



DETROIT HOMELAND SECURITY & EMERGENCY MANAGEMENT

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HSEM@DETROITMI.GOV

January 16, 2018

Director of FSME
Attn: GLTS
USNRC
Washington, DC 20555-0001

In fulfillment of the requirements of 10 CFR 31.5(c) 8, we hereby notify you that on January 11, 2018, we transferred 11 sources to Chase Environmental Group located at 11450 Watterson Court, Louisville, Kentucky 40299-2389, License Number # 201-605-15-35. These devices were previously located at the Greatlakes Water Authority, 2727 2nd Avenue, Detroit, Michigan 48201. The sources bare the following serial numbers:

- | | |
|--------------------------|-------------------------|
| 1. R0123, Ni-63, 15 mCi | 7. A6124, Ni-63, 15 mCi |
| 2. R0124, Ni-63, 15 mCi | 8. TV252, Ni-63, 15 mCi |
| 3. R0125, Ni-63, 15 mCi | 9. TR691, Ni-63, 15 mCi |
| 4. A12761, Ni-63, 15 mCi | 10. 5887, Ni-63, 15 mCi |
| 5. A11326, Ni-63, 15 mCi | 11. 5916, Ni-63, 15 mCi |
| 6. A15119, Ni-63, 15 mCi | |

I have attached the following forms provided to me by Chase Environmental:

1. Uniform Low- Level Radioactive Waste Manifest, NRC form, 540, 541, 542.
2. Request for Shipment of Sealed Source to Aleron.
3. Generator Authorization to Aleron.

If you should have any questions, please contact Rachel Thomas (313) 596-5071.

Sincerely,

Rachel Thomas
Police Officer, RSO
City of Detroit Office of Homeland Security

NMSS10

LAWRENCE MEYER, DIRECTOR

MIKE DUGGAN, MAYOR

[illegible]

NRC FORM 541		US NUCLEAR REGULATORY COMMISSION		1. MANIFEST TOTALS							2. MANIFEST NUMBER							
UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST CONTAINER AND WASTE DESCRIPTION				NUMBER OF PACKAGES	NET WASTE VOL. m ³ /l	NET WASTE WGHT kg	SPECIAL NUCLEAR MATERIAL (grams)				AL-2018-007							
				1	0.114 4.0	23.0	U-233	U-235	Pu	TOTAL								
							NP	NP	NP	NP								
							ACTIVITY (MBq/mCi)				SOURCE (kg) 0.00E+00							
ALL NUCLIDES	TRITIUM	C-14	Tc-99	I-129														
6.11E+03 MBq 1.65E+02 mCi	NP	NP	NP	NP														
DISPOSAL CONTAINER DESCRIPTION				WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER														
5. CONTAINER IDENTIFICATION NUMBER/ GENERATOR NUMBER	6. CONTAINER DESCRIPTION (See Note 1)	7. VOLUME (m ³)	8. WASTE AND CONTAINER WEIGHT (kg)	9. SURFACE RADIATION LEVEL X uS/hr mSv/hr	10. SURFACE CONTAMINATION MBq/100 cm ²		11. WASTE DESCRIPTOR			12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m ³)		13. SORBENT SOLIDIFICATION STABILIZATION MEDIA (See Note 3)		14. CHEMICAL DESCRIPTION CHEMICAL FORM / CHELATING AGENT		15. RADIOLOGICAL DESCRIPTION INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL: OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT		16. WASTE CLASS AS-A STABLE AU-A UNSTABLE B-CLASS B C-CLASS C
					ALPHA	BETA- GAMMA	(See Note 2)	(m ³)					Nuclide	MBq	mCi			
AL-SD-W-18-006 1826	4	0.114	23.0	<5.0	<3.67E-6	<3.67E-5	36	0.114	100	Oxide/NP	NP		Ni-63	6.11E+03	1.65E+02	NA		
													Package total	6.11E+03	1.65E+02			

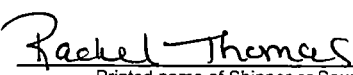
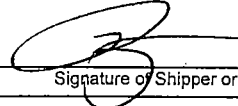

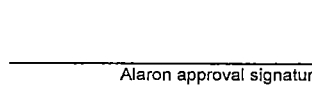
<p>NOTE 1: Container Description Codes. For containers/ waste requiring disposal in approved structural overpacks, the numerical code must be followed by "OP".</p> <p>1. Wooden Box or Crate 2. Metal Box 3. Plastic Drum or Pail 4. Metal Drum or Pail 5. Metal Tank or Uner 6. Concrete Tank or Uner 7. Polyethylene Tank or Uner 8. Fiberglass Tank or Uner</p>	<p>NOTE 2: Waste Descriptor Codes. (Choose up to three which predominates by volume.)</p> <p>20. Charcoal 21. Incinerator Ash 22. Soil 23. Gas 24. Oil 25. Aqueous Liquid 26. Filter Media 27. Mechanical Filter 28. EPA or State Hazardous</p> <p>29. Demolition Rubble 30. Cation Ion Exchange Media 31. Anion Ion Exchange Media 32. Mixed Bed Ion Exchange Media 33. Contaminated Equipment 34. Organic Liquid (Except Oil) 35. Glassware or Labware 36. Sealed Source/Device 37. Paint or Plating</p>	<p>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.</p> <p>Sorption 60. Speedi Dri 61. Calem 62. Floor Dry/ Superfine 63. Hi Dri 64. Safe-T-Sorb 65. Safe-N-Dri</p> <p>66. Florco 67. Florco X 68. Solid-A-Sorb 69. Chemst 30 70. Chemst 50 71. Chemst 3000 72. Diaperst HP200</p> <p>Solidification 73. Diaperst HP500 74. Petroset 75. Petroset II 76. Aquaset 77. Aquaset II 78. Other, Describe in item 13, or additional page 79. Cement 80. Concrete (Encapsulation) 81. Bitumen 82. Vinyl Chloride 83. Vinyl Ester Styrene 84. Other, Describe in item 13, or Additional Page</p> <p>100. None Required</p>
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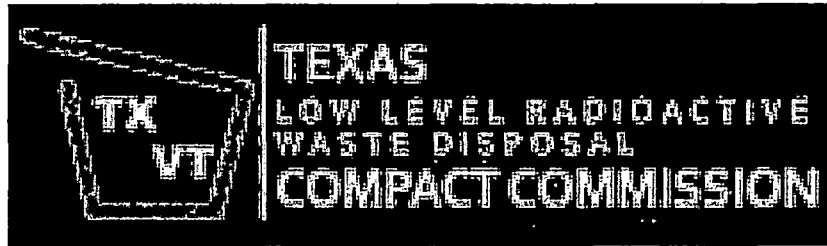
NRC FORM 542 (5-1998)		U.S. NUCLEAR REGULATORY COMMISSION		1. WASTE COLLECTOR/PROCESSOR NAME Chase Environmental Group, Inc. IDENTIFICATION NUMBER T-KY003-L18 SHIPPING DATE 1/11/2018				2. MANIFEST NUMBER AL-2018-007 3. PAGE_1_OF_1_PAGE(S)		
UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST										
MANIFEST INDEX AND REGIONAL COMPACT TABULATION List all original "PROCESSED WASTE" before "COLLECTED WASTE".										
4. GENERATOR IDENTIFICATION NUMBER	5. GENERATOR NAME PERMIT NUMBER AND TELEPHONE NUMBER	6. GENERATOR FACILITY ADDRESS	7. PREPROCESSED WASTE (OR MATERIAL) VOLUME (m3)	8. MANIFEST NUMBER UNDER WHICH WASTE (OR MATERIAL) RECEIVED AND DATE OF RECEIPT	9. WASTE CODE IN-PROCESSED OR COLLECTED	10. ORIGINATING COMPACT OR STATE	11. AS PROCESSED/COLLECTED TOTAL			
							A. SOURCE MATERIAL (kg)	B. SNM (g)	C. ACTIVITY (MBq)	D. VOLUME (m3)
1826	Great Lakes Water Authority 313-964-9717	2727 Second Avenue Detroit, MI 48201	0.114	NA	C	MI	0.00E+00	NP	6.11E+03	0.114
TOTALS OF ALL PAGES (NRC FORMS 542 AND 542A)							0.00E+00	0.00E+00	6.11E+03	1.14E-01

Job Number 03-WM-010918-D

Request For Shipment of Sealed Sources to Alaron

WI-VE-1109-051.1

Source Details	Source 1	Source 2	Source 3	Source 4
1. Radionuclide	Ni-63			
2. Total activity Specify Units (TBq or Ci) to right	11 x 15 mCi			
3. Reference date for activity (date manufactured) mm/dd/yyyy	NA			
4. Decay corrected activity on shipment date	11 x 15 mCi			
5. Source manufacturer (if known)	Bruker			
6. Source Serial No. / Model No. / Device License No.				
7. Physical Dimensions of Source Specify Units (cm or in) to right	ECD			
8. Source mounted in equipment? If yes, attach drawings / photograph or manufacturer & model no.	NO			
9. Date of most recent leak test (attach copy of results) mm/dd/yyyy				
10. Source damaged, discolored, leaking, or contaminated? If yes, attach detail	NO			
11. Does source have special form approval? If yes, supply copy of certificate	NO			
12. Shipper name & address Chase Environmental Group 200 Sam Rayburn Parkway Lenoir City, TN 37771	13. Shipper contact person Janet Baker Telephone 865-250-4593	Delivering carrier SJ Transportation Co., Inc.		
	15. Shipment Date mm/dd/yyyy 01/11/2018	Estimated delivery date mm/dd/yyyy		
17. Source owner company name and address (at source location) Great Lakes Water Authority 2727 Second Avenue Detroit, MI 48201	18. Contact person (at source location) Kuriakose Cheeramvelil Telephone 313-964-9717	Number of packages 1 Total weight lbs		
Comments				
20. I attest that the above is complete and accurate				
 Printed name of Shipper or Source Owner		 Signature of Shipper or Source Owner		<u>1-11-18</u> Date
 Chase approval signature		<u>1-11-2018</u> Date	 Alaron approval signature	
Date				



GENERATOR AUTHORIZATION

DATE: 1-11-2018

NAME OF ORIGINAL GENERATOR: Great Lakes Water Authority

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:

Rachel Thomas
(PRINT NAME)

TITLE:

Police Officer / RSO
(PRINT TITLE)

MAILING ADDRESS:

13331 Lyndon
Detroit mi 48226

SIGNATURE:

[Handwritten Signature]