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Operating Plants Business
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USA

USNRC, Region I
Division of Nuclear Materials Safety
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Our ref: EHS-LTR-WDV-2017-002

January 5, 2017

Attention: Division of Nuclear Materials Safety

Subject: Report of Investigation Pursuant to 10 CFR Part 20 Appendix G
Agreement State License: PA-1053S

Westinghouse Electric Company LLC (Westinghouse) is submitting this report in accordance with Title 10, Code of Federal Regulation, Part 20, Appendix G, Section III.A(9), which states:

For any shipments or any part of a shipment for which acknowledgement of receipt has not been received within the times set forth in this appendix, conduct an investigation in accordance with paragraph E of this appendix.

Paragraph E, of this Section, states:

Any shipment or part of shipment for which acknowledgement is not received within the times set forth in this section must:

1. Be investigated by the shipper if the shipper has not received notification or receipt within 20 days after transfer; and
2. Be traced and reported. The investigation shall include tracing the shipment and filing a report with the nearest Commission Regional Office listed in Appendix D to this part. Each licensee who conducts a trace investigation shall file a written report with the appropriate NRC Regional Office within 2 weeks of completion of the investigation.

Incident Summary

Westinghouse Waltz Mill Site (WMS) in Madison, PA, shipped five (5) intermodal containers of Low Level Radioactive Waste (LLRW) to consignee, Waste Control Specialists LLC (WCS). WCS is the operator of an LLRW disposal facility in Andrews, TX, see Attachment 1. All five had the proper shipping name of UN2912, Radioactive Material, low specific activity (LSA-I) and each had a Transport Index of 0.1.

REC'D 101117 170653

Four (4) of the intermodal containers departed WMS on 11/21/2016 and one (1) departed WMS on 11/22/2016. All intermodal containers departed WMS by truck and were consolidated onto railcar GIMX 516228 in Wampum, PA, by a contracted agent, ICE Services Group, Inc. (ICE). ICE is responsible for providing and submitting all shipment documentation to the railroad, performing daily verification of the location of the railcar holding the intermodal containers and notifying WMS of the location of the railcar.

WMS did not receive a receipt acknowledgement from WCS by 12/11/2016 and 12/12/2016, Twenty (20) days after the date of shipment, respectively. However, due to a segment of the shipment going by rail, it was expected to take longer than 20 days to reach WCS. By regulation, an investigation was started.

Investigation Summary

The investigation showed the location of the railcar with the five (5) intermodal containers, was tracked by ICE daily, from the time of departure until it was placed at the WCS facility rail spur. The investigation also showed the car was delayed for six (6) days in Fort Worth, TX, and three (3) days in Monahans, TX. At no time were the intermodal containers unaccounted for during the transit from WMS in Madison, PA, to WCS in Andrews, TX, and there were no apparent attempts of diversion.

ICE provided a consolidated listing showing the location of the railcar on a daily basis from the time it departed Wampum, PA, until the time it was placed on the rail spur for WCS in Andrews, TX, on 12/16/2016, see Attachment 2. WCS provided signed manifests, indicating receipt of shipment, for each intermodal container to WMS on 12/20/2016, see Attachment 1.

Total transit time between when the intermodal containers were released from WMS to receiving receipt verification from WCS was twenty-nine (29) and thirty (30) days, respectively. Industry experience shows these transit times are not inordinate and/or uncommon during rail transportation.

In closing, WMS was fully aware of the shipment progress, as ICE tracked it, with the locations of the shipment verified daily, until delivery to the WCS rail spur.

Respectfully,



Wayne D. Vogel, Manager
Environment, Health and Safety
Radiation Safety Officer

Attachments (2)

cc: S. M. Ira/Westinghouse
J. W. Smetanka/Westinghouse
K. C. Miller/Westinghouse
A. H. Bridges/Westinghouse
J. N. Rizzi/Westinghouse
R. Kuyler/Westinghouse
A. J. Veltri/Westinghouse
J. Chippo (PADEP)

Attachment1

Signed Waste Manifests

FORM 540 (01-2014)		Waste Control Specialists		SHIPPER - NAME AND FACILITY		SHIPMENT I.D. NUMBER		7. FORM 540 AND 540A FORM 541 AND 541A FORM 542 AND 542A ADDITIONAL INFORMATION		8. MANIFEST NUMBER (Use this number on all continuation pages)									
UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER				Westinghouse Electric Co. LLC Waltz Mill Service Center 680 Waltz Mill Road Madison, Pennsylvania 15063		O-291-18		PAGE 1 OF 1 PAGE(S) 2 PAGE(S) NONE PAGE(S) 5 PAGE(S)		LLW 16-07									
				TEXAS PERMIT NUMBER N/A		SHIPMENT NUMBER O-291-18		COLLECTOR PROCESSOR											
				CONTACT Wayne Vogel		TELEPHONE NUMBER (Include Area Code) 724-722-5624		EPA ID, NUMBER N/A		SHIPMENT DATE 11/21/2016		9. CONSIGNEE - Name and Facility Address Waste Control Specialists, LLC TSD Facility 9998 W State Hwy 176 Andrews, Texas 76714							
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) 800-424-6309				2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 1				4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO							
ORGANIZATION Chemical Customer ID CON 24638				5. CARRIER - Name and Address Landstar Rongar 13410 Sutton Park Drive S. Jacksonville, Florida 32224				6. CONTACT Dispatcher SIGNATURE - Authorized carrier acknowledging waste receipt <i>Bill K...</i>				7. TELEPHONE NUMBER (Include Area Code) (800) 872-9400							
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number and any additional information)				12. DOT LABEL "RADIOACTIVE"		13. TRANSPORT INDEX		14. PHYSICAL AND CHEMICAL FORM		15. INDIVIDUAL RADIONUCLIDES		16. TOTAL PACKAGE ACTIVITY IN SI UNITS		17. LSA/SCO CLASS		18. TOTAL WEIGHT OR VOLUME (Use appropriate units)		19. IDENTIFICATION NUMBER OF PACKAGE	
UN2812, Radioactive material, low specific activity (LSA-I), 7 Fissile Excepted 1 Metal Box - IP-1: Soil, concrete, asphalt (Waste Profile: WP-5429)				YELLOW II		01		Solid/ Oxides		Am-241 Cm-243 Cm-244 Pu-238 Pu-240 Sr-90 (H-3-LLD) (Tc-99-LLD)		5.41E+01 MBq (1.46E+02 mCi)		LSA-I		17,500.0 Kg 38,581.0 Lbs		9SEU000031	
FOR CONSIGNEE USE ONLY				20. Record Waste Description Inadequate Contamination or Leakage Detected Unexpected Exposure Rates Detected Labels, Markings, etc. Inadequate Container Integrity Inadequate Other No Violations detected on this Shipment															

FORM 543 (01-2014)

FORM 540 (01-2014)

FORM 540 (01-2014)		Waste Control Specialists		SHIPPER - NAME AND FACILITY		SHIPMENT I.D. NUMBER		PAGE 1 OF 1		(Use this number on all continuation pages)	
UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER				Westinghouse Electric Co. LLC Waltz Mill Service Center 680 Waltz Mill Road Madison, Pennsylvania 15663		O-295-16		FORM 540 AND 540A FORM 541 AND 541A FORM 542 AND 542A ADDITIONAL INFORMATION		LLW 15-11	
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) (800) 424-1300				TEXAS PERMIT NUMBER N/A		SHIPMENT NUMBER O-295-16		COLLECTOR PROCESSOR		CONTACT Tom Hannah	
2. ORGANIZATION Chemical Customer ID CC624590				CONTACT Wayne Vogel		GENERATOR TYPE (Specify) NP		9. CONSIGNEE - Name and Facility Address Waste Control Specialists, LLC TSD Facility 6998 W. State Hwy 176 Andrews, Texas 79714		TELEPHONE NUMBER (Include Area Code) 432-525-8500	
3. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 1		EPA ID NUMBER N/A		SHIPPING DATE 11/21/2016		DATE 12/20/16	
4. DOES EPA REGULATE WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				EPA MANIFEST NUMBER N/A		CONTACT Dispatcher SIGNATURE - Authorized carrier acknowledging waste receipt <i>B. K. K...</i>		TELEPHONE NUMBER (Include Area Code) (800) 872-9400		10. CERTIFICATION This is to certify that the herein-named materials are acceptable for disposal, 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 and the Commission.	
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number and any additional information) UN2912, Radioactive material, low specific activity (LSA-I), 7 Fissile Excepted 1 Metal Box, IP-1: Soil, concrete, asphalt (Waste Profile: WP-8426)				12. DOT LABEL "RADIOACTIVE" YELLOW I		13. TRANSPORT INDEX 0.1		14. PHYSICAL AND CHEMICAL FORM Solid Oxides		15. INDIVIDUAL RADIONUCLIDES Am-241 Cm-243 Cm-244 Pu-238 Pu-240 Sr-90 (H-3-LLD) (Tc-99-LLD)	
TOTAL PACKAGE ACTIVITY IN SI UNITS 4.36E+01 MBq (1.18E+00 mCi)				17. LBA/SCO CLASS LSA-I		18. TOTAL WEIGHT OR VOLUME (Use appropriate units) 14,898.8 Kg 33,069.0 Lbs		19. IDENTIFICATION NUMBER OF PACKAGE M-FU001882			
FOR CONSIGNEE USE ONLY				20.							
<ul style="list-style-type: none"> Record Waste Description Inadequate Contamination or Leakage Detected Unexpected Exposure Rates Detected Labels, Markings, etc. Inadequate Container Integrity Inadequate Other No Violations detected on this Shipment 											

FORM 540 (01-2014)

Attachment 2

Shipment Tracking Report



Westinghouse



Car #	Container #	Current Location	Status	Destination	Railway	Type	Notes	Left Alaron	Arrive WCS	Left WCS	Returned Alaron
GIMX 516228	MHFU 002265	12/16, Andrews, TX (AP)		Andrews, TX	TXN	Flatcar	Placed at WCS	11/23/2016	12/16/2016		
	MHFU 001984										
	ISEU 000031										
	MHFU 001600										
	MHFU 001862										

Car #	Daily Location History
GIMX 516228	11/23, Wampum, PA
	11/24, Youngstown, OH
	11/25, Conway, PA
	11/26, Conway, PA
	11/27, Bellevue, OH
	11/28, Frank, OH
	11/29, Cincinnati, OH
	11/30, Chatanooga, TN
	12/1, Bessemer, AL
	12/2, New Orleans, LA
	12/3, Alexandria, LA
	12/4, Alexandria, LA
	12/5, Lansing Jct, TX
	12/6, Ft. Worth, TX
	12/7, Ft. Worth, TX
	12/8, Ft. Worth, TX
	12/9, Ft. Worth, TX
	12/10, Ft. Worth, TX
	12/11, Ft. Worth, TX
	12/12, Monahans, TX
	12/13, Monahans, TX
	12/14, Monahans, TX
	12/15, Eunice, NM
	12/16, Andrews, TX