



May 17, 2018

SENT VIA FedEx Tracking #772257274310
Mr. John Giessner
Director of DNMS
U.S. Nuclear Regulatory Commission, Region III
2443 Warrenville Road, Suite 210
Lisle, Illinois 60532-4352

RE: License Number 13-06932-03
Docket Number 030-33973
Disposal notification
Cargill, Incorporated - Hammond, Indiana

Dear Mr. Giessner:

In April we proceeded with Chase Environmental Group, Inc. (Chase) to remove and dispose of the following Texas Nuclear fixed gauges:


Model 5191 containing cesium-137 sealed source was located in Building 53
Model 5201 containing cesium-137 sealed source was located in Building 87

This letter is to provide the communication of the source removal and disposal.

Cargill had contacted Chase from Louisville, Kentucky operating under Tennessee license R-53008-E19 with expiration May 31, 2019, to remove and dispose of the Texas Nuclear gauges Model numbers 5191 and 5201. Chase provided a Radiation Safety specialist on April 24, 2018 to remove and properly package the sources for transport to the Alaron Nuclear Services, Radioactive Materials License PA-0678. Alaron Nuclear Services will transport to Waste Control Specialists (WCS) in Andrews, Texas license R04100 with expiration September 10, 2024.

Cargill will provide the NRC with amendment and maintain the associated records as required by our license.

Should you have any questions or comments concerning this submittal please contact me via either telephone at 219-473-2554 or via email at james_tuinstra@cargill.com.


James Tuinstra
Radiation Safety Officer

Attachments

Cargill Texturizing Solutions
1100 Indianapolis Boulevard
Hammond, Indiana 46320-1094

RECEIVED MAY 21 2018

1 of 7



Chase Environmental Group

200 Sam Rayburn Pkwy
Lenoir City, TN 37771
(865) 816-6015

LEAK TEST CERTIFICATE

Generator Information

Client #: 1199
Issued To: **Cargill, Inc.**
Hammond, IN
1100 Indianapolis Blvd
Hammond IN 46320
USA

Sample Information

Sample#: 1 Location: **Bldg 53 (2nd Floor)**

Sample Date Manuf. Model Device #
4/24/18 Texas Nuclear 5191 -

Sampled By: Isotope Activity Source S/N
Craig Eisenberg Cs-137 1.0 Ci 433

Notes: Pre-disposal Leak Test

Laboratory Information


C.N. Eisenberg, Lab Tech. 4/26/18 4516 <0.005 µCi.
Lab Date Lab # Lab Results

Instrumentation MDA (37 Bq. = 0.001 µCi.)
Instr.#: 102010 Cs-137: 0.00004 µCi Pu-239: 0.0000027 µCi
Det.#: PR102462 Tc-99: 0.00005 µCi C-14: 0.00011 µCi

Removable contamination (leak test) analysis was obtained using detection configuration: **48**

Sample results were less than 0.005 µCi. (<185 Bq.), and will not require regulatory notification.
All documents, including this certificate, should be maintained on file for agency review.
Services provided in accordance with Tennessee Radioactive Materials License # R-53008-E19.



Chase Environmental Group

200 Sam Rayburn Pkwy
Lenoir City, TN 37771
(865) 816-6015

LEAK TEST CERTIFICATE

Generator Information

Client #: 1199
Issued To: **Cargill, Inc.**
Hammond, IN
1100 Indianapolis Blvd
Hammond IN 46320
USA

Sample Information

Sample#: 2 Location: **Bldg 87 (3rd Floor)**

<u>Sample Date</u>	<u>Manuf.</u>	<u>Model</u>	<u>Device #</u>
4/24/18	Texas Nuclear	5201	-

<u>Sampled By:</u>	<u>Isotope</u>	<u>Activity</u>	<u>Source S/N</u>
Craig Eisenberg	Cs-137	100 mCi	B2521

Notes: Pre-disposal Leak Test

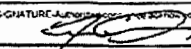
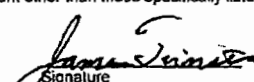
Laboratory Information

 C.N. Eisenberg, Lab Tech.	<u>4/26/18</u> Lab Date	<u>4517</u> Lab #	<u><0.005 µCi.</u> Lab Results
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<u>Instrumentation</u>	<u>MDA (37 Bq. = 0.001 µCi.)</u>
Instr #: 102010	Cs-137: 0.00004 µCi Pu-239: 0.0000027 µCi
Det #: PR102462	Tc-99: 0.00005 µCi C-14: 0.00011 µCi

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NRC FORM 540 UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER		5. SHIPPER- NAME AND FACILITY Chase Environmental Group, Inc. 11450 Watterson Court Louisville, KY 40299		SHIPPER ID # N/A	PAGE 1 <u>1</u> PAGE(S) OF <u>1</u> PAGE(S) ADDITIONAL INFORMATION <u>None</u> PAGE(S)	8. Manifest Number (Use this number on all continuation pages) AL-2018-142		
1. EMERGENCY TELEPHONE NUMBER (INCLUDE AREA CODE) 800-424-9300		USER PERMIT NUMBER T-KY003-L18	SHIPMENT # N/A	GENERATOR TYPE (SEE 49 CFR 173.17)	9. CONSIGNEE-NAME AND FACILITY ADDRESS Alaron Corporation 2138 State Route 18 Wampum, PA 16157	Contact Mike Ollowski Telephone Number (include area code) 724-535-5777		
ORGANIZATION CHEMTREC WSDS #: CHEN01RAD Customer #: 4395		6. CARRIER NAME AND ADDRESS Chase Environmental Group, Inc. 11450 Watterson Court Louisville, KY 40299		TELEPHONE # 855-310-9448	7. SIGNATURE (Authorized person only, including waste receipt) 	Date 05-22-2018		
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.		4. IS THIS AN EXEMPT LOW-LEVEL WASTE? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 1	2. EPA MANIFEST NUMBER N/A	11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (including proper shipping name, hazard class, UN ID number and any additional information)		
12. DOT LABEL Yellow-II		13. TRANSPORT INDEX 0.3	14. PHYSICAL AND CHEMICAL FORM Solid/Oxide	15. INDIVIDUAL RADIOCLIDES Cs-137	16. TOTAL PACKAGE ACTIVITY IN MBq 1.58E+04	17. LSA/SCO CLASS N/A	18. TOTAL WEIGHT OR VOLUME IN M³ 0.038	19. ID NUMBER OF PACKAGE AL-SS-W-18-168
UN2915 Radioactive material, Type A package, 7 One drum with gauges for disposal								
RECEIVED AS SHIP # 18-0267 MAY 02 2018 Alaron Nuclear Services								
Emergency Response Guide Reference: 163				Generator Certification Statement: The constituents of the waste manifested herein are known to the generator. There are no EPA RCRA, pathogenic or other hazards present other than those specifically listed on the Form 541.				
				James Twister Print name	 Signature	9/24/2018 Date		

CONSIGNEE ORIGINAL (MUST ACCOMPANY WASTE IN TRANSIT)

NRC FORM 641 US NUCLEAR REGULATORY COMMISSION UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST CONTAINER AND WASTE DESCRIPTION	1 MANIFEST TOTALS						2 MANIFEST NUMBER			
	NUMBER OF PACKAGES	NET WASTE VOL. m3	NET WASTE WEIGHT kg	SPECIAL NUCLEAR MATERIAL (grams)			AL-2018-142			
	1	0.038	115.0	U-233	U-235	Pu	TOTAL			
		1.3	253.6	NP	NP	NP	NP			
ACTIVITY (MBq/mCi)						SOURCE		3. PAGE 1 OF 1 PAGE(S)		
ALL NUCLIDES			TRITIUM	C-14	Tc-99	I-129	(kg)		4 SHIPPER NAME	
1.58E+04 MBq			NP	NP	NP	NP	0.00E+00		Chase Environmental Group	
4.26E+02 mCi									SHIPPER ID NUMBER	
									NA	

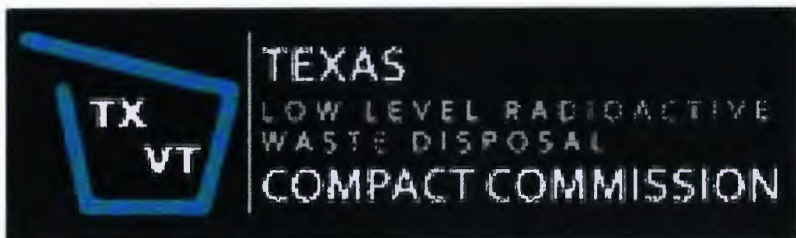
DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER							16 WASTE CLASS AS-A STABLE AS-B UNSTABLE AS-C CLASS B AS-C CLASS C			
5 CONTAINER IDENTIFICATION NUMBER/ GENERATOR NUMBER	6 CONTAINER DESCRIPTION (See Note 1)	7 VOLUME (m3)	8 WASTE AND CONTAINER WEIGHT (kg)	9 SURFACE RADIATION LEVEL , X, uSv/hr mSv/hr	10 SURFACE CONTAMINATION MBq/100 cm2		11 PHYSICAL DESCRIPTION			14 CHEMICAL DESCRIPTION		15 RADIOLOGICAL DESCRIPTION				
					DESCRITOR	12 APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3)	13 SOLIDIFICATION STABILIZATION MEDIA (See Note 3)	CHEMICAL FORM: CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT						
					ALPHA	BETA GAMMA	(See Note 2)					Nuclide		MBq	mCi	
AL-SS-W-18-168 1869	4	0.038	115.0	100	<3.67E-6	<3.67E-5	36	0.038	100	Oxide/NP	NP	Cs-137	1.58E+04	4.26E+02	NA	
												Package total				
			1.58E+04	4.26E+02												

NOTE 1: Container Description Codes. For containers: waste requiring disposal in approved structural overpacks. The numerical code must be followed by "OP" 1 Wooden Box or Crate 2 Metal Box 3 Plastic Drum or Pail 4 Metal Drum or Pail 5 Metal Tank or Liner 6 Concrete Tank or Liner 7 Polyethylene Tank or Liner 8 Fiberglass Tank or Liner 9 Deminerator 10 Gas Cylinder 11 Bulk, Unpackaged Waste 12 Unpackaged Components 13 High Integrity Container 14 Other describe in item 6 or additional page	Note 2: Waste Descriptor Codes. (Choose up to three which predominate by volume) 20 Charcoal 21 Incinerator Ash 22 Soil 23 Gas 24 Oil 25 Aqueous Liquid 26 Filter Media 27 Mechanical Parts 28 EPA or State Hazardous 29 Demolition Rubble 30 Cation Ion Exchange Media 31 Anion Ion Exchange Media 32 Mixed Bed Ion Exchange Media 33 Cationic Equipment 34 Organic Liquid (Except Oil) 35 Glassware or Lachems 36 Sealed Source/Device 37 Paint or Plating Hazardous	Note 3: For solidification media that meet disposal site structural stability requirements, the numerical code must be followed by "S" For all solidification media the vendor (manufacturer) and brand name must also be identified in item 13. Code 100 = NONE REQUIRED Sorption 80 Speedi-Dri 81 Celotram 82 Floor Dry/Supertine 83 Hi-Dri 84 Safe-T-Sorb 85 Safe-N-Dri 86 Fluxo 87 Floss-X 88 Safe-A-Sorb 89 Chemal 50 90 Chemal 50 91 Chemal 3030 92 Diaper HP200 93 Other Describe in item 13 or additional page Solidification 90 Cement 91 Concrete (Encapsulated) 92 Bitumen 93 Vinyl Chloride 94 Vinyl Ester Styrene 95 Other Describe in item 13 or Additional Page 100 None Required
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5077

NRC FORM 542 5-1998)		U.S. NUCLEAR REGULATORY COMMISSION			1 WASTE COLLECTOR/PROCESSOR				2 MANIFEST NUMBER		
UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST					NAME Chase Environmental Group, Inc.			SHIPPER USE ONLY		AL-2018-142	
					IDENTIFICATION NUMBER T-KY003-L18						
					MANIFEST INDEX AND REGIONAL COMPACT TABULATION			SHIPPING DATE 4/24/2018			3 PAGE_1_OF_1_PAGE(S)
List all original "PROCESSED WASTE" before "COLLECTED WASTE"											
4	5	6	7	8	9	10	11 AS PROCESSED/COLLECTED TOTAL				
GENERATOR IDENTIFICATION NUMBER	GENERATOR NAME PERMIT NUMBER AND TELEPHONE NUMBER	GENERATOR FACILITY ADDRESS	PREPROCESSED WASTE (OR MATERIAL) VOLUME (m3)	MANIFEST NUMBER UNDER WHICH WASTE (OR MATERIAL) RECIPES INDICATE OF RECEIPT	WASTE CODE PROCESSED DATE	ORIGINATING COMPACT OR STATE	A SOURCE MATERIAL (kg)	B SNM (g)	C ACTIVITY (MBq)	D VOLUME (m3)	
1869	Cargill USA (219) 659-2000	1100 Indianapolis Blvd. Hammond, IN 46394	0.038	NA	C	1100 In	0.00E+00	NP	1.58E+04	0.038	
TOTALS OF ALL PAGES (NRC FORMS 542 AND 542A)							0.00E+00	0.00E+00	1.58E+04	3.80E-02	

LJ09



GENERATOR AUTHORIZATION

DATE:

NAME OF ORIGINAL GENERATOR: Cargill

Authorizes

NAME OF BROKER/PROCESSOR: Alaron Corporation

to be our Broker and/or Processor for disposal of our radioactive material and/or sealed sources into the State of Texas Compact Disposal Facility in Andrews, Texas, operated by Waste Control Specialists, LLC. By signing this Generator Authorization, the Generator is also verifying that there is no waste of international origin contained in this shipment.

NAME OF AUTHORIZED ORIGINAL GENERATOR REPRESENTATIVE:

James Tuinstra
(PRINT NAME)

TITLE:

RSO
(PRINT TITLE)

MAILING ADDRESS:

1100 Indianapolis Blvd
Hammond, IN 46320

SIGNATURE:

James Tuinstra