cm <sup>2</sup> )
CONCRETE	22	8.9	8755	8879	8500		-18.6		
CONCRETE	23	8.3	8472	9026	8200		6.2		

STATISTICAL  
ANALYSIS

NUMBER OF SAMPLES	23	23	23	23	13
MINIMUM	8.30	7699	8379	7800	-77.5
MAXIMUM	11.00	16033	17492	15000	55.8
AVERAGE	9.98	10983	12472	10739	-6.4
STANDARD DEVIATION	0.65	2337	2363	1697	44.6
LIMIT	15				5,000
FACTOR FOR COMPARISON OF SURVEY DATA @95% CONFIDENCE:					
DATA TEST PARAMETER	1.717				1.782
"NUMBER OF SAMPLES" FACTOR	10.21				15.60
DOES DATA SATISFY LIMIT CRITERIA?	7.77				112.25
WERE AN ADEQUATE NUMBER OF SAMPLES TAKEN?	YES				YES
	YES				YES

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TABLE 2  
ANALYTICAL RESULTS FOR SOIL SAMPLES TAKEN FROM EAST PARKING LOT

PROJ ID	SAMPLE IDENTIFICATION (SEE FIGURE 5 FOR LOCATION)	GAMMA SPEC.		ALPHA SPECTROMETRY RESULTS						IS U-TOTAL <30 pCi/gm	RATIO OF	
		LAB ID	U-235 pCi/gm	LAB ID	U-233 pCi/gm	U-234 pCi/gm	U-235 pCi/gm	U-238 pCi/gm	U-TOTAL pCi/gm		U-TOTAL TO U-235	%U-235
693	EAST PARKING LOT LOCATION #1	93- 656	<4.20E-01									
694	EAST PARKING LOT LOCATION #2	93- 657	5.19E-01									
695	EAST PARKING LOT LOCATION #3	93- 658	<3.90E-01									
696	EAST PARKING LOT LOCATION #4	93- 659	3.33E-01									
697	EAST PARKING LOT LOCATION #8	93- 660	3.05E-01									
698	EAST PARKING LOT LOCATION #7	93- 661	1.05E+00	93- 661	<3.40E-01	4.05E+01	5.46E+00	2.16E+00	4.85E+01	NO	8.9	28.19%
699	EAST PARKING LOT LOCATION #6	93- 662	4.18E-01									
700	EAST PARKING LOT LOCATION #10	93- 663	2.76E-01									
701	EAST PARKING LOT LOCATION #11	93- 664	<4.00E-01									
702	EAST PARKING LOT LOCATION #13	93- 665	<4.60E-01									
703	EAST PARKING LOT LOCATION #15	93- 666	1.75E-01									
704	EAST PARKING LOT LOCATION #16	93- 667	3.43E-01									
	COMPOSITE OF #693-704 EXCEPT #698	AVG.=	3.67E-01	93- 656	<1.70E-01	4.40E-01	<1.00E-01	4.70E-01	1.18E+00	YES	11.8	3.20%

STATISTICAL ANALYSIS:

NUMBER OF SAMPLES	12	2	2	2	2	2	2	2	2
MINIMUM	1.75E-01								
MAXIMUM	1.05E+00								
AVERAGE	4.24E-01	2.55E-01	2.05E+01	2.78E+00	1.32E+00	2.48E+01		10.3	15.69%
STANDARD DEVIATION	2.08E-01	8.50E-02	2.00E+01	2.68E+00	8.45E-01	2.36E+01		1.5	12.49%
LIMIT	1							30	
FACTOR FOR COMPARISON OF SURVEY DATA @95% CONFIDENCE:	1.796							6.314	
DATA TEST PARAMETER	0.53							130.36	
"NUMBER OF SAMPLES" FACTOR	2.77							0.22	
DOES DATA SATISFY LIMIT CRITERIA?	YES							NO	
WERE AN ADEQUATE NUMBER OF SAMPLES TAKEN?	YES							NO	

BACKGROUND SOIL RESULTS (SEE REPORT #007 FOR INFORMATION)	GAMMA SPEC.		ALPHA SPECTROMETRY RESULTS						RATIO OF	
	U-235 pCi/gm		U-233 pCi/gm	U-234 pCi/gm	U-235 pCi/gm	U-238 pCi/gm	U-TOTAL pCi/gm	U-TOTAL TO U-235	%U-235	
AVERAGE	4.70E-01		1.67E-02	4.61E-01	5.98E-02	4.49E-01	9.86E-01	29.5	1.95%	
STANDARD DEVIATION	3.24E-01		6.96E-03	2.54E-01	8.76E-02	2.19E-01	4.89E-01	13.2	2.12%	

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TABLE 10

RADIOLOGICAL SURVEY DATA AND COMPARISON AGAINST ACCEPTANCE CRITERIA FOR SURVEYS OF UNPAVED AREAS (SURVEY SECTION 30)

LOCATION (AREA #)	SOIL SAMPLE NUMBER	X,Y COORDINATES	POINT NUMBER	L E GAMMA SCAN		L E GAMMA	GAMMA @ 1m	GAMMA @ 1m	BETA COUNT	COMMENTS
				MAX CPM	AVG CPM	MIN COUNT (COUNTS)	1 MIN AVG (microR/hr)	GRID AVG. (microR/hr)	1 MIN COUNT DPM/100cm <sup>2</sup>	
1	751	30,0	1	14963	12500	12223	12.7	12.0	N/A	SAMP #751
1		"	2			12073	11.5		"	NEAR BRICK BUILDING
1		"	3			12233	11.7		"	AREA APPROX. 10m X 4m
1		"	4			12220	11.7		"	
1		"	5			11161	12.4		"	
1	758	20,100	1	14863	12900	12555	11.5	11.5	N/A	SAMP #758
1		"	2			12393	11.7		"	
1		"	3			12346	11.7		"	
1		"	4			11981	11.5		"	
1		"	5			11973	11.1		"	
1	757	40,100	1	15385	12200	11984	11.2	11.6	N/A	SAMP #757
1		"	2			12649	12.2		"	
1		"	3			12533	12.4		"	
1		"	4			11463	11.0		"	
1		"	5			11607	11.4		"	
3	753	15,40	1	16394	13800	14506	13.0	13.2	N/A	SAMP #753
3		"	2			14437	13.9		"	
3		"	3			14229	13.6		"	
3		"	4			14031	12.5		"	
3		"	5			13986	13.0		"	
3	752	25,0	1	20271	12700	14713	13.3	13.4	N/A	SAMP #752
3		"	2			14623	13.4		"	
3		"	3			14008	12.6		"	
3		"	4			15079	13.2		"	
3		"	5			15509	14.5		"	
3	756	40,0	1	17850	15000	14161	13.4	12.8	N/A	SAMP #756
3		"	2			13680	12.2		"	
3		"	3			13136	11.4		"	
3		"	4			13394	12.9		"	
3		"	5			14921	14.2		"	
4	754	20,185	1	15268	12000	10872	10.9	10.8	N/A	SAMP #754

TABLE 10

RADIOLOGICAL SURVEY DATA AND COMPARISON AGAINST ACCEPTANCE CRITERIA FOR SURVEYS OF UNPAVED AREAS (SURVEY SECTION 30)

LOCATION (AREA #)	SOIL SAMPLE NUMBER	X, Y COORDINATES	POINT NUMBER	L E GAMMA SCAN		L E GAMMA	GAMMA @ 1m	GAMMA @ 1m	BETA COUNT	COMMENTS
				MAX CPM	AVG CPM	1 MIN COUNT (COUNTS)	1 MIN AVG (microR/hr)	GRID AVG. (microR/hr)	1 MIN COUNT DPM/100cm <sup>2</sup>	
4		"	2			11108	10.8		"	
4		"	3			11459	10.7		"	
4		"	4			10919	10.8		"	
4		"	5			11093	10.6		"	
5	755	85,20	1	12346	10700	10444	10.0	9.9	N/A	SAMP #755
5		"	2			10226	9.8		"	
5		"	3			10855	10.4		"	
5		"	4			11135	9.6		"	
5		"	5			10001	9.6		"	
8	761	10,10	1	19170	14000	16234	16.0	17.0	N/A	SAMP #761
8		"	2			19219	17.0		"	
8		"	3			17975	18.0		"	
8		"	4			15442	17.0		"	
8		"	5			17352	17.0		"	
8	762	30,10	1	21144	15000	18484	15.0	15.8	N/A	SAMP #762
8		"	2			19081	16.0		"	
8		"	3			21205	18.0		"	
8		"	4			14964	15.0		"	
8		"	5			13969	15.0		"	
8	763	50,10	1	16998	14400	13845	16.0	15.8	N/A	SAMP #763
8		"	2			15202	15.0		"	
8		"	3			14889	16.0		"	
8		"	4			14467	15.0		"	
8		"	5			16346	17.0		"	
8	764	70,10	1	16129	13000	14331	15.0	14.8	N/A	SAMP #764
8		"	2			14432	14.0		"	
8		"	3			14486	14.0		"	
8		"	4			14475	15.0		"	
8		"	5			15182	16.0		"	
8	765	90,10	1	15190	13000	13521	15.0	14.6	N/A	SAMP #765
8		"	2			16486	15.0		"	

TABLE 10

RADIOLOGICAL SURVEY DATA AND COMPARISON AGAINST ACCEPTANCE CRITERIA FOR SURVEYS OF UNPAVED AREAS (SURVEY SECTION 30)

LOCATION (AREA #)	SOIL SAMPLE NUMBER	X, Y COORDINATES	POINT NUMBER	L E GAMMA SCAN		L E GAMMA	GAMMA @ 1m	GAMMA @ 1m	BETA COUNT	COMMENTS
				MAX CPM	AVG CPM	1 MIN COUNT (COUNTS)	1 MIN AVG (microR/hr)	GRID AVG. (microR/hr)	1 MIN COUNT DPM/100cm <sup>2</sup>	
8		"	3			16542	13.0		"	
8		"	4			14301	15.0		"	
8		"	5			16226	15.0		"	
8	766	110,10	1	14493	11000	14464	13.0	13.4	N/A	SAMP #766
8		"	2			14932	14.0		"	
8		"	3			12592	14.0		"	
8		"	4			11461	13.0		"	
8		"	5			13382	13.0		"	
8	767	40,20	1	16578	13200	14404	16.0	16.4	N/A	SAMP #767
8		"	2			15450	17.0		"	
8		"	3			15576	17.0		"	
8		"	4			15211	15.0		"	
8		"	5			14843	17.0		"	
8	768	80,5	1	15958	13100	16563	14.0	14.0	N/A	SAMP #768
8		"	2			14746	13.0		"	
8		"	3			14439	15.0		"	
8		"	4			12311	14.0		"	
8		"	5			14601	14.0		"	
11	750	0,30	1	15916	12900	13843	13.1	12.5	N/A	SAMP #750
11		"	2			13661	12.6		"	NEAR BRICK BUILDING
11		"	3			12795	12.1		"	AREA APPROX. 10m x 3m
11		"	4			13508	12.2		"	
11		"	5			14275	12.7		"	
17	717	@ Soil	1	15070	13000	14132	19.0	18.0	N/A	Sample point @ 5 meters
17		Sample #717	2			13082	17.0		"	west of 0' reference rear
17		"	3			16803	20.0		"	east gate.
17		"	4			13815	17.0		"	"
17		"	5			13828	17.0		"	"
17	718	@ Soil	1	17219	13514	14235	17.0	16.2	N/A	Sample point @ 30 meters
17		Sample #718	2			14920	17.0		"	west of 0' reference rear
17		"	3			14551	15.0		"	east gate.

TABLE 10  
 RADIOLOGICAL SURVEY DATA AND COMPARISON AGAINST ACCEPTANCE CRITERIA FOR SURVEYS OF UNPAVED AREAS (SURVEY SECTION 30)

LOCATION (AREA #)	SOIL SAMPLE NUMBER	X, Y COORDINATES	POINT NUMBER	L E GAMMA SCAN		L E GAMMA		GAMMA @ 1m	GAMMA @ 1m	BETA COUNT	COMMENTS
				MAX CPM	AVG CPM	1 MIN COUNT (COUNTS)	1 MIN AVG (microR/hr)	GRID AVG. (microR/hr)	1 MIN COUNT DPM/100cm <sup>2</sup>		
17		"	4			15196	16.0		"	"	
17		"	5			13877	16.0		"	"	
17	719	@ Soil	1	17150	13800	14061	19.0	17.2	N/A		Sample point @ 50 meters
17		Sample #719	2			13675	16.0		"		west of 0' reference rear
17		"	3			13099	18.0		"		east gate.
17		"	4			13579	16.0		"		"
17		"	5			13376	17.0		"		"
17	720	@ Soil	1	15350	12800	13310	19.0	16.8	N/A		Sample point @ 70 meters
17		Sample #720	2			13934	17.0		"		west of 0' reference rear
17		"	3			13796	17.0		"		east gate.
17		"	4			11503	15.0		"		"
17		"	5			13607	16.0		"		"
17	721	@ Soil	1	17950	14600	12736	15.0	16.2	N/A		Sample point @ 85 meters
17		Sample #721	2			14406	18.0		"		west of 0' reference rear
17		"	3			13579	17.0		"		east gate.
17		"	4			12229	16.0		"		"
17		"	5			12637	15.0		"		"
17	722	@ Soil	1	16840	12800	12470	16.0	17.2	N/A		Sample point @ 100 meters
17		Sample #722	2			17061	20.0		"		west of 0' reference rear
17		"	3			13924	17.0		"		east gate.
17		"	4			13550	17.0		"		"
17		"	5			14826	16.0		"		"
17	723	@ Soil	1	14870	13213	13876	16.0	17.2	N/A		Sample point @ 115 meters
17		Sample #723	2			14082	20.0		"		west of 0' reference rear
17		"	3			14611	17.0		"		east gate.
17		"	4			14567	17.0		"		"
17		"	5			14865	16.0		"		"
17	724	@ Soil	1	14789	13364	13836	18.0	17.2	N/A		Sample point @ 140 meters
17		Sample #724	2			13931	21.0		"		west of 0' reference rear
17		"	3			13332	18.0		"		east gate.
17		"	4			11020	14.0		"		"

TABLE 10

RADIOLOGICAL SURVEY DATA AND COMPARISON AGAINST ACCEPTANCE CRITERIA FOR SURVEYS OF UNPAVED AREAS (SURVEY SECTION 30)

LOCATION (AREA #)	SOIL SAMPLE NUMBER	X,Y COORDINATES	POINT NUMBER	L E GAMMA SCAN		L E GAMMA	GAMMA @ 1m	GAMMA @ 1m	BETA COUNT	COMMENTS
				MAX CPM	AVG CPM	1 MIN COUNT (COUNTS)	1 MIN AVG (microR/hr)	GRID AVG. (microR/hr)	1 MIN COUNT DPM/100cm <sup>2</sup>	
17		"				14666	15.0		"	"
17	725	@ Soil		17893	13461	12944	17.0	17.4	N/A	Sample point @ 165 meters
17		Sample #725	2			15611	18.0		"	west of 0' reference rear
17		"	3			13598	19.0		"	east gate.
17		"	4			15988	17.0		"	"
17		"	5			15965	16.0		"	"
17	726	@ Soil	1	18250	13150	14595	17.0	17.4	N/A	Sample point @ 180 meters
17		Sample #726	2			14524	18.0		"	west of 0' reference rear
17		"	3			15192	17.0		"	east gate.
17		"	4			13645	18.0		"	"
17		"	5			13712	17.0		"	"
17	727	@ Soil	1	16625	13100	14074	17.0	17.2	N/A	Sample point @ 195 meters
17		Sample #727	2			13973	17.0		"	west of 0' reference rear
17		"	3			14413	19.0		"	east gate.
17		"	4			12584	17.0		"	"
17		"	5			13293	16.0		"	"
17	728	@ Soil	1	17654	13825	15450	18.0	18.6	N/A	Sample point @ 210 meters
17		Sample #728	2			13474	19.0		"	west of 0' reference rear
17		"	3			14432	18.0		"	east gate.
17		"	4			14700	19.0		"	"
17		"	5			13557	19.0		"	"
17	729	@ Soil	1	15827	12791	15205	19.0	18.4	N/A	Sample point @ 225 meters
17		Sample #729	2			13614	18.0		"	west of 0' reference rear
17		"	3			13783	20.0		"	east gate.
17		"	4			13684	17.0		"	"
17		"	5			14188	18.0		"	"
17	730	@ Soil	1	15890	13551	13733	17.0	15.6	N/A	Sample point @ 20 meters
17		Sample #730	2			13570	16.0		"	south of 225 meter point
17		"	3			13374	16.0		"	west of 0' reference rear
17		"	4			11851	14.0		"	east gate.(Rdgs. span at
17		"	5			12688	15.0		"	5 meter x 2.5 meter area)

TABLE 10  
 RADIOLOGICAL SURVEY DATA AND COMPARISON AGAINST ACCEPTANCE CRITERIA FOR SURVEYS OF UNPAVED AREAS (SURVEY SECTION 30)

LOCATION (AREA #)	SOIL SAMPLE NUMBER	X,Y COORDINATES	POINT NUMBER	L E GAMMA SCAN		L E GAMMA	GAMMA @ 1m	GAMMA @ 1m	BETA COUNT	COMMENTS
				MAX CPM	AVG CPM	1 MIN COUNT (COUNTS)	1 MIN AVG (microR/hr)	GRID AVG. (microR/hr)	1 MIN COUNT DPM/100cm <sup>2</sup>	
17	731	@ Soil	1	14670	11883	12336	16.0	15.4	N/A	Sample point @ 40 meters
17		Sample #731	2			11531	15.0		"	south of 225 meter point
17		"	3			11755	17.0		"	west of 0' reference rear
17		"	4			12382	15.0		"	east gate. (Rdgs. span at
17		"	5			11734	14.0		"	5 meter x 2.5 meter area)
17	759	@ Soil	1	10158	9500	9899	11.0	11.0	N/A	Sample point @ 125 meters
17		Sample #759	2						"	south of 225 meter point
17		"	3						"	west of 0' reference rear
17		"	4						"	east gate. Area too small
17		"	5						"	for all readings.
17	760	@ Soil	1	10502	9200	9154	10.0	10.8	N/A	Sample point @ 160 meters
17		Sample #760	2			9466	11.0		"	south of 225 meter point
17		"	3			8755	10.0		"	west of 0' reference rear
17		"	4			9198	12.0		"	east gate.
17		"	5			10011	11.0		"	

STATISTICAL ANALYSIS:

NUMBER OF SAMPLES	34	34	166	166	34
MINIMUM	10158	9200	8755	9.60	9.88
MAXIMUM	21144	15000	21205	21.00	18.60
AVERAGE	16048	12910	13722	15.02	14.92
STANDARD DEVIATION	2226	946	1902	2.64	2.51
LIMIT				18.0	18.0
FACTOR FOR COMPARISON OF SURVEY DATA @95% CONFIDENCE:				1.657	1.693
DATA TEST PARAMETER				15.36	15.65
"NUMBER OF SAMPLES" FACTOR				1.13	1.23
DOES DATA SATISFY LIMIT CRITERIA?				YES	YES
WERE AN ADEQUATE NUMBER OF SAMPLES TAKEN?				YES	YES

Rev. 1



TABLE 11  
ANALYTICAL RESULTS FOR SOIL SAMPLES TAKEN OF SITE GROUNDS

PROJ ID	AREA LOCATION	X COORDINATE	Y COORDINATE	GAMMA SPEC.		ALPHA SPECTROMETRY RESULTS						IS U-TOTAL <30 pCi/gm	RATIO OF U-TOTAL TO U-235	%U-235	
				LAB ID	U-235 pCi/gm	LAB ID	U-233 pCi/gm	U-234 pCi/gm	U-235 pCi/gm	U-238 pCi/gm	U-TOTAL pCi/gm				
728	17	at 210 m west of 0 m		93- 787	<3.50E-01										
729	17	at 225 m west of 0 m		93- 788	<2.20E-01										
COMPOSITE, SAMP. #726,727,728,729				AVG.=2.56E-01		93- 785	<8.00E-02	4.20E-01	<5.00E-01	3.00E-01	1.30E+00	YES	2.6	20.58%	
730	17	20m south of 225m point		93- 789	<3.20E-01										
731	17	40m south of 225m point		93- 790	<2.40E-01										
759	17	125m south of 225m point		93- 818	<3.70E-01										
760	17	160m south of 225m point		93- 819	1.57E-01										
COMPOSITE, SAMP. #730,731,759,760				AVG.=2.94E-01		93- 789	<8.00E-02	4.20E-01	<1.00E-01	4.10E-01	1.01E+00	YES	10.1	3.65%	

STATISTICAL ANALYSIS:

NUMBER OF SAMPLES	34	10	10	10	10	10	10	10
MINIMUM	1.40E-01						1.01E+00	
MAXIMUM	3.70E-01						3.29E+00	
AVERAGE	2.65E-01	1.44E-01	8.57E-01	1.56E-01	4.89E-01	1.65E+00		13.2 5.23%
STANDARD DEVIATION	7.48E-02	6.23E-02	5.79E-01	1.17E-01	1.06E-01	6.23E-01		5.7 5.15%
LIMIT	1						30	
FACTOR FOR COMPARISON OF SURVEY DATA @95% CONFIDENCE:	1.693						1.833	
DATA TEST PARAMETER	0.29						2.01	
"NUMBER OF SAMPLES" FACTOR	9.83						45.50	
DOES DATA SATISFY LIMIT CRITERIA?	YES						YES	
WERE AN ADEQUATE NUMBER OF SAMPLES TAKEN?	YES						YES	

BACKGROUND SOIL RESULTS (SEE REPORT #007 FOR INFORMATION)	GAMMA SPEC.		ALPHA SPECTROMETRY RESULTS					RATIO OF U-TOTAL TO U-235	%U-235
	U-235 pCi/gm	U-233 pCi/gm	U-234 pCi/gm	U-235 pCi/gm	U-238 pCi/gm	U-TOTAL pCi/gm			
AVERAGE	3.24E-01	1.67E-02	4.61E-01	5.98E-02	4.49E-01	9.86E-01	29.5	1.95%	
STANDARD DEVIATION	1.01E-01	6.96E-03	2.45E-01	8.76E-02	2.19E-01	4.89E-01	13.2	2.12%	



APPENDIX T  
RADIOLOGICAL SURVEY DATA SHEETS  
FOR UNPAVED SURFACE SAMPLE POINTS

REPORT #039  
(ADDENDUM 1)

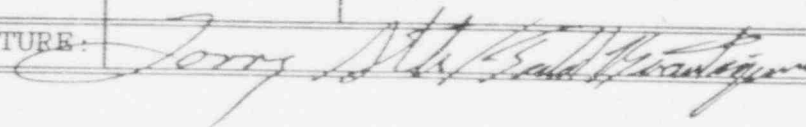
SURVEY TYPE: [ ] PAVED	
[X] UNPAVED	
SURVEY DATE:	6-3-93
LOCATION:	AREA 17
FORM S/N:	30-008
DISK CODE:	GRND-012

* IF USED	INSTRUMENT	S/N	EFF %	CORR FAC	BKG
*	PRS - 1	346	N/A	N/A	8714 CPM
	R/S	L-2088	N/A	N/A	uR/hr
*	PRM - 7	234	N/A	N/A	10 uR/hr
	FLMON	91943	28.8	3.47	CPM
	ESP - 2	1595	27.4	3.9	CPM

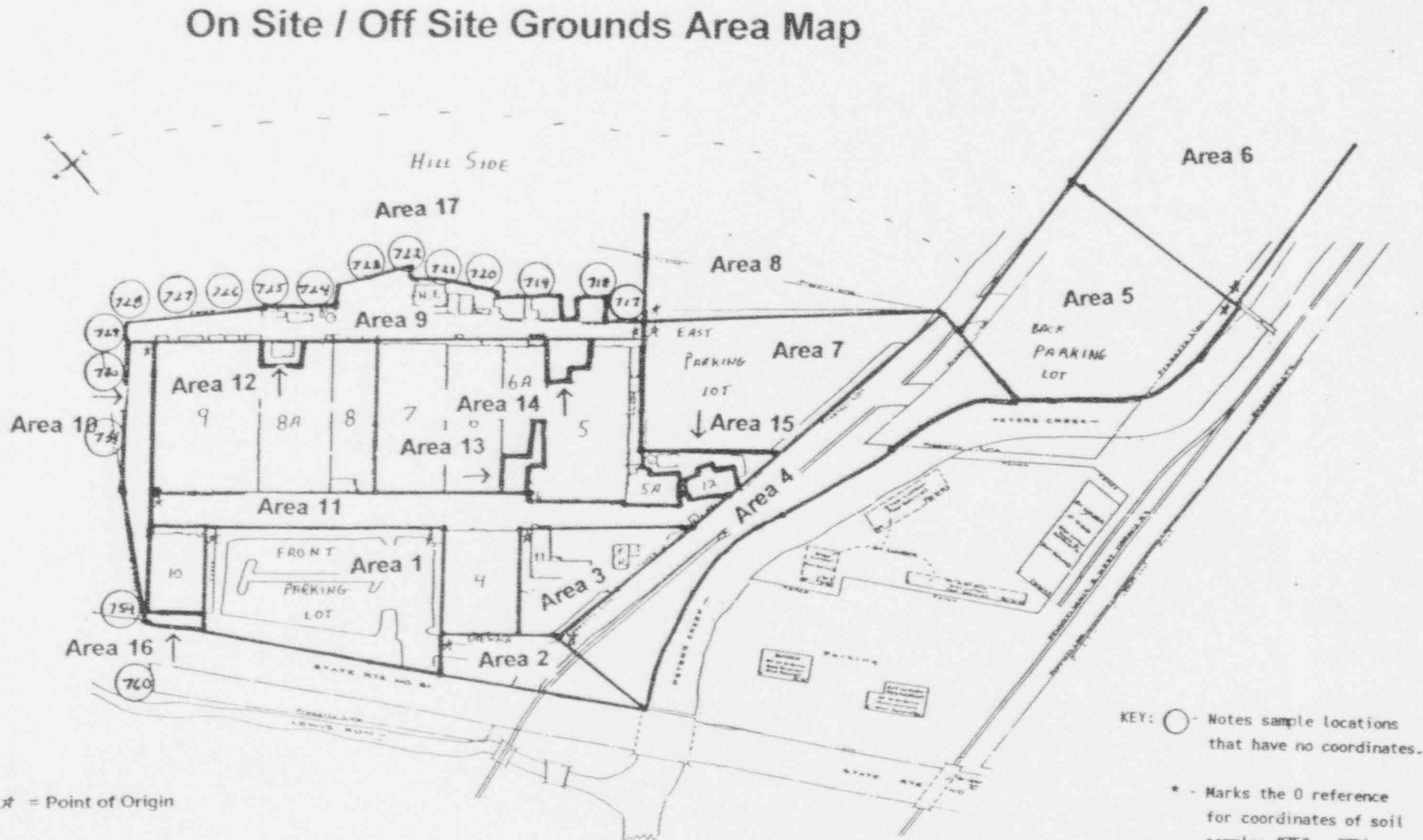
X, Y COORDINATES	POINT NUMBER	L E GAMMA SCAN MAX CPM	AVG CPM	L E GAMMA 1 MIN CT	GAMMA @1m 1 MIN AVG	BETA CONT 1 MIN CT	COMMENTS		
@ SOIL	1	10158	9500	9899	11	N/A	SAMPLE POINT @ 125m		
SAMPLE #759	2	SCAN APPLIES TO ENTIRE 10m x 10m AREA		AREA TOO SMALL FOR MORE DATA POINTS		"	SOUTH OF 225m POINT		
"	3						WEST OF 0m REFERENCE		
"	4						REAR EAST GATE		
"	5								
@ SOIL	1						10502	9200	9154
SAMPLE #760	2	SCAN APPLIES TO ENTIRE 10m x 10m AREA				"	SOUTH OF 225m POINT		
"	3						8755	10	WEST OF 0m REFERENCE
"	4						9198	12	REAR EAST GATE
"	5						10011	11	
"	1								
"	2	SCAN APPLIES TO ENTIRE 10m x 10m AREA				"			
"	3								
"	4								
"	5								
"	1								
"	2	SCAN APPLIES TO ENTIRE 10m x 10m AREA				"			
"	3								
"	4								
"	5								
"	1								

SURVEYOR: Todd Brautigam / Larry Smith

SURVEYOR SIGNATURE:



# On Site / Off Site Grounds Area Map



KEY: ○ - Notes sample locations that have no coordinates.

\* - Marks the 0 reference for coordinates of soil samples #750 - #758 and #761 - #768.

\* = Point of Origin

"OFFICIAL RECORD COPY" ML 10 117646

LICENSE TERMINATION REPORT

USNRC LICENSE NO. SNM-951

DISPOSITION OF LICENSED MATERIAL

September 27, 1993

WESTINGHOUSE ELECTRIC CORPORATION

LARGE, PA

REPORT #043

"OFFICIAL RECORD COPY" ML 10

# 117646

## DISPOSITION OF LICENSED MATERIAL

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Appendix C - Shipment Records for Waste Tanks	
Appendix D - Shipment Records for Drums and Bins	
Appendix E - Shipment Records for Mixed Waste Drums	

## DISPOSITION OF LICENSED MATERIAL

### Purpose

The Westinghouse Electric Corporation is preparing to request the termination of USNRC License Number SNM-951 for the site located in Large, PA. This report is one of a series of reports that presents the necessary information to establish that the site meets all applicable regulatory requirements so that the license can be terminated by the United States Nuclear Regulatory Commission.

### Scope

This report documents the final disposition of all licensed material under License Number SNM-951. Included are the shipping records which document the transfer of licensed materials to other licensed operations authorized to receive such materials.

### Certification of Disposition of Materials

The required NRC Form 314 is provided in Appendix A. Reference is made to information contained in this report and other reports as appropriate.

### Radiation Survey Information

Section B.2 of NRC Form 314 requests information on the Radiation Survey conducted to confirm the absence of licensed radioactive materials and to determine whether any contamination remains on the premises covered by the license. Detailed radiation surveys have been conducted and submitted to the USNRC in a series of reports as listed in Table 1 of this report.

### Shipment Records

Upon initiation of the program to terminate License Number SNM-951, the only known licensed material present on the site was the calibration and check sources and the residual contamination associated with the monitored drain line. During the cleanup some additional residual contamination was identified and removed. All such contamination was packaged for disposal. Table 2 provides a summary of the disposition of all such waste and shipping documentation is included in the appendices.

### Conclusion

All licensed material has been removed from the Westinghouse site in Large, PA. License Number SNM-951 can therefore be terminated.

TABLE 1

## INDEX OF LICENSE TERMINATION REPORTS BY REPORT NUMBER

		<u>Date Submitted</u>
REPORT #001	EVALUATION OF RADIATION DOSIMETERS DISTRIBUTED ON THE SITE, NOVEMBER 2, 1992	1/11/93
REPORT #002	REMOVAL OF THE MONITORED DRAIN LINE SYSTEM, NOVEMBER 24, 1992	1/11/93
REPORT #003	EVALUATION OF PORTIONS OF MONITORED DRAIN LINE SYSTEM ABANDONED IN PLACE, NOVEMBER 24, 1992	1/11/93
REPORT #004	DETERMINATION OF RADIOLOGICAL SURVEY ACCEPTANCE CRITERIA FOR LICENSE TERMINATION SURVEYS, DECEMBER 1, 1992	1/11/93
REPORT #005	FINAL RADIOLOGICAL SURVEY OF INCINERATOR BUILDING, DECEMBER 11, 1992	1/11/93
REPORT #006	PRELIMINARY SURVEY OF SELECTED SITE BUILDINGS, DECEMBER 7, 1992	1/11/93
REPORT #007	DETERMINATION OF SITE BACKGROUND VALUES FOR RADIOLOGICAL MEASUREMENTS, DECEMBER 18, 1992	2/12/93
REPORT #008	FINAL RADIOLOGICAL SURVEY OF PIT BEHIND BUILDING 5, JANUARY 6, 1993	2/12/93
REPORT #009	GENERAL INFORMATION RELATIVE TO RADIOLOGICAL SURVEYS OF BUILDINGS, JANUARY 6, 1993	2/12/93
REPORT #010	FINAL RADIOLOGICAL SURVEY OF PIPE CHASES WITHIN BUILDING NUMBER 9, JANUARY 6, 1993	2/12/93

TABLE 1 (CONTINUED)

REPORT #011	FINAL RADIOLOGICAL SURVEY OF BUILDING NO. 8, (SURVEY SECTION 28E), JANUARY 26, 1993	2/24/93
REPORT #012	FINAL RADIOLOGICAL SURVEY OF THE FIRST FLOOR OF BUILDING NO. 7, (SURVEY SECTION 7), JANUARY 29, 1993	2/24/93
REPORT #013	FINAL RADIOLOGICAL SURVEY OF BUILDING NO. 7, SECOND FLOOR, (SURVEY SECTION 28D), FEBRUARY 4, 1993	2/24/93
REPORT #014	FINAL RADIOLOGICAL SURVEY OF BUILDING NO. 6A, (SURVEY SECTION 6), FEBRUARY 9, 1993	2/24/93
REPORT #015	FINAL RADIOLOGICAL SURVEY OF THE BASEMENT OF BUILDING NO. 4, (SURVEY SECTION 14), FEBRUARY 16, 1993	2/24/93
REPORT #016	FINAL RADIOLOGICAL SURVEY OF THE PIT IN BUILDING NO. 9, (SURVEY SECTION 9), MARCH 10, 1993	4/16/93
REPORT #017	FINAL RADIOLOGICAL SURVEY OF THE FIRST FLOOR OF BUILDING NO. 6, (SURVEY SECTION 4), MARCH 11, 1993	4/16/93
REPORT #018	FINAL RADIOLOGICAL SURVEY OF BUILDING NO. 11, (SURVEY SECTION 28I), MARCH 15, 1993	4/16/93
REPORT #019	FINAL RADIOLOGICAL SURVEY OF THE SECOND FLOOR OF BUILDING NO. 6, (SURVEY SECTION 5), MARCH 15, 1993	4/16/93
REPORT #020	FINAL RADIOLOGICAL SURVEY OF THE FIRST FLOOR OF BUILDING NO. 9, (SURVEY SECTION 10), MARCH 17, 1993	4/16/93
REPORT #021	FINAL RADIOLOGICAL SURVEY OF BUILDING NO. 10, (SURVEY SECTION 28H), MARCH 17, 1993	4/30/93



TABLE 1 (CONTINUED)

REPORT #022	FINAL RADIOLOGICAL SURVEY OF THE SECOND FLOOR OF BUILDING NO. 9, (SURVEY SECTION 28G), MARCH 17, 1993	4/16/93
REPORT #023	FINAL RADIOLOGICAL SURVEY OF THE SECOND FLOOR OF BUILDING NO. 5, (SURVEY SECTION 2), MARCH ? , 1993	4/16/93
REPORT #024	FINAL RADIOLOGICAL SURVEY OF THE THIRD FLOOR OF BUILDING NO. 5, (SURVEY SECTION 3), MARCH 31, 1993	4/16/93
REPORT #025	FINAL RADIOLOGICAL SURVEY OF THE FIRST AND SECOND FLOORS OF BUILDING NO. 4, (SURVEY SECTION 28A), APRIL 1, 1993	4/30/93
REPORT #026	FINAL RADIOLOGICAL SURVEY OF BUILDING NO. 5A, (SURVEY SECTION 28C), APRIL 5, 1993	4/30/93
REPORT #027	FINAL RADIOLOGICAL SURVEY OF THE FIRST FLOOR OF BUILDING NO. 12, (SURVEY SECTION 16) APRIL 5, 1993	4/30/93
REPORT #028	FINAL RADIOLOGICAL SURVEY OF THE SECOND FLOOR OF BUILDING NO. 12, (SURVEY SECTION 28L), APRIL 7, 1993	4/30/93
REPORT #029	FINAL RADIOLOGICAL SURVEY OF THE THIRD FLOOR OF BUILDING NO. 4, (SURVEY SECTION 15), APRIL 7, 1993	4/30/93
REPORT #030	FINAL RADIOLOGICAL SURVEY OF THE FOURTH FLOOR OF BUILDING NO. 5, (SURVEY SECTION 28B), APRIL 8, 1993	4/30/93
REPORT #031	FINAL BUILDING SURVEY OF THE FIREHALL, (SURVEY SECTION 28J), APRIL 8, 1993	4/30/93
REPORT #032	FINAL RADIOLOGICAL SURVEY OF THE SECOND FLOOR OF BUILDING NO. 8A, (SURVEY SECTION 28F), APRIL 8, 1993	4/30/93

TABLE 1 (CONTINUED)

REPORT #033	FINAL RADIOLOGICAL SURVEY OF THE HYDROGEN FACILITY, (SURVEY SECTION 11), MAY 10, 1993	5/14/93
REPORT #034	FINAL RADIOLOGICAL SURVEY OF THE FIRST FLOOR OF BUILDING NO. 5, (SURVEY SECTION 1), APRIL 20, 1993	4/30/93
REPORT #035	FINAL RADIOLOGICAL SURVEY OF THE FIRST FLOOR OF BUILDING NO. 8A, (SURVEY SECTION 8), MAY 5, 1993	5/14/93
REPORT #036	CALIBRATION RECORDS FOR INSTRUMENTS USED FOR RADIOLOGICAL SURVEYS, APRIL 22, 1993	5/14/93
REPORT #037	TECHNICAL DESCRIPTION OF INSTRUMENTS USED FOR RADIOLOGICAL SURVEYS, APRIL 30, 1993	5/14/93
REPORT #038	FINAL RADIOLOGICAL SURVEY OF THE BUILDING ROOFS, (SURVEY SECTION 29), JUNE 1, 1993	7/9/93
REPORT #039	FINAL RADIOLOGICAL SURVEY OF THE SITE GROUNDS, (SURVEY SECTION 30), JUNE 2, 1993	7/9/93
REPORT #039	FINAL RADIOLOGICAL SURVEY OF THE SITE GROUNDS (SURVEY SECTION 30), JULY 19, 1993 (ADDENDUM 1)	9/29/93 <del>10/1/93</del>
REPORT #040	RADIOLOGICAL SURVEY OF STREAMS ADJACENT TO THE SITE, (SURVEY SECTION 31)	7/9/93
REPORT #041	FINAL RADIOLOGICAL SURVEY OF THE STORM DRAIN SYSTEM ON THE SITE, (SURVEY SECTION 32), JUNE 8, 1993	7/9/93
REPORT #042	SUMMARY REPORT ON INFORMATION RELEVANT TO TERMINATION OF LICENSE NUMBER SNM-951, JULY 9, 1993	7/20/93
REPORT #043	DISPOSITION OF LICENSED MATERIAL	9/29/93 <del>10/1/93</del>

TABLE 2

	Description of Material	Date of Transfer	Name of License Recipient	Recipient's License Number	Comments
1	Calibration and check sources for radiation survey instruments.	8/26/93	Westinghouse Electric Corporation	USNRC License No. 37-00497-15	See Appendix B
2	Four waste tanks which were part of the Monitored Drain Line System which were removed.	7/28/93	ALARON Corporation	USNRC License No. 37-20826-02	See Appendix C
3	Forty-four drums and six bins of waste.	9/21/93	ALARON Corporation	USNRC License No. 37-20826-02	See Appendix D
4	Five bins of mixed waste.	9/23/93	Westinghouse Electric Corporation	USNRC License No. SNM-770	See Appendix E

APPENDIX A

NRC FORM 314, CERTIFICATE OF DISPOSITION OF MATERIALS

(5-92)  
10 CFR 30.36(c)(1)(iv)  
10 CFR 40.42(c)(1)(iv)  
10 CFR 70.36(c)(1)(iv)

### CERTIFICATE OF DISPOSITION OF MATERIALS

INSTRUCTIONS: ALL ITEMS MUST BE COMPLETED -- PRINT OR TYPE  
SEND THE COMPLETED CERTIFICATE TO THE NRC OFFICE SPECIFIED ON THE REVERSE

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION  
COLLECTION REQUEST: 30 MINUTES. FORWARD COMMENTS REGARDING  
BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH  
(MNB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC  
20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0028),  
OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

LICENSEE NAME AND ADDRESS

Westinghouse Electric Corporation  
Route 51 South  
Large, Pennsylvania 15025

LICENSEE NUMBER

SNM-951

LICENSE EXPIRATION DATE

October 31, 1996

#### A. MATERIALS DATA (Check one and complete as necessary)

THE LICENSEE OR ANY INDIVIDUAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE LICENSEE CERTIFIES THAT:  
(Check and/or complete the appropriate item(s) below.)

1. NO MATERIALS HAVE EVER BEEN PROCURED OR POSSESSED BY THE LICENSEE UNDER THIS LICENSE.
- OR
2. ALL MATERIALS PROCURED AND/OR POSSESSED BY THE LICENSEE UNDER THE LICENSE NUMBER CITED ABOVE HAVE BEEN  
DISPOSED OF IN THE FOLLOWING MANNER. *(If additional space is needed, use the reverse side or provide attachments.)*  
Describe specific material transfer actions and, if there were radioactive wastes generated in terminating this license, the disposal actions including the  
disposition of low-level radioactive waste, mixed waste, Greater-than-Class-C waste, and sealed sources, if applicable.

See Table 2 of this report.

For transfers, specify the date of the transfer, the name of the licensed recipient, and the recipient's NRC license number or Agreement State name and  
license number.

See Table 2 of this report.

If materials were disposed of directly by the licensee rather than transferred to another licensee, licensed disposal site or waste contractor, describe the  
specific disposal procedures (e.g., decay in storage).

Not applicable.

#### B. OTHER DATA

1. OUR LICENSE HAS NOT YET EXPIRED; PLEASE TERMINATE IT.
2. WAS A RADIATION SURVEY CONDUCTED TO CONFIRM THE ABSENCE OF LICENSED RADIOACTIVE MATERIALS AND TO DETERMINE WHETHER  
ANY CONTAMINATION REMAINS ON THE PREMISES COVERED BY THE LICENSE? (Check one)

NO (Attach explanation)

YES, THE RESULTS (Check one)

ARE ATTACHED, or

WERE FORWARDED TO NRC ON (Date)

See Table 1 of report for dates.

3. THE PERSON TO BE CONTACTED REGARDING THE  
INFORMATION PROVIDED ON THIS FORM

NAME

A. Joseph Nardi

TELEPHONE NUMBER (Include Area Code)

412-374-4652

4. MAIL ALL FUTURE CORRESPONDENCE REGARDING THIS LICENSE TO

Manager, Regulatory Services  
Westinghouse Electric Corporation  
P. O. Box 355  
Pittsburgh, PA 15230-0355

#### CERTIFYING OFFICIAL

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE

A. Joseph Nardi  
Manager, Regulatory Services

SIGNATURE

*A. Joseph Nardi*

DATE

9/27/93

WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS  
REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECTS. 18 U.S.C. SECTION 1001  
MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY  
OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

APPENDIX B

SHIPMENT RECORDS FOR CALIBRATION AND CHECK SOURCES

\*\*\*\*\*  
\* NOTICE \*  
\*\*\*\*\*

This package conforms to the conditions and limitations specified in 49 CPF for excepted radioactive material.

- Limited Quantity; N. O. S. UN 2910, (49 CFR 173.421)
- Limited Quantity; Instruments and Articles, UN 2911
- Limited Quantity; Articles manufactured from natural or depleted uranium or natural thorium, UN 2909 (49 CFR 173.424)

\*\*\*\*\*  
ADDITIONAL INFORMATION:

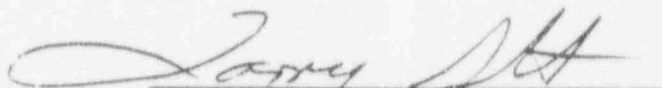
Nuclide: <sup>239</sup>Pu Activity: .009105 uCi Number of Packages: 1

Radiation Levels: Contact / Package: .03 mr/hr @ 1 Meter: .005 mr/hr.

Package Contamination: 4200 Beta 410 Alpha dpm/100cm<sup>2</sup>

Labels: Not Labels Required Package type: Strong Tight Package

Notes: Labeled Internally

  
Health Physics

Westinghouse Electric Corporation  
811 Rt. 51 South (Large Site)  
Pittsburgh, Pa.

APPENDIX C

SHIPMENT RECORDS FOR WASTE TANKS



SHIPPER'S NO. (SHOW THESE NUMBERS ON RT. BILL)

MB 14003

FROM WESTINGHOUSE ELECTRIC CORPORATION

AT (PICK-UP POINT) (W) Large Site

DATE-FREIGHT BILLS TO (POST OFFICE ADDRESS)

CUST. ORDER NO. DATE

SIGNED TO (Mail or street address of consignee - for purposes of notification only)

HLANON Corporation  
Wilmington, DE

This property described below, in apparent good order, except as noted (consents and conditions of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the world 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 final place of delivery at said destination, if on its route, otherwise to deliver to the 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 access to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading and Form (1), in addition Freight Classification is, subject to all the terms and conditions of this bill of lading or 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 in 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 agents.

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 consignee, the consignee shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

Per WESTINGHOUSE ELECTRIC CORPORATION Signatures of Consignor

ROUTE Hlt John Loos

CAR OR VEHICLE INITIAL AND NO. DELIVERING CARRIER

NO. PKGS.	THM	CLASSIFICATION DESCRIPTION (If Hazardous Material Use DOT Description & Class. No Abbreviations)	WEIGHT SUB. TO CAR.
4	X	Radioactive Material, LSA, nos UN2912 75U 363mCi - 70gms Physical form - Solid Chemical form - Oxide TMO Class 7	19,800#
		Carrier please note: All 10 pages of the attached shipping documents must accompany this shipment to destination and must be given to consignee. Page 1 of 10 pages	

SHIPPER'S CERTIFICATION: I hereby 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.

Westinghouse Electric Corporation Shipper, Per James P. Lanigan Carrier, Per F.H. [Signature]

ORIGINAL 3



.....  
 \* RADIOACTIVE SHIPMENT RECORD \*  
 \* SUMMARY \*  
 .....

TO: ALARM Corp.  
Wampum Pa.

SHIPMENT DATE 7-28-93  
 CONSIGNEE LICENSE NRC 37-20826-02  
 ON FILE  REQUESTED

ATTENTION: John Loos

From: Westinghouse Electric Corporation  
 Advanced Energy Systems  
 811 Route 51 South  
 Large, PA 15025

SHIPPING NAME	
<b>RADIOACTIVE MATERIAL</b>	I.D. NO.
INSTRUMENTS AND ARTICLES	UN 2911 <input type="checkbox"/>
n.o.s.	UN 2982 <input type="checkbox"/>
L.S.A., n.o.s.	UN 2912 <input checked="" type="checkbox"/>
LIMITED QUANTITY, n.o.s.	UN 2910 <input type="checkbox"/>
SPECIAL FORM, n.o.s.	UN 2974 <input type="checkbox"/>
FISSILE, n.o.s.	UN 2918 <input type="checkbox"/>
EMPTY PACKAGES	UN 2908 <input type="checkbox"/>
HAZARD CLASS	CLASS NUMBER
<b>RADIOACTIVE MATERIAL</b>	<b>7</b>

FORM - QUANTITY - CLASS	
CHEMICAL FORM	<u>Oxide</u>
PHYSICAL FORM: SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> GAS <input type="checkbox"/>	
NORMAL FORM <input type="checkbox"/> SPECIAL FORM <input type="checkbox"/>	
MUCLIDES	<u>235 U</u>
MILLICURIES	<u>313 mCi</u>
QUANTITY: LTD. QTY. <input checked="" type="checkbox"/> LSA <input type="checkbox"/>	
TYPE A <input type="checkbox"/> TYPE B <input type="checkbox"/>	
GRAMS OF FISSILE	<u>70</u>
FISSILE CLASS: I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/>	
NONE <input type="checkbox"/> EXEMPT <input type="checkbox"/>	
MATERIAL DESCRIPTION	<u>Contamination in Tank</u>

PACKAGES		NUMBER OF PACKAGES
TYPE A <input type="checkbox"/> TYPE B <input type="checkbox"/> STRONG / TIGHT <input checked="" type="checkbox"/>		
DOT SPEC. NO.	<u>N/A</u>	
EXEMPTION NO.	<u>N/A</u>	
GROSS WEIGHT # (OR VOLUME)	<u>10,800</u>	
SEAL: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	SEAL NO.	
SHIPPING NAME & I.D.	YES	NO
CONSIGNEE	<input type="checkbox"/>	<input type="checkbox"/>
P W DOT SPEC. NO.	<input type="checkbox"/>	<input type="checkbox"/>
A A	<input type="checkbox"/>	<input type="checkbox"/>
C R CERTIFIED ADDRESS	<input type="checkbox"/>	<input type="checkbox"/>
K K	<input type="checkbox"/>	<input type="checkbox"/>
A I THIS SIDE UP	<input type="checkbox"/>	<input type="checkbox"/>
G W	<input type="checkbox"/>	<input type="checkbox"/>
E G >110 #	<input type="checkbox"/>	<input type="checkbox"/>
RADIOACTIVE - LSA	<input checked="" type="checkbox"/>	<input type="checkbox"/>
INSIDE RADIOACTIVE	<input type="checkbox"/>	<input type="checkbox"/>

LABELING	
WHITE I <input type="checkbox"/>	EMPTY <input type="checkbox"/>
YELLOW II <input type="checkbox"/>	CARGO AIRCRAFT ONLY <input type="checkbox"/>
YELLOW III <input type="checkbox"/>	NO LABELS REQUIRED <input checked="" type="checkbox"/>
PLACARD VEHICLE	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>

SHIPMENT / PACKAGE TRANSPORT INDEX	
------------------------------------	--

EXCLUSIVE USE VEHICLE	
SEAL: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	SEAL NO.
CAB	<u>See Attached</u> mr/hr
VEHICLE	_____ mr/hr
2 METER	_____ mr/hr

TRANSPORT MODES	SPECIAL FORMS	YES	NO	FORMS ATTACHED
COMPANY VEHICLE <input type="checkbox"/>	MORE THAN (1) PACKAGE:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FORM 1052 <input type="checkbox"/>
HIGHWAY CARRIER <input checked="" type="checkbox"/>	DRIVER INSTRUCTIONS:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FORM 1053 <input type="checkbox"/>
AIR CARGO <input type="checkbox"/>	EXCLUSIVE USE:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FORM 1054 <input type="checkbox"/>
AIR PASSENGER <input type="checkbox"/>	EXCEPTED QUANTITY:	<input type="checkbox"/>	<input type="checkbox"/>	FORM 1055 <input type="checkbox"/>
ESSEL <input type="checkbox"/>	PART 71 APPLIES:	<input type="checkbox"/>	<input type="checkbox"/>	FORM <input type="checkbox"/>
POSTAL <input type="checkbox"/>	SPECIAL UNLOADING INSTRUCTION	<input type="checkbox"/>	<input type="checkbox"/>	FORM <input type="checkbox"/>
	AUTHORIZATION:	<input type="checkbox"/>	<input type="checkbox"/>	FORM <input type="checkbox"/>
	AIR TRANSPORT AUTHORIZED	<input type="checkbox"/>	<input type="checkbox"/>	EXTRA RSR <input type="checkbox"/>

RAM WASTE CHECKS <input checked="" type="checkbox"/>	OK NA <input type="checkbox"/>	SHIPPERS QUALITY ASSURANCE CHECK	BRACING & SHORING <input checked="" type="checkbox"/>
VISUAL TRL CHECKS <input checked="" type="checkbox"/>		CONVEYANCE AND LOAD	PACKAGES - SECURED <input checked="" type="checkbox"/>
VISUAL TRACTOR CKS <input checked="" type="checkbox"/>			PACKAGES - CONDITION <input checked="" type="checkbox"/>

RADIATION SURVEY		MATERIAL UNSHIELDED		OUTSIDE CONTAINER			INSIDE PKG. CONTAMINATION
PKG NO.	CONTAINER DESCRIPTION	CONTACT (mr/hr)	1 METER (mr/hr)	CONTACT (mr/hr)	1 METER (mr/hr)	SHEAR dpm/100cm <sup>2</sup>	dpm/100cm <sup>2</sup>

THIS SHIPMENT IS WITHIN THE LIMITS PRESCRIBED FOR PASSENGER / CARGO AIR ONLY: YES  NO

APPROVALS: ORIGINATOR J. Hangan HEALTH PHYSICS J. Hangan DATE 7-27-93

\*\*\*\*\*  
 \* RADIOACTIVE SHIPMENT RECORD \*  
 \* MANIFEST \*  
 \*\*\*\*\*



Westinghouse Electric Corporation  
 Advanced Energy Systems  
 811 Route 51 South  
 Large, PA 15025

MATERIAL DESCRIPTION \_\_\_\_\_

ITEM NO.	CONTAINER DESCRIPTION	VOLUME OR WEIGHT OF CONTAINER	DOT PACKAGE TYPE	NUCLIDE	PHYSICAL FORM	CHEMICAL FORM	ACTIVITY (millicuries)	S.H.N. (gms) S.G. (#)	mRem/hr ON CONTACT	(T.I.) mRem/h 3 ft.	EXT. PKG. CONTAM. dpm/100cm <sup>2</sup>	PKG. SEAL	LABEL USED
1	Steel Tank	3200 #	Strong Tight	U-235	Solid	Oxide	120	23gms	<0.05	0.05	<10 <sup>00</sup> <2000X	N/A	N/A
2	Steel Tank	3200 #	Strong Tight	U-235	Solid	Oxide	120	23gms	<0.05	0.05	<10 <sup>00</sup> <2000X	N/A	N/A
3	Steel Tank	3200 #	Strong Tight	U-235	Solid	Oxide	120	23gms	<0.05	0.05	<10 <sup>00</sup> <2000X	N/A	N/A
4	Steel Tank	1200 #	Strong Tight	U-235	Solid	Oxide	.03	1 gm	<0.05	0.05	<10 <sup>00</sup> <2000X	N/A	N/A
								(70.0gms)					

4 TOTALS 10,800

3.63 mCi

TOTALS

TABLE 2

ANALYSIS OF ANALYTICAL RESULTS FOR SAMPLES TAKEN FROM MONITORED DRAIN LINE SYSTEM HOLDING TANKS

Activity Distribution

SAMPLE NUMBER	U-234 pCi/gm	U-235 pCi/gm	U-238 pCi/gm	U-233 pCi/gm	U-TOTAL pCi/gm	RATIO U-TOT/U-235
91-1924	1550	514	17	8	2089	4.1
91-1925	19400	321	79	46	19846	61.8
91-1926	4200	52	1	6	4259	81.9
91-1933	301	11	1	2	315	27.9
AVERAGE	6363	225	25	15	6627	29.5

Isotopic Distribution (Weight Percent)

SAMPLE NUMBER	U-234	U-235	U-238	U-233	U-TOTAL
91-1924	0.09%	82.38%	17.53%	0.0003%	100.0%
91-1925	0.80%	38.40%	60.80%	0.0013%	100.0%
91-1926	2.33%	83.25%	14.42%	0.0021%	100.0%
91-1933	0.51%	55.36%	44.12%	0.0019%	100.0%
AVERAGE	0.93%	64.85%	34.22%	0.0014%	100.0%

CARRIER/DRIVER INSTRUCTIONS

CHECK APPLICABLE

- A. The shipping documents attached to this form contain the information prescribed by DOT regulations for a shipment of Radioactive Materials. These documents must accompany all carriers of this shipment.
- B. Vehicle Carrying Radioactive Materials (EXCLUSIVE USE)
  - 1. Under "EXCLUSIVE USE PROVISIONS" you will conform to the requirements specified in the attached Exclusive Use form.
- C. Vehicle Carrying Radioactive Materials (NOT EXCLUSIVE USE)
  - 1. With the addition of this shipment the total transport index on your vehicle does not exceed 50.
- D. All Drivers Carrying Radioactive Materials
  - 1. You have inspected the load and agree that it is properly secured against movement.
  - 2. Proper Packaging, Marking, Labeling, and Shippers Certification is indicated on the attached Shipping Papers.
  - 3. Package marking or labeling, if necessary, is provided and affixed by the shipper. The carrier is responsible for replacing any labels that are lost or damaged.
  - 4. Vehicle placarding, if necessary, is provided and affixed by the shipper. The carrier is responsible for replacing any placards that are lost or damaged.
  - 5. You are advised that certain shipments of Radioactive Materials cannot be transported thru or on certain highway facilities, i.e., tunnels, bridges, toll roads, etc.
  - 6. In case of fire, accident, breakage or suspected radioactive contamination, you are required to immediately notify the following:  
 Shipper - J. T. Flanigan 412-374-4651 or 412-446-9917  
           or A. J. Nardi 412-374-4652 or 412-421-5243  
 Department of Transportation 202-426-1830
  - 7. For Radioactive Assistance, you may contact the nearest Regional Coordinating office of the U.S. Department of Energy.

E. Driver Qualification

- 1. You have been informed that the Federal Motor Carrier Regulations (DOT) require specific Driver Qualifications, if not exempted, for carriers of Hazardous Materials.

VEHICLE DRIVER'S ACKNOWLEDGMENT

COMPANY Forest Hills Transfer DATE OF SHIPMENT 7-28-93

COPY: DRIVER

HEALTH PHYSICS

\*\*\*\*\*  
\* RADIOACTIVE SHIPMENT RECORD \*  
\* INSTRUCTION TO CARRIER FOR \*  
\* MAINTENANCE OF \*  
\* EXCLUSIVE USE SHIPMENT CONTROLS \*  
\*\*\*\*\*



Westinghouse Electric Corporation  
Advanced Energy Systems  
811 Route 51 South  
Large, PA 15025

PAGE 7 OF 10 PAGES

You are advised per these instructions to transport the items defined on the attached shipping documents under "EXCLUSIVE USE" provisions.

"Exclusive use" (also referred to in other regulations as "sole use" or "full load") means the sole use of a conveyance by a single consignor and for which all initial, intermediate, and final loading and unloading are carried out in accordance with the direction of the consignor or consignee. Any loading or unloading must be performed by personnel having radiological training and resources appropriate for safe handling of the consignment. Specific instructions for maintenance of exclusive use shipment controls must be issued in writing and include with the shipping paper information provided to the carrier by the consignor.

**Special Remarks Concerning Exclusive Use**  
(To be provided by shipper as may be appropriate)

For All Shipments

- Avoid unnecessary delays
- Do not transfer shipment from originating carrier vehicle \*
- Do not change the loading pattern within the vehicle
- Notify shipper if replacement tractor is used
- Do not load other packages on originating carrier vehicle
- Deliver shipment directly to consignee
- Survey vehicle per 177.843

For Package(s) Exceeding 200 mr/hr

- Closed transport vehicle
- No loading or unloading
- Package(s) secured and fixed

\* If transfer from originating carrier vehicle is necessary, or if a replacement tractor is used, then maintenance of exclusive use provisions, including adherence to prescribed radiation levels, are required for each subsequent carrier vehicle.

NOTICE TO CARRIER - If you do not understand your responsibility for maintenance of Exclusive Use controls call the shipper.



RADIOACTIVE SHIPMENT - SURVEY SHEET

Shipment Log No. \_\_\_\_\_

Date 7-28-93

Incoming Survey\* \_\_\_\_\_ Outgoing Survey

Time 08<sup>00</sup>

Vehicle Empty \_\_\_\_\_ Vehicle Loaded

Surveyed By J. Flanigan

Material Being Shipped \_\_\_\_\_

Vehicle License No. Tractor AA18269 Trailer-TZ

Contaminated Storage Tanks

Tractor No. "D" 10 Trailer No. 36 <sup>78345</sup>

Instruments Used Ecolume E-520 HP270 Pro.

Carrier F.H. Transfer

Driver [Signature]

Type of Vehicle Flat Bed

Bed Constructed of (material) Wood

Radiation Readings (mR/h)

Contamination Levels (d/m/100cm<sup>2</sup>)

Cab \_\_\_\_\_

Cab \_\_\_\_\_

Load-Bearing Surfaces <.05

Load-Bearing Surfaces \_\_\_\_\_

Surface of Package <.05

Surface of Package \_\_\_\_\_

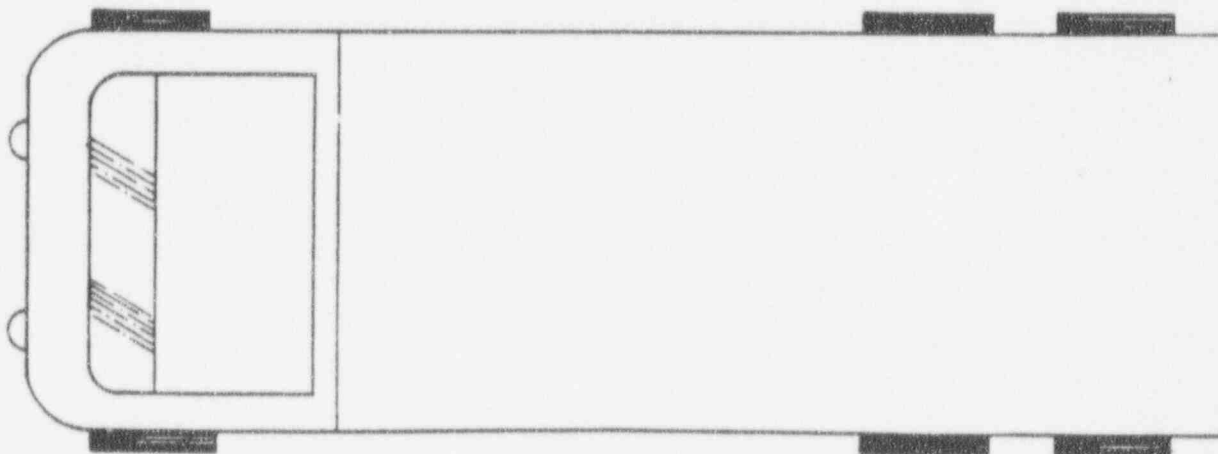
3 Feet from Package <.05

Tiedowns \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Remarks \_\_\_\_\_



\*Received By \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_  
(Signature of Receiver)

Remarks \_\_\_\_\_

IB 14003

① MONTH 05 DAY 28 YEAR 93

② DESCRIPTION

Radioactive Waste Decontamination Disposal & Transportation

③ TOTAL ESTIMATED VALUE

DIVISION NMD

④ DEPARTMENT E&RS

⑤ DELIVERY LOCATION Large, PA

⑦ INTERNAL DELIVERY INSTRUCTIONS

⑧ MAT'L REQ'D / EXP DATE

④ REQUISITIONER NAME, LOCATION, PHONE  
J. T. Flanigan - EC E-268, 284-4647

FUNDING SOURCE CUSTOMER WESTINGHOUSE

⑥ CHARGE ACCOUNT 9054Z-51Z036-81/E3

② GOVERNMENT CONTRACT NO. N/A

③ GOVT PRIORITY N/A

④ GENERAL ORDER

⑤ PROJECT

TAX CODE

⑥ COST CODE

⑥ COMMODITY CODE

⑩ DOES 10CFR21 APPLY TO THIS ORDER?  YES  NO

⑩ QA SIGNATURE, IF REQUIRED

⑩ QA REVIEW REQUIRED?  YES  NO

TECHNICAL AND QUALITY STD NOTE CODES  
See ALARON Proposal

⑩ ADDITIONAL TECHNICAL AND QUALITY REQUIREMENTS  
This P.O. is issued to cover transportation to the ALARON facility at Wampum, PA for decontamination of 4 steel tanks and disposal of residual radioactive waste. The tanks are located at the Westinghouse Large Site.

REQUISITIONER SUGGESTED SUPPLIER/ INTERNAL NOTES  
ALARON Corporation  
Northeast Regional Office  
3708 Fourth Avenue  
Beaver Falls, PA 15010  
Phone: (412) 847-6210  
ATTN: Timothy A. Blythe

NOTE: SINGLE/SOLE SOURCE PROCUREMENTS OVER \$10,000 REQUIRE JUSTIFICATION LETTER

ITEM NO.	QUANTITY	UM	ESTIMATED UNIT PRICE	ESTIMATED LINE AMOUNT

CONTINUED YES  NO

GENERAL ORDER

⑪ WESTINGHOUSE PART NUMBER

⑫ VENDOR PART NO.

⑬ REQUIRED DATE

⑭ INTERNAL DELIVERY INSTRUCTIONS

DESCRIPTION

⑮ DELIVERY LOC

⑯ PROJECT

ITEM NO.	QUANTITY	UM	ESTIMATED UNIT PRICE	ESTIMATED LINE AMOUNT

CHARGE ACCOUNT

GENERAL ORDER

⑪ WESTINGHOUSE PART NUMBER

⑫ VENDOR PART NO.

⑬ REQUIRED DATE

⑭ INTERNAL DELIVERY INSTRUCTIONS

DESCRIPTION

⑮ DELIVERY LOC

⑯ PROJECT

⑰ APPROVAL SIGNATURES (Dollar Limits will vary with type of Procurement -- Requisitioner to check Limits of Authority)

PRINT NAME - SIGN AND DATE BELOW	① REQUISITIONER/DATE J. T. Flanigan 5-28-93	② BUDGET SHOP ORDER HOLDER/DATE A. T. Sabo AT Sabo 5-28-93	③ REQUISITIONING MGR/DATE (3RD FINANCIAL LEVEL OR HIGHER)	④ AUTHORIZING MGR/DATE (PER LOA)	⑤ CORPORATE APPROVAL (IF REQUIRED)
----------------------------------	---	---	---	----------------------------------	------------------------------------

REQUISITIONER MUST OBTAIN APPROVAL SIGNATURES PER DIV. LIMITS OF AUTHORITY PRIOR TO FORWARDING THIS REQUISITION TO PURCHASING



1 SHIPPER'S RIS YLZ	2 RECEIVER'S RIS DIV	3 TRANSACTION NO	4 CONNECTION NO	5 PROCESSING CODE	6 RESERVED	7 ACTION CODE	8 DATA CODE	9 DOCUMENTATION CODE	10 PAGE 1 OF 1 PAGES	11 COPY OF	12 COPIES SERIES	
13 A NAME AND ADDRESS OF SHIPPER Westinghouse Electric Corporation AESD P. O. Box 10864 Pittsburgh, PA 15236 ATTENTION: A.J. Nardi 412/374-4652		13 B NAME AND ADDRESS OF RECEIVER Alaron Corporation Northeast Regional Office 3708 Fourth Avenue E Beaver Falls, PA 15010 412/ ATTENTION: Timothy Blythe 847-6210		14 NO OF DATA LINES 04		15 NATURE OF TRANSACTION N		16 A SHIPPED FOR ACCOUNT OF		16 B SHIPPED TO ACCOUNT OF		17 DISTRIBUTION OF COPIES
18 TRANSFER AUTHORITY - CONTRACT, NO DRAFT, OR ORDER NUMBER			19 EXPORT OR IMPORT TRANSFER			20 MATERIAL TYPE AND DESCRIPTION Four (4) Carbon Steel Tanks contaminated with enriched uranium.			21 A MISCELLANEOUS Exclusive use of vehicle.			
22 TRANSPORTATION PROFILE				23 PACKAGE IDENTIFICATION				24 ACTION DATE				
25 TOTAL GROSS WEIGHT (KG)				26 TOTAL VOLUME (Other Transfer Only) (L)								

LINE NO	ITEM NO	IDENTIFICATION (BATCH NAME)	NO. OF ITEMS	PROJECT NUMBER	MFG FAC	COMP FACILITY CODE	COUNTRY CONTROL NUMBER	ISOTOPES			GROSS WEIGHT	NET WEIGHT	ELEMENT WEIGHT	ELEMENT WEIGHT OF ENRICHED ISOTOPE	WEIGHT % ISOTOPE	ISOTOPE WEIGHT	ISOTOPE WEIGHT %
								U-235	U-238	PLUTONIUM							
01		T-1	01		20	G01	J	USUS0000				3200	3200	36		64.85	23
02		T-2	01		20	G01	J	USUS0000				3200	3200	36		64.85	23
03		T-3	01		20	G01	J	USUS0000				3200	3200	36		64.85	23
04		T-4	01		20	G01	J	USUS0000				1200	1200	1		64.85	1

27 SHIPPER'S DATA A. J. Nardi 7/28/93 <i>Alexander Nardi</i> C33129										28 RECEIVER'S DATA									
SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED (See instructions for previous reporting instructions)																			
SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED (See instructions for previous reporting instructions)																			

APPENDIX D

SHIPMENT RECORDS FOR DRUMS AND BINS



This Memorandum is an acknowledgment that a bill of lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein  
 RECEIVED: subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading

FORM 46256-A (4-64) **RAM**

OUR ORDER NO. MB14014R SHIPPER'S NO. (SHOW THESE NUMBERS ON FRT. BILL) \_\_\_\_\_ FROM Westinghouse Electric Corporation  
 AT (PICK-UP POINT) Large PA  
 CUST. ORDER NO. \_\_\_\_\_ DATE \_\_\_\_\_ MAIL FREIGHT BILLS TO (POST OFFICE ADDRESS) \_\_\_\_\_

CONSIGNEE TO (Mail or street address of consignee - For purposes of notification only)  
Hiaron Corp.  
Wampum PA

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 at 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 Street 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.

ROUTE Att John Joos

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 consignee, the consignee shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.  
 If charges are to be prepaid, write or stamp here "To be Prepaid."  
 For WESTINGHOUSE ELECTRIC CORPORATION Signature of Consignor \_\_\_\_\_

CAR OR VEHICLE INITIAL AND NO. \_\_\_\_\_ DELIVERING CARRIER Kiadrick Tracking Co

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 \_\_\_\_\_

NO. PKGS.	THM	CLASSIFICATION DESCRIPTION [Hazardous Material Use D.O.T. Description & Class, No Abbreviations]	WEIGHT SUB. TO CAR.
50	✓	Radioactive Material LSA nos UN 2912 Uranium 235 Physical Form: Solid, Chemical Form: Oxide, Quantity 50gms/ 4.73 milliCuries Carrier please note: All <u>13</u> pages of the attached shipping documents must accompany this shipment to destination and must be given to consignee. Page <u>1</u> of <u>13</u> Pages.	47,874

THM 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 Type \_\_\_\_\_

Westinghouse Electric Corporation Shipper, Per J. Hangan

Carrier, Per Donald Wilson

\* CARRIER: RETURN THIS MEMORANDUM COPY WITH YOUR FREIGHT BILL.

MEMORANDUM 2

.....  
 \* RADIOACTIVE SHIPMENT RECORD \*  
 SUMMARY  
 .....

OM: Westinghouse Electric Corporation  
 Advanced Energy Systems  
 811 Route 51 South  
 Large, PA 1502

SHIPMENT DATE 9-21-93  
 CONSIGNEE LICENSE NRC 37-20826-02  
 ON FILE  REQUESTED

TO: ALARON Corp.  
Wampum Pa

ATTENTION: John Leas

<p>SHIPPING NAME  <input type="checkbox"/> RADIOACTIVE MATERIAL</p> <p>INSTRUMENTS AND ARTICLES <input type="checkbox"/> UN 2911        n.o.s. <input type="checkbox"/> UN 2982        U.S.A., n.o.s. <input checked="" type="checkbox"/> UN 2912        LIMITED QUANTITY, n.o.s. <input type="checkbox"/> UN 2910        SPECIAL FORM, n.o.s. <input type="checkbox"/> UN 2974        FISSILE, n.o.s. <input type="checkbox"/> UN 2918        EMPTY PACKAGES <input type="checkbox"/> UN 2908</p> <p>HAZARD CLASS  <input type="checkbox"/> RADIOACTIVE MATERIAL</p>	<p>I.D. NO. <input type="checkbox"/></p> <p>FORM - QUANTITY - CLASS</p> <p>CHEMICAL FORM <u>Oxide</u>        PHYSICAL FORM: SOLID <input checked="" type="checkbox"/> LIQUID <input type="checkbox"/> GAS <input type="checkbox"/>        NORMAL FORM <input type="checkbox"/> SPECIAL FORM <input type="checkbox"/>        NUCLIDES <u>235U</u>        MILLICURIES <u>4.73</u>        QUANTITY: LTD.QTY. <input checked="" type="checkbox"/> LSA TYPE A <input type="checkbox"/> &gt; TYPE A <input type="checkbox"/>        GRAMS OF FISSILE <u>50</u>        FISSILE CLASS: I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/>        NONE <input type="checkbox"/> EXEMPT <input checked="" type="checkbox"/>        MATERIAL DESCRIPTION <u>Contaminated Waste</u></p>	<p>PACKAGES NUMBER OF PACKAGES</p> <p>TYPE A <input type="checkbox"/> TYPE B <input type="checkbox"/> STRONG / TIGHT <input checked="" type="checkbox"/>        DOT SPEC. NO. <u>N/A</u>        EXEMPTION NO. <u>N/A</u>        GROSS WEIGHT # (OR VOLUME) <u>930 ft<sup>3</sup></u>        SEAL: YES <input type="checkbox"/> NO <input type="checkbox"/> SEAL NO. _____</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>YES</td> <td>NO</td> </tr> <tr> <td>SHIPPING NAME &amp; I.D.</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>CONSIGNEE</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>P M DOT SPEC. NO.</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>C R CERTIFIED ADDRESS</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>K K THIS SIDE UP</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>G B &gt;110 #</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>RADIOACTIVE - LSA</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>INSIDE RADIOACTIVE</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>		YES	NO	SHIPPING NAME & I.D.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CONSIGNEE	<input type="checkbox"/>	<input type="checkbox"/>	P M DOT SPEC. NO.	<input type="checkbox"/>	<input type="checkbox"/>	C R CERTIFIED ADDRESS	<input type="checkbox"/>	<input type="checkbox"/>	K K THIS SIDE UP	<input type="checkbox"/>	<input type="checkbox"/>	G B >110 #	<input type="checkbox"/>	<input type="checkbox"/>	RADIOACTIVE - LSA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	INSIDE RADIOACTIVE	<input type="checkbox"/>	<input type="checkbox"/>	<p>LABELING</p> <p>WHITE I <input type="checkbox"/> EMPTY <input type="checkbox"/>        YELLOW II <input type="checkbox"/> CARGO AIRCRAFT ONLY <input type="checkbox"/>        YELLOW III <input type="checkbox"/> NO LABELS REQUIRED <input checked="" type="checkbox"/></p> <p>PLACARD VEHICLE YES <input checked="" type="checkbox"/> NO <input type="checkbox"/></p> <p>SHIPMENT / PACKAGE TRANSPORT INDEX <input type="checkbox"/></p> <p>EXCLUSIVE USE VEHICLE</p> <p>SEAL: YES <input checked="" type="checkbox"/> SEAL NO. _____        NO <input type="checkbox"/></p> <p>CAB <u>&lt;.05</u> mr/hr        VEHICLE <u>&lt;.05</u> mr/hr        2 METER <u>&lt;.05</u> mr/hr</p>																																
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<p>TRANSPORT MODES</p> <p>COMPANY VEHICLE <input type="checkbox"/>        HIGHWAY CARRIER <input checked="" type="checkbox"/>        AIR CARGO <input type="checkbox"/>        AIR PASSENGER <input type="checkbox"/>        VESSEL <input type="checkbox"/>        POSTAL <input type="checkbox"/></p>	<p>SPECIAL FORMS</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>YES</th> <th>NO</th> <th>FORMS ATTACHED</th> </tr> </thead> <tbody> <tr> <td>MORE THAN (1) PACKAGE:</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td>FORM 1052 <input type="checkbox"/></td> </tr> <tr> <td>DRIVER INSTRUCTIONS:</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td>FORM 1053 <input type="checkbox"/></td> </tr> <tr> <td>EXCLUSIVE USE:</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td>FORM 1054 <input type="checkbox"/></td> </tr> <tr> <td>EXCEPTED QUANTITY:</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>FORM 1055 <input type="checkbox"/></td> </tr> <tr> <td>PART 71 APPLIES:</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>FORM <input type="checkbox"/></td> </tr> <tr> <td>SPECIAL UNLOADING INSTRUCTION</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>FORM <input type="checkbox"/></td> </tr> <tr> <td>AUTHORIZATION:</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>FORM <input type="checkbox"/></td> </tr> <tr> <td>AIR TRANSPORT AUTHORIZED</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>EXTRA RSR <input type="checkbox"/></td> </tr> </tbody> </table>		YES	NO	FORMS ATTACHED	MORE THAN (1) PACKAGE:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FORM 1052 <input type="checkbox"/>	DRIVER INSTRUCTIONS:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FORM 1053 <input type="checkbox"/>	EXCLUSIVE USE:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FORM 1054 <input type="checkbox"/>	EXCEPTED QUANTITY:	<input type="checkbox"/>	<input type="checkbox"/>	FORM 1055 <input type="checkbox"/>	PART 71 APPLIES:	<input type="checkbox"/>	<input type="checkbox"/>	FORM <input type="checkbox"/>	SPECIAL UNLOADING INSTRUCTION	<input type="checkbox"/>	<input type="checkbox"/>	FORM <input type="checkbox"/>	AUTHORIZATION:	<input type="checkbox"/>	<input type="checkbox"/>	FORM <input type="checkbox"/>	AIR TRANSPORT AUTHORIZED	<input type="checkbox"/>	<input type="checkbox"/>	EXTRA RSR <input type="checkbox"/>	<p>OR NA</p> <p>RAM WASTE CHECKS <input checked="" type="checkbox"/> SHIPPERS QUALITY ASSURANCE CHECK <input type="checkbox"/> BRACING &amp; SHORING <input checked="" type="checkbox"/>        VISUAL TRL CHECKS <input checked="" type="checkbox"/> CONVEYANCE AND LOAD <input type="checkbox"/> PACKAGES - SECURED <input checked="" type="checkbox"/>        VISUAL TRACTOR CKS <input checked="" type="checkbox"/> PACKAGES - CONDITION <input checked="" type="checkbox"/></p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">RADIATION SURVEY</th> <th colspan="2">MATERIAL UNSHIELDED</th> <th colspan="3">OUTSIDE CONTAINER</th> <th>INSIDE PKG. CONTAMINATION</th> </tr> <tr> <th>PKG NO.</th> <th>CONTAINER DESCRIPTION</th> <th>CONTACT (mr/hr)</th> <th>1 METER (mr/hr)</th> <th>CONTACT (mr/hr)</th> <th>1 METER (mr/hr)</th> <th>SHEAR (dpm/100cm<sup>2</sup>)</th> <th>dpm/100cm<sup>2</sup> FT</th> </tr> </thead> <tbody> <tr> <td align="center" colspan="8"><u>See Attached</u></td> </tr> </tbody> </table>	RADIATION SURVEY		MATERIAL UNSHIELDED		OUTSIDE CONTAINER			INSIDE PKG. CONTAMINATION	PKG NO.	CONTAINER DESCRIPTION	CONTACT (mr/hr)	1 METER (mr/hr)	CONTACT (mr/hr)	1 METER (mr/hr)	SHEAR (dpm/100cm <sup>2</sup> )	dpm/100cm <sup>2</sup> FT	<u>See Attached</u>							
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<p>THIS SHIPMENT IS WITHIN THE LIMITS DESCRIBED FOR PASSENGER / CARGO AIR ONLY: YES <input type="checkbox"/> NO <input type="checkbox"/></p>				<p>APPROVALS: ORIGINATOR <u>[Signature]</u> HEALTH PHYSICS <u>[Signature]</u> DATE <u>9-21-93</u></p>																																																										

(18) ITEM NO	(17) RADIO NUCLIDE CONTAINER	(12) PERCENT OF ACTIVITY WITHOUT FACTOR	(11) PHYSICAL FORM	(10) CHEMICAL FORM AND NAME & % OF CHELATING AGENT	(9) WASTE DESCRIPTION	(8) WASTE FORM CLASS	(7) SPECIAL NUCLEAR MATERIAL (SNM)	(6) SOURCE MATERIAL	(5) CONTAINER WEIGHT (LBS.)	(4) CONTAINER VOLUME (GAL.)	(3) CONTAINER TYPE	DEPOSITOR CONTAINER		(2) CONTAMINATION SURFACE (DPM/100 CM <sup>2</sup> )	(1) FISSILE CLASS	(0) LABELS MAINTAINED USED
												RADIATION LEVELS (MREM)	RADIATION LEVELS (MREM)			
13243	U-235	67.75	Solid Oxide		Metal Pipe + Handwipes	A	*	N/A	5500	100	B-X	.01	<10	<200	Radioactive - LSA	
13244	U-235	"	Solid Oxide		Metal Pipe + Handwipes	A	*	N/A	3080	100	B-X	.01	<10	<200	Radioactive - LSA	
14265	U-235	"	Solid Oxide		Metal Pipe + Handwipes	A	*	N/A	5750	100	B-X	.01	<10	<200	Radioactive - LSA	
14266	U-235	"	Solid Oxide		Metal Pipe + Handwipes	A	*	N/A	5200	100	B-X	.02	<10	<200	Radioactive - LSA	
14267	U-235	"	Solid Oxide		Metal Pipe + Handwipes	A	*	N/A	5000	100	B-X	.02	<10	<200	Radioactive - LSA	
14268	U-235	"	Solid Oxide		Metal Pipe + Handwipes	A	*	N/A	3450	100	B-X	.02	<10	<200	Radioactive - LSA	
14269	U-235	"	Solid Oxide		Metal Pipe + Handwipes	A	*	N/A	3060	100	B-X	.02	<10	<200	Radioactive - LSA	
14270	U-235	"	Solid Oxide		Pipe Chase Diat + Debris	A	*	N/A	416	8	B-X	.02	<10	<200	Radioactive - LSA	
14271	U-235	"	Solid Oxide		Pipe Chase Diat + Debris	A	*	N/A	150	8	B-X	.02	<10	<200	Radioactive - LSA	
14272	U-235	"	Solid Oxide		Pipe Chase Diat + Debris	A	*	N/A	600	8	B-X	.02	<10	<200	Radioactive - LSA	
14273	U-235	"	Solid Oxide		Pipe Chase Diat + Debris	A	*	N/A	201	8	B-X	.02	<10	<200	Radioactive - LSA	
14274	U-235	"	Solid Oxide		Pipe Chase Diat + Debris	A	*	N/A	670	8	B-X	.02	<10	<200	Radioactive - LSA	
14275	U-235	"	Solid Oxide		Pipe Chase Diat + Debris	A	*	N/A	331	8	B-X	.02	<10	<200	Radioactive - LSA	
14276	U-235	"	Solid Oxide		Pipe Chase Diat + Debris	A	*	N/A	226	8	B-X	.02	<10	<200	Radioactive - LSA	
14277	U-235	"	Solid Oxide		Pipe Chase Diat + Debris	A	*	N/A	146	8	B-X	.02	<10	<200	Radioactive - LSA	
14278	U-235	"	Solid Oxide		Pipe Chase Diat + Debris	A	*	N/A	325	8	B-X	.02	<10	<200	Radioactive - LSA	
14279	U-235	"	Solid Oxide		Pipe Chase Diat + Debris	A	*	N/A	565	8	B-X	.02	<10	<200	Radioactive - LSA	
14280	U-235	"	Solid Oxide		Pipe Chase Diat + Debris	A	*	N/A	497	8	B-X	.02	<10	<200	Radioactive - LSA	
14281	U-235	"	Solid Oxide		Pipe Chase Diat + Debris	A	*	N/A	395	8	B-X	.02	<10	<200	Radioactive - LSA	
14282	U-235	"	Solid Oxide		Pipe Chase Diat + Debris	A	*	N/A	157	8	B-X	.02	<10	<200	Radioactive - LSA	
14283	U-235	"	Solid Oxide		Pipe Chase Diat + Debris	A	*	N/A	415	8	B-X	.02	<10	<200	Radioactive - LSA	
14284	U-235	"	Solid Oxide		Pipe Chase Diat + Debris	A	*	N/A	430	8	B-X	.02	<10	<200	Radioactive - LSA	
14285	U-235	"	Solid Oxide		Pipe Chase Diat + Debris	A	*	N/A	457	8	B-X	.02	<10	<200	Radioactive - LSA	
14286	U-235	"	Solid Oxide		Pipe Chase Diat + Debris	A	*	N/A	227	8	B-X	.02	<10	<200	Radioactive - LSA	
14287	U-235	"	Solid Oxide		Pipe Chase Diat + Debris	A	*	N/A	396	8	B-X	.02	<10	<200	Radioactive - LSA	
14288	U-235	"	Solid Oxide		Pipe Chase Diat + Debris	A	*	N/A	400	8	B-X	.02	<10	<200	Radioactive - LSA	
14289	U-235	"	Solid Oxide		Pipe Chase Diat + Debris	A	*	N/A	800	8	B-X	.02	<10	<200	Radioactive - LSA	
14290	U-235	"	Solid Oxide		Pipe Chase Diat + Debris	A	*	N/A	490	8	B-X	.02	<10	<200	Radioactive - LSA	
PAGE TOTALS												8.45				

\* Less Than 1gms

(20) ITEM NO.	(21) RADIO NUCLEIDE EACH CONTAINER	(22) PERCENT OF ACTIVITY OR WGT. OF EACH NUCLEIDE	(23) ACTIVITY OR WGT. OF EACH CONTAINER	(24) PHYSICAL FORM	(25) CHEMICAL NAME AND CHEMICAL AGENT	(26) WASTE DESCRIPTION	(27) WASTE FORM CLASS	(28) SPECIAL NUCLEAR MATERIAL (SPECIAL)	(29) SOURCE MATERIAL (SPECIAL)	(30) CONTAINER WEIGHT (GROSS)	(31) CONTAINER VOLUME (GAL)	(32) CONTAINER TYPE	(33) DISPOSAL CONTAINER		(34) CONTAMINATION SURFACE (DPM/100 CM <sup>2</sup> )	(35) FISSILE CLASS	(36) LABELS/ MARKINGS USED			
													(33a) RADIATION SURFACE (MREM/HR)	(33b) RADIATION SURFACE (MREM/HR)						
57	U-235	11	22	Solid	Oxide	Met Debris from Tank Spooling	A	1 gm	N/A	300	8	HAZAR	0.02	0.02	510	LSA	Radioactive - LSA			
58	U-235	11	9	Solid	Oxide	Excess Waste from Plastic	A	*	N/A	160	8	"	0.02	0.02	510	LSA	Radioactive - LSA			
59	U-235	11	20	Solid	Oxide	Plastic Fuel Lines	A	*	N/A	260	8	"	0.02	0.02	510	LSA	Radioactive - LSA			
60	U-235	11	1	Solid	Oxide	Scrap pipe	A	*	N/A	150	8	"	0.02	0.02	510	LSA	Radioactive - LSA			
61	U-235	11	16	Solid	Oxide	Catch basin sludge debris	A	*	N/A	580	8	"	0.02	0.02	510	LSA	Radioactive - LSA			
62	U-235	11	68	Solid	Oxide	Catch basin debris	A	1	N/A	510	8	"	0.02	0.02	510	LSA	Radioactive - LSA			
63	U-235	11	29	Solid	Oxide	Catch basin debris	A	1	N/A	620	8	"	0.02	0.02	510	LSA	Radioactive - LSA			
64	U-235	11	38	Solid	Oxide	Catch basin debris	A	1	N/A	580	8	"	0.02	0.02	510	LSA	Radioactive - LSA			
65	U-235	11	35	Solid	Oxide	Catch basin debris	A	2	N/A	600	8	"	0.02	0.02	510	LSA	Radioactive - LSA			
66	U-235	11	28	Solid	Oxide	Catch basin debris	A	2	N/A	630	8	"	0.02	0.02	510	LSA	Radioactive - LSA			
67	U-235	11	12	Solid	Oxide	Stream sewer debris	A	*	N/A	780	8	"	0.02	0.02	510	LSA	Radioactive - LSA			
68	U-235	11	21	Solid	Oxide	Stream sewer debris	A	*	N/A	760	8	"	0.02	0.02	510	LSA	Radioactive - LSA			
69	U-235	11	12	Solid	Oxide	Stream sewer debris	A	*	N/A	800	8	"	0.02	0.02	510	LSA	Radioactive - LSA			
70	U-235	11	12	Solid	Oxide	Stream sewer debris	A	*	N/A	850	8	"	0.02	0.02	510	LSA	Radioactive - LSA			
71	U-235	11	12	Solid	Oxide	Stream sewer debris	A	*	N/A	760	8	"	0.02	0.02	510	LSA	Radioactive - LSA			
72	U-235	11	17	Solid	Oxide	Stream sewer debris	A	*	N/A	660	8	"	0.02	0.02	510	LSA	Radioactive - LSA			
73	U-235	11	14	Solid	Oxide	Stream sewer debris	A	*	N/A	625	8	"	0.02	0.02	510	LSA	Radioactive - LSA			
74	U-235	11	54	Solid	Oxide	Pool Sludge - Steam Sewer	A	*	N/A	650	8	"	0.02	0.02	510	LSA	Radioactive - LSA			
75	U-235	11	16	Solid	Oxide	Plastic debris	A	*	N/A	240	8	"	0.02	0.02	510	LSA	Radioactive - LSA			
76	U-235	11	27	Solid	Oxide	Catch basin debris	A	2	N/A	680	8	"	0.02	0.02	510	LSA	Radioactive - LSA			
													473							
													5							
													47,874							

PAGE TOTALS

\* Less than 1 gm.

CARRIER/DRIVER INSTRUCTIONS
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CHECK  
APPLICABLE

- A. The shipping documents attached to this form contain the information prescribed by DOT regulations for a shipment of Radioactive Materials. These documents must accompany all carriers of this shipment.
- B. Vehicle Carrying Radioactive Materials (EXCLUSIVE USE)
1. Under "EXCLUSIVE USE PROVISIONS" you will conform to the requirements specified in the attached Exclusive Use form.
- C. Vehicle Carrying Radioactive Materials (NOT EXCLUSIVE USE)
1. With the addition of this shipment the total transport index on your vehicle does not exceed 50.
- D. All Drivers Carrying Radioactive Materials
1. You have inspected the load and agree that it is properly secured against movement.
  2. Proper Packaging, Marking, Labeling, and Shippers Certification is indicated on the attached Shipping Papers.
  3. Package marking or labeling, if necessary, is provided and affixed by the shipper. The carrier is responsible for replacing any labels that are lost or damaged.
  4. Vehicle placarding, if necessary, is provided and affixed by the shipper. The carrier is responsible for replacing any placards that are lost or damaged.
  5. You are advised that certain shipments of Radioactive Materials cannot be transported thru or on certain highway facilities, i.e., tunnels, bridges, toll roads, etc.
  6. In case of fire, accident, breakage or suspected radioactive contamination, you are required to immediately notify the following:  
Shipper - J. T. Flanigan 412-374-4651 or 412-446-9917  
or A. J. Nardi 412-374-4652 or 412-421-5243  
Department of Transportation 202-426-1830
  7. For Radioactive Assistance, you may contact the nearest Regional Coordinating office of the U.S. Department of Energy.
- E. Driver Qualification
1. You have been informed that the Federal Motor Carrier Regulations (DOT) require specific Driver Qualifications, if not exempted, for carriers of Hazardous Materials.

VEHICLE DRIVER'S ACKNOWLEDGMENT

Darrell Wilson

COMPANY

Kendrick

DATE OF SHIPMENT

9-21-93

COPY: DRIVER

HEALTH PHYSICS



\*\*\*\*\*  
 \* RADIOACTIVE SHIPMENT RECORD \*  
 \* INSTRUCTION TO CARRIER FOR \*  
 \* MAINTENANCE OF \*  
 \* EXCLUSIVE USE SHIPMENT CONTROLS \*  
 \*\*\*\*\*

Westinghouse Electric Corporation  
 Advanced Energy Systems  
 811 Route 51 South  
 Large, PA 15025

PAGE 6 OF 13 PAGES

You are advised per these instructions to transport the items defined on the attached shipping documents under "EXCLUSIVE USE" provisions.

"Exclusive use" (also referred to in other regulations as "sole use" or "full load") means the sole use of a conveyance by a single consignor and for which all initial, intermediate, and final loading and unloading are carried out in accordance with the direction of the consignor or consignee. Any loading or unloading must be performed by personnel having radiological training and resources appropriate for safe handling of the consignment. Specific instructions for maintenance of exclusive use shipment controls must be issued in writing and include with the shipping paper information provided to the carrier by the consignor.

Special Remarks Concerning Exclusive Use  
 (To be provided by shipper as may be appropriate)

For All Shipments

- Avoid unnecessary delays
- Do not transfer shipment from originating carrier vehicle \*
- Do not change the loading pattern within the vehicle
- Notify Shipper if replacement tractor is used
- Do not load other packages on originating carrier vehicle
- Deliver shipment directly to consignee
- Survey vehicle per 177.843

For Package(s) Exceeding 200 mr/hr

- Closed transport vehicle
- No loading or unloading
- Package(s) secured and fixed

\* If transfer from originating carrier vehicle is necessary, or if a replacement tractor is used, then maintenance of exclusive use provisions, including adherence to prescribed radiation levels, are required for each subsequent carrier vehicle.

NOTICE TO CARRIER - If you do not understand your responsibility for maintenance of Exclusive Use controls call the shipper.



Westinghouse Electric Corporation  
Waltz Mill Site - Analytical Laboratory

REPORT

Request# 15094

TO: Joseph Nardi  
Environmental & Regulatory Affairs Received: 6/10/93  
Westinghouse Electric Corporation Reported: 7/21/93

-----  
[RESULTS OF ANALYSIS]

Lab Sample # 93-858  
-----

Westinghouse Large Site Tank  
Sample #769  
Sampled 6/10/93  
-----

(June 10, 1993)

NUCLIDE	pCi/gram +/-	2 sigma
Co-60	6.16E-01 +/-	4.2E-01
Cs-137	4.11E+00 +/-	8.8E-01
Nb-94	1.11E+00 +/-	6.6E-01
U-235	9.07E+02 +/-	6.0E+00
U-238	2.77E+02 +/-	1.0E+02
H-3	<1.5E+03	
C-14	<2.0E+03	
Fe-55	<1.4E+03	
Ni-63	<1.6E+02	
Sr-90	<5.4E+01	
Tc-99	<5.7E+01	
I-129	<1.4E+02	
Pu-238	5.97E+01 +/-	6.0E+00
Pu-239,240	1.82E+00 +/-	1.2E+00
Pu-241	<4.9E+01	
Am-241	<8.9E+00	
Cm-242	<1.1E+00	
Cm-243,244	1.90E+00 +/-	1.9E+00

-----  
Remarks:

References: Request# 15094  
Procedures: A-516,A-524,A-525,A-526,A-527,A-530,A-531,OI-86-4-C  
Analyst: WTF,FRC,MRK  
Page 1

Approved: *[Signature]*

TABLE 2

ANALYSIS OF ANALYTICAL RESULTS FOR SAMPLES TAKEN FROM MONITORED DRAIN LINE SYSTEM HOLDING TANKS

Activity Distribution

SAMPLE NUMBER	U-234 pCi/gm	U-235 pCi/gm	U-238 pCi/gm	U-233 pCi/gm	U-TOTAL pCi/gm	RATIO U-TOT/U-235
91-1924	1550	514	17	8	2089	4.1
91-1925	19400	321	79	46	19846	61.8
91-1926	4200	52	1	6	4259	81.9
91-1933	301	11	1	2	315	27.9
AVERAGE	6363	225	25	15	6627	29.5

Isotopic Distribution (Weight Percent)

SAMPLE NUMBER	U-234	U-235	U-238	U-233	U-TOTAL
91-1924	0.09%	82.38%	17.53%	0.0003%	100.0%
91-1925	0.80%	38.40%	60.80%	0.0013%	100.0%
91-1926	2.33%	83.25%	14.42%	0.0021%	100.0%
91-1933	0.51%	55.36%	44.12%	0.0019%	100.0%
AVERAGE	0.93%	64.85%	34.22%	0.0014%	100.0%



## SOUTH CAROLINA RADIOACTIVE WASTE TRANSPORT PERMIT

Pursuant to Act No. 429 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act, a Radioactive Waste Transport Permit is hereby issued to the below-named applicant (shipper). This Permit shall not, in itself, be construed as authorizing a shipper to dispose of radioactive waste within the State of South Carolina. This Permit shall not be transferred, assigned or in any manner disposed of, either voluntarily or involuntarily, directly, or indirectly, through transfer of control to any person, unless the Department shall, after securing full information, find the transfer is in accordance with the provisions of Act No. 429 and shall give written consent.

## 1. Name and Address of Applicant (Shipper):

Westinghouse Electric Corp.  
P.O. Box 355  
Pittsburgh, PA 15230

## 2. Permit Number:

1790-37-93

Non Restricted  
 Restricted

## Type:

X  
 Y  
 Z

## 3. Expiration Date:

December 31, 1993

Restricted

1993

## Permit Valid for Following Locations:

Transportation of waste into or within the State of South Carolina is restricted to the services of

Advanced Energy Systems  
811 Route 51 South  
Large, PA 15025

July 26, 1993  
Date of Issuance

For the South Carolina Department of  
Health and Environmental Control

By

*Virgil R. Autry*  
Virgil R. Autry, Director, Div. of  
Radioactive Waste Management

Page 9 of 13



RADIOACTIVE SHIPMENT - SURVEY SHEET

Shipment Log No. WASTE SHIPMENT #2

Date 9/21/93

Incoming Survey\* \_\_\_\_\_ Outgoing Survey X

Time 0930

Vehicle Empty \_\_\_\_\_ Vehicle Loaded X

Surveyed By [Signature]

Material Being Shipped RADIOACTIVE LSD

Vehicle License No. TN 0278985/TN D995 H2

Tractor No. K-939 Trailer No. R-845 LLTN-0001

Instruments Used E-520 #5242

Carrier KENDRICK TRUCKING CO

Driver DARRELY WILSON

Type of Vehicle Kenworth SEMI-TRLR OPEN TOP 48'

Bed Constructed of (material) ALUMINUM

Radiation Readings (mR/h)

Contamination Levels (d/m/100cm<sup>2</sup>)

Cab 4.02

Cab \_\_\_\_\_

Load-Bearing Surfaces 4.02

Load-Bearing Surfaces \_\_\_\_\_

Surface of Package 4.02

Surface of Package \_\_\_\_\_

3 Feet from Package 4.02

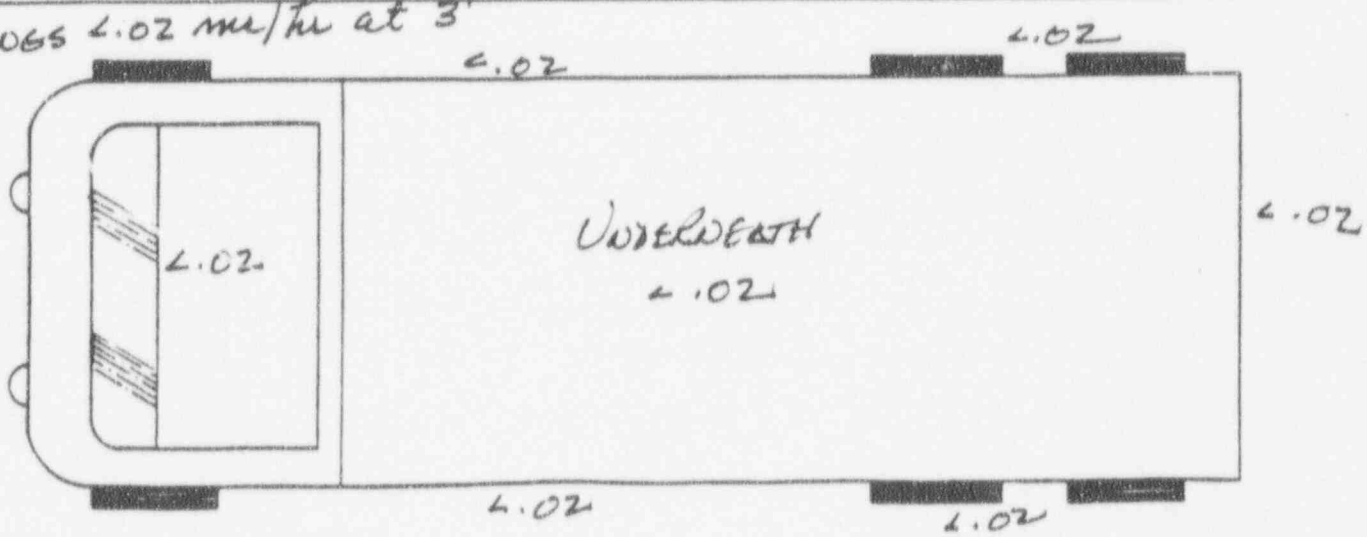
Tiedowns \_\_\_\_\_

Other NA

Other \_\_\_\_\_

Remarks \_\_\_\_\_

*All Readings 4.02 mR/h at 3'*



\*Received By \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_  
(Signature of Receiver)

Remarks \_\_\_\_\_

U.S. DEPARTMENT OF ENERGY AND U.S. NUCLEAR REGULATORY COMMISSION  
 NUCLEAR MATERIAL TRANSACTION REPORT

1. SHIPPER'S A/C	2. RECEIVER'S A/C	3. TRANSACTION NO.	4. CORRECTION NO.	5. PROCESSING CODE	6. RESERVED	7. ACTION CODE	8. DATA CODE	DOCUMENTATION ONLY (Document a standard SECRET)
YLZ	ZLJ	2				A		PAGE 1 OF 2 PAGES COPY OF COPIES SERIALIZED

9. NAME AND ADDRESS OF SHIPPER Westinghouse Electric Corporation VESD P.O. Box 10864 Pittsburgh, PA 15236 ATTENTION: A.J. Nardi, 712/374-4652	10. LICENSE NO. SNM-951	11. NAME AND ADDRESS OF RECEIVER Alaron Corporation Northeast Regional Office 3708 Fourth Avenue E Beaver Falls, PA 15010 412/ ATTENTION: Timothy Blythe 847-6210	12. LICENSE NO. 37-20826-02	13. NO. OF DATA LINES 27	14. NATURE OF TRANSACTION N	15. A. SHIPPED FOR ACCOUNT OF	16. B. SHIPPED TO ACCOUNT OF	17. C. SHIPPED TO ACCOUNT OF
--	-------------------------	--	-----------------------------	--------------------------	-----------------------------	-------------------------------	------------------------------	------------------------------

18. EXPORT OR IMPORT TRANSFER	19. EXPORT OR IMPORT TRANSFER	20. U.S. PORT OF ENTRY	21. TRANSPORTATION PROFILE	22. PACKAGE IDENTIFICATION	23. ACTION DATE	24. MONTH	25. DAY	26. YEAR
			A. CARRIER IDENTIFICATION	B. MODEL NO.	C. NUMBER	09	21	93

27. MATERIAL TYPE AND DESCRIPTION 44 Drums and 6 B-88's containing piping, soil, and dry active waste contaminated with enriched uranium.	28. A. MISCELLANEOUS Exclusive use of vehicle.	29. CONDUCT THIS TRANSACTION	30. CONDUCT THIS TRANSACTION	31. TOTAL GROSS WEIGHT (KGS)	32. TOTAL VOLUME (Liters) (Gals)
		Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	11,853	

LINE NO.	IDENTIFICATION (BATCH NAME)	NO. OF PDS	ISOTOPE	SUBJECT NUMBER	COUNTRY CONTROL NUMBER	REV. NO.	REASONS			GROSS WEIGHT (KG)	NET WEIGHT (KG)	ELEMENT WEIGHT (G)	ELEMENT LIGHT OF ELEMENT (G)	WEIGHT %	ISOTOPE WEIGHT (G)	REMARKS
							1	2	3							
01	D-12	01		20 G01	J USUS0000				416	416	1		64.85	1		
02	D-14	01		20 G01	J USUS0000				600	600	22		64.85	17		
03	D-18	01		20 G01	J USUS0000				670	670	2		64.85	2		
04	D-19	01		20 G01	J USUS0000				331	331	1		64.85	1		
05	D-28	01		20 G01	J USUS0000				366	366	1		64.85	1		
06	D-30	01		20 G01	J USUS0000				555	555	1		64.85	1		
07	D-32	01		20 G01	J USUS0000				395	395	1		64.85	1		
08	D-47	01		20 G01	J USUS0000				430	430	1		64.85	1		
09	D-50	01		20 G01	J USUS0000				457	457	12		64.85	9		

33. SHIPPER'S DATA A. J. Nardi 9/21/93 C33130	34. RECEIVER'S DATA
--	---------------------

SIGNATURE OF AUTHORIZED OFFICIAL AND DATE		SIGNATURE OF AUTHORIZED OFFICIAL AND DATE	

U.S. DEPARTMENT OF ENERGY AND U.S. NUCLEAR REGULATORY COMMISSION  
 NUCLEAR MATERIAL TRANSACTION REPORT

(Continuation Page)

U.S. DEPARTMENT OF ENERGY AND U.S. NUCLEAR REGULATORY COMMISSION  
 NUCLEAR MATERIAL TRANSACTION REPORT  
 (Continuation Page)

SHIPPER'S AGENCY	RECEIVER'S NAME	TRANSACTION NO.	CODE
VUZ	ZIJ	2	

LINE NO.	DATE	SHIPPER'S AGENCY	RECEIVER'S NAME	TRANSACTION NO.	CODE	PROJECT NUMBER	NO. OF TRANS.	UNIT	AMOUNT	COUNTRY OF ORIGIN	NET WEIGHT	ELEMENT WEIGHT	ELEMENT ID	ELEMENT QTY	WEIGHT	TYPE	REMARKS
10							01	01	20	US	227			1	64.85		
11							01	01	20	US	396			1	64.85		
12							01	01	20	US	400			1	64.85		
13							01	01	20	US	800			2	64.85		
14							01	01	20	US	490			1	64.85		
15							01	01	20	US	300			1	64.85		
16							01	01	20	US	510			2	64.85		
17							01	01	20	US	620			1	64.85		
18							01	01	20	US	580			1	64.85		
19							01	01	20	US	600			1	64.85		
20							01	01	20	US	630			1	64.85		
21							01	01	20	US	760			1	64.85		
22							01	01	20	US	650			1	64.85		
23							01	01	20	US	680			1	64.85		

WWW

C33130

SHIPPER'S DATA  
 A. J. Nardi  
 DATE: 9/21/93

U.S. DEPARTMENT OF ENERGY AND U.S. NUCLEAR REGULATORY COMMISSION  
 NUCLEAR MATERIAL TRANSACTION REPORT  
 (Continuation Page)

MB 14014

R 09 15 93

Radioactive Waste Disposal

④ DIVISION NMD		① DEPARTMENT E&RS		② DELIVERY LOCATION Large, PA		③ INTERNAL DELIVERY INSTRUCTIONS		④ MAT'L REG'D / EXP DATE MONTH DAY YEAR		⑤ REQUISITIONER NAME, LOCATION, PHONE J. Flanigan/A. J. Nardi - EC E-268	
⑥ FUNDING SOURCE CUSTOMER WESTINGHOUSE		⑦ CHARGE ACCOUNT 9054Z-51Z036-819 E3		⑧ GOVERNMENT CONTRACT NO. N/A		⑨ GOVT PRIORITY N/A		⑩ GENERAL ORDER		⑪ PROJECT [REDACTED]	
⑫ TAX CODE	⑬ COST CODE	⑭ PRI	⑮ COMMODITY CODE	⑯ DOES 10CFR21 APPLY TO THIS ORDER? <input type="checkbox"/> YES <input type="checkbox"/> NO		⑰ QA SIGNATURE, IF REQUIRED		⑱ PR2		⑲ REQUISITIONER SUGGESTED SUPPLIER/ INTERNAL NOTES	
				⑳ QA REVIEW REQUIRED? <input type="checkbox"/> YES <input type="checkbox"/> NO							

⑳ TECHNICAL AND QUALITY STD NOTE CODES See ALARON Proposal ALA-93-135		㉑ ADDITIONAL TECHNICAL AND QUALITY REQUIREMENTS This P.O. is issued to cover a complete service for the transportation, processing, decontamination, volume reduction and disposal of radioactive waste generated during the decommissioning of the Large, PA, site.									
---	--	---	--	--	--	--	--	--	--	--	--

ALARON Corporation  
 Northeast Regional  
 Office  
 3708 Fourth Avenue  
 Beaver Falls, PA 1501  
 Phone (412)847-6201

NOTE: SINGLE / SOLE SOURCE PROCUREMENTS OVER \$10,000 REQUIRE JUSTIFICATION LETTER

⑫ ITEM NO.	⑬ QUANTITY	⑭ UM	⑮ ESTIMATED UNIT PRICE	⑯ ESTIMATED LINE AMOUNT	⑰ REQUIRED DATE	⑱ CHARGE ACCOUNT

⑫ ITEM NO.	⑬ QUANTITY	⑭ UM	⑮ ESTIMATED UNIT PRICE	⑯ ESTIMATED LINE AMOUNT	⑰ REQUIRED DATE	⑱ CHARGE ACCOUNT

⑳ APPROVAL SIGNATURES (Dollar Limits will vary with type of Procurement — Requisitioner to check Limits of Authority)					
PRINT NAME - SIGN AND DATE BELOW	㉑ REQUISITIONER / DATE A. J. Nardi 9/15/93	㉒ BUDGET-BHOP ORDER HOLDER / DATE A. T. Sabo	㉓ REQUISITIONING MGR / DATE (PER FINANCIAL LEVEL OR HIGHER) [Signature]	㉔ AUTHORIZING MGR / DATE (PER LOA) [Signature]	㉕ CORPORATE APPROVAL (IF REQUIRED)

REQUISITIONER MUST OBTAIN APPROVAL SIGNATURES PER DIV. LIMITS OF AUTHORITY PRIOR TO FORWARDING THIS REQUISITION TO PURCHASER

COMPLETION INSTRUCTIONS PRINTED ON REVERSE SIDE OF PART 4.

APPENDIX E

SHIPMENT RECORDS FOR MIXED WASTE DRUMS



**STRAIGHT BILL OF LADING — SHORT FORM — Original — Not Negotiable**  
RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading.

FORM 46236A (1-14-61)

OUR ORDER NO. 5 I Z 036 SHIPPER'S NO. (SHOW THESE NUMBERS ON PRT. BILL) Westinghouse Electric Corporation  
 FROM Westinghouse Electric Corporation  
 AT (PICK-UP POINT) Lincoln PA  
 CUST. ORDER NO. \_\_\_\_\_ MAIL FREIGHT BILLS TO (POST OFFICE ADDRESS) \_\_\_\_\_

CONSIGNEE TO (Mail or street address of consignee—for purposes of notification only)  
Westinghouse Electric Corp.  
Walter Hill site  
Michison PA  
Att: Jim Puvrecka  
 ROUTE \_\_\_\_\_

CAR OR VEHICLE INITIAL AND NO. R-26 DELIVERING CARRIER Forest Hills Transfer  
 NO. PKGS. \_\_\_\_\_ CLASSIFICATION DESCRIPTION (In Hazardous Material Use DOT Description & Class. No Abbreviations)  
6 ✓ Radioactive Material, LSH, UN 2912  
UN 25, 6.134 cable type with shield,  
chemical form oxide, 0.06 mil thickness

NO. PKGS.	IHM	CLASSIFICATION DESCRIPTION (In Hazardous Material Use DOT Description & Class. No Abbreviations)	WEIGHT SUB. TO CAR.
6	✓	Radioactive Material, LSH, UN 2912 UN 25, 6.134 cable type with shield, chemical form oxide, 0.06 mil thickness	3100#

Carrier please note: All 5 pages of the attached shipping documents must accompany this shipment to destination and must be given to consignee. Page 1 of 5 Pages

IHM 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.

Westinghouse Electric Corporation Shipper, Per J. Puvrecka Carrier, Per W. Hill

The property described below, in apparent good order, except as noted (contents and condition 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 at its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each parcel, of all or any part 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 part of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Freight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rat or a rat-war 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 hereof, 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.

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 consignee, the consignee shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

If charges are to be prepaid, write in stamp here "To be Prepaid."

Per \_\_\_\_\_ Signatures of Consignor  
 WESTINGHOUSE ELECTRIC CORPORATION

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 \_\_\_\_\_

PLACARDS SUPPLIED OR APPLIED  Radioactive Type \_\_\_\_\_



\*\*\*\*\*  
 \* RADIOACTIVE SHIPMENT RECORD \*  
 \* SUMMARY \*  
 \*\*\*\*\*

FROM: Westinghouse Electric Corporation  
 Advanced Energy Systems  
 811 Route 51 South  
 Large, PA 15025

SHIPMENT DATE 9-23-93  
 CONSIGNEE LICENSE 5NM-770  
 ON FILE  REQUESTED

TO: Westinghouse Elec. Corp  
Waltz Mill Site  
Madison PA.  
 ATTENTION: Jim Dinicola

<p>SHIPPING NAME  <input type="checkbox"/> RADIOACTIVE MATERIAL</p>	<p>FORM - QUANTITY - CLASS</p> <p>CHEMICAL FORM <u>Oxide</u></p> <p>PHYSICAL FORM: SOLID <input checked="" type="checkbox"/> LIQUID <input type="checkbox"/> GAS <input type="checkbox"/></p> <p>NORMAL FORM <input type="checkbox"/> SPECIAL FORM <input type="checkbox"/></p> <p>NUCLIDES <u>235U, 137Cs, 5840Co</u></p> <p>MILLCURIES <u>0.06 / 0.005</u></p> <p>QUANTITY: LTD. QTY. <input type="checkbox"/> LSA <input checked="" type="checkbox"/>        TYPE A <input type="checkbox"/> &gt; TYPE A <input type="checkbox"/></p> <p>GRAMS OF FISSILE <u>0</u></p> <p>FISSILE CLASS: I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/>        NONE <input type="checkbox"/> EXEMPT <input type="checkbox"/></p> <p>MATERIAL DESCRIPTION <u>Cont. Soil + 1 Metal Box</u></p>	<p>PACKAGES NUMBER OF PACKAGES</p> <p>TYPE A <input type="checkbox"/> TYPE B <input type="checkbox"/> STRONG / TIGHT <input checked="" type="checkbox"/></p> <p>DOT SPEC. NO. <u>N/A</u></p> <p>EXEMPTION NO. <u>N/A</u></p> <p>GROSS WEIGHT # (OR VOLUME) <u>3100#</u></p> <p>SEAL: YES <input type="checkbox"/> NO <input type="checkbox"/> SEAL NO. _____</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th>YES</th> <th>NO</th> </tr> <tr> <td>SHIPPING NAME &amp; I.D.</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>CONSIGNEE</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>P# DOT SPEC. NO.</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>C# CERTIFIED ADDRESS</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>A# THIS SIDE UP</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>G# &gt;110 #</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>RADIOACTIVE - LSA</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>INSIDE RADIOACTIVE</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>		YES	NO	SHIPPING NAME & I.D.	<input type="checkbox"/>	<input type="checkbox"/>	CONSIGNEE	<input type="checkbox"/>	<input type="checkbox"/>	P# DOT SPEC. NO.	<input type="checkbox"/>	<input type="checkbox"/>	C# CERTIFIED ADDRESS	<input type="checkbox"/>	<input type="checkbox"/>	A# THIS SIDE UP	<input type="checkbox"/>	<input type="checkbox"/>	G# >110 #	<input type="checkbox"/>	<input type="checkbox"/>	RADIOACTIVE - LSA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	INSIDE RADIOACTIVE	<input type="checkbox"/>	<input type="checkbox"/>	<p>LABELING</p> <p>WHITE I <input type="checkbox"/> EMPTY <input type="checkbox"/></p> <p>YELLOW II <input type="checkbox"/> CARGO AIRCRAFT ONLY <input type="checkbox"/></p> <p>YELLOW III <input type="checkbox"/> NO LABELS REQUIRED <input checked="" type="checkbox"/></p> <p>PLACARD VEHICLE YES <input checked="" type="checkbox"/> NO <input type="checkbox"/></p> <p>SHIPMENT / PACKAGE TRANSPORT INDEX <u>0.09</u></p> <p>EXCLUSIVE USE VEHICLE</p> <p>SEAL: YES <input checked="" type="checkbox"/> SEAL NO. _____        NO <input type="checkbox"/></p> <p>CAB <u>&lt;.05</u> mr/hr        VEHICLE <u>&lt;.05</u> mr/hr        2 METER <u>&lt;.05</u> mr/hr</p>
	YES	NO																												
SHIPPING NAME & I.D.	<input type="checkbox"/>	<input type="checkbox"/>																												
CONSIGNEE	<input type="checkbox"/>	<input type="checkbox"/>																												
P# DOT SPEC. NO.	<input type="checkbox"/>	<input type="checkbox"/>																												
C# CERTIFIED ADDRESS	<input type="checkbox"/>	<input type="checkbox"/>																												
A# THIS SIDE UP	<input type="checkbox"/>	<input type="checkbox"/>																												
G# >110 #	<input type="checkbox"/>	<input type="checkbox"/>																												
RADIOACTIVE - LSA	<input checked="" type="checkbox"/>	<input type="checkbox"/>																												
INSIDE RADIOACTIVE	<input type="checkbox"/>	<input type="checkbox"/>																												
<p>HAZARD CLASS</p> <p><input type="checkbox"/> RADIOACTIVE MATERIAL</p>	<p>CLASS NUMBER</p> <p><u>7</u></p>																													

TRANSPORT MODES	SPECIAL FORMS			FORMS ATTACHED
		YES	NO	
COMPANY VEHICLE <input type="checkbox"/>	MORE THAN (1) PACKAGE:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FORM 1052 <input type="checkbox"/>
HIGHWAY CARRIER <input checked="" type="checkbox"/>	DRIVER INSTRUCTIONS:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FORM 1053 <input type="checkbox"/>
AIR CARGO <input type="checkbox"/>	EXCLUSIVE USE:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FORM 1054 <input type="checkbox"/>
AIR PASSENGER <input type="checkbox"/>	EXCEPTED QUANTITY:	<input type="checkbox"/>	<input type="checkbox"/>	FORM 1055 <input type="checkbox"/>
VESSEL <input type="checkbox"/>	PART 71 APPLIES:	<input type="checkbox"/>	<input type="checkbox"/>	FORM <input type="checkbox"/>
POSTAL <input type="checkbox"/>	SPECIAL UNLOADING INSTRUCTION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FORM <input type="checkbox"/>
	AUTHORIZATION:	<input type="checkbox"/>	<input type="checkbox"/>	FORM <input type="checkbox"/>
	AIR TRANSPORT AUTHORIZED	<input type="checkbox"/>	<input type="checkbox"/>	EXTRA RSR <input type="checkbox"/>

OK NA

RAM WASTE CHECKS  SHIPPERS QUALITY ASSURANCE CHECK  BRACING & SHORING

VISUAL TRL CHECKS  CONVEYANCE AND LOAD  PACKAGES - SECURED

VISUAL TRACTOR CKS  PACKAGES - CONDITION

RADIATION SURVEY		MATERIAL UNSHIELDED		OUTSIDE CONTAINER			INSIDE PKG. CONTAMINATION
PKG NO.	CONTAINER DESCRIPTION	CONTACT (mr/hr)	1 METER (mr/hr)	CONTACT (mr/hr)	1 METER (mr/hr)	SWEAR dpm/100cm <sup>2</sup>	dpm/100cm <sup>2</sup>
	<u>See Attached</u>						

THIS SHIPMENT IS WITHIN THE LIMITS PRESCRIBED FOR PASSENGER / CARGO AIR ONLY: YES  NO

APPROVALS: ORIGINATOR \_\_\_\_\_ HEALTH PHYSICS \_\_\_\_\_ DATE \_\_\_\_\_







\*\*\*\*\*  
 \* RADIOACTIVE SHIPMENT RECORD \*  
 \* INSTRUCTION TO CARRIER FOR \*  
 \* MAINTENANCE OF \*  
 \* EXCLUSIVE USE SHIPMENT CONTROLS \*  
 \*\*\*\*\*

Westinghouse Electric Corporation  
 Advanced Energy Systems  
 11 Route 51 South  
 Large, PA 15025

You are advised per these instructions to transport the items defined on the attached shipping documents under "EXCLUSIVE USE" provisions.

"Exclusive use" (also referred to in other regulations as "sole use" or "full load") means the sole use of a conveyance by a single consignor and for which all initial, intermediate, and final loading and unloading are carried out in accordance with the directions of the consignor or consignee. Any loading or unloading must be performed by personnel having radiological training and resources appropriate for safe handling of the consignment. Specific instructions for maintenance of exclusive use shipment controls must be issued in writing and include with the shipping paper information provided to the carrier by the consignor.

Special Remarks Concerning Exclusive Use  
 (To be provided by shipper as may be appropriate)

For All Shipments

- Avoid unnecessary delays
- Do not transfer shipment from originating carrier vehicle \*
- Do not change the loading pattern within the vehicle
- Notify Shipper if replacement tractor is used
- Do not load other packages on originating carrier vehicle
- Deliver shipment directly to consignee
- Survey vehicle per 177.843

For Package(s) Exceeding 200 mr/hr

- Closed transport vehicle
- No loading or unloading
- Package(s) secured and fixed

\* If transfer from originating carrier vehicle is necessary, or if a replacement tractor is used, then maintenance of exclusive use provisions, including adherence to prescribed radiation levels, are required for each subsequent carrier vehicle.

NOTICE TO CARRIER - If you do not understand your responsibility for maintenance of Exclusive Use controls call the shipper.

"OFFICIAL RECORD COPY" ML 10 117646