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LOCATIONS:

2141 K Street, NW  
Suites 100, 111, 200 & 900  
Washington, DC 20037  
202-223-9722  
202-659-2819 Fax

4445 Willard Avenue  
Suite 200  
Chevy Chase, Maryland 20815  
301-654-4242  
301-907-7414 Fax

10215 Fernwood Road  
Suite 103  
Bethesda, Maryland 20817  
301-564-1053  
301-493-8522 Fax

12505 Park Potomac Avenue  
Suite 120  
Potomac, Maryland 20854  
240-223-4700  
240-223-4701 Fax

3022 Williams Drive  
Suites 104, 200 & 204  
Fairfax, Virginia 22031  
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703-573-2318 Fax

21351 Ridgeway Circle  
Suites 100 & 150  
Sterling, Virginia 20166  
571-434-0140  
571-434-0144 Fax

Business Office  
3015 Williams Drive  
Suite 200  
Fairfax, Virginia 22031  
703-641-9133  
703-280-5098 Fax

May 5, 2015

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John Nicholson  
US Nuclear Regulatory Commission  
Division of Nuclear Material Safety  
Medical Branch  
Region 1 Office

Dear Mr. Nicholson:

In followup to my letter dated February 13, 2015, the last patient in our nuclear medicine department was seen on February 20, 2015. The radiopharmaceuticals that we used before we closed our nuclear medicine service were Technetium-99m, and I-123. We also used I-131 sodium iodide occasionally for treatment of hyperthyroidism. In the past we have used Gallium 67, Indium 111, Thallium 201 but we have not used these in many years.

Our physicist performed the close out survey on 4/29/15 after the sealed sources were removed on 4/28/15. Our last sealed source leak was performed November 11, 2014.

Please see enclosed documents for details.

Please feel free to call me at 202-223-9722 ext. 1705.

Sincerely,

Gary L. Rose, M.D.  
Director of Nuclear Medicine  
Washington Radiology Associates  
2141 K St, N.W., Suite #900  
Washington, DC 20037

L7

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NMSS/RGN1 MATERIALS-002

NRC FORM 540 <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER</b>		5. SHIPPER- NAME AND FACILITY Chase Environmental Group, Inc. 11450 Watterson Court Louisville, KY 40299		SHIPPER ID # N/A	7. NRC FORM 540 AND 540A PAGE 1 <u>  </u> 1 <u>  </u> PAGE(S) NRC FORM 541 AND 541A OF <u>  </u> 1 <u>  </u> PAGE(S) NRC FORM 542 AND 542A <u>  </u> 1 <u>  </u> PAGE(S) ADDITIONAL INFORMATION <u>  None  </u> PAGE(S)	8. Manifest Number (Use this number on all continuation pages)  AL-2015-075		
1. EMERGENCY TELEPHONE NUMBE (INCLUDE AREA CODE) 800-424-9300		USER PERMIT NUMBER T-KY003-L15	SHIPMENT # N/A	GENERATOR TYPE (SPECIFY) <input checked="" type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR	9. CONSIGNEE-NAME AND FACILITY ADDRESS Alaron Corporation 2138 State Route 18 Wampum, PA 16157		Contact Mike Ottowski	
ORGANIZATION Chemtrek		CONTACT Janet Baker		TELEPHONE # 865-250-4593	Telephone Number (Include area code) 724-535-5777		Date	
2. IS THIS AN 'EXCLUSIVE USE' SHIPMENT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 1		6. CARRIER NAME AND ADDRESS Chase Environmental Group 11450 Watterson Court Louisville, KY 40299	EPA ID #	10. Certification		
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		EPA MANIFEST NUMBER NA		CONTACT Jim Cabage Jr.	TELEPHONE # 865-851-5503	This is to certify that the herein named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation and handling in accordance with the requirements of 10CFR parts 20 and 61, or equivalent state regulations.		
				SIGNATURE 	DATE 4/28/15	AUTHORIZED SIGNATURE 	TITLE Rad Waste Specialist	
							DATE 4/28/15	
HM	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	18. TOTAL PACKAGE ACTIVITY IN MBq	17. LSA/SCO CLASS	19. ID NUMBER OF PACKAGE
X	UN2915 Radioactive material, Type A package, 7  One drum with sources for disposal	Yellow-II	0.1	Solid/Oxide	Co-57; Cs-137	1.14E+02	NA	0.019 AL-SS-W-15-181
					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.			
					Steve Hauer			4/28/15
					Print name	Signature		Date
					CONSIGNEE ORIGINAL (MUST ACCOMPANY WASTE IN TRANSIT)			

NRC FORM 541 US NUCLEAR REGULATORY COMMISSION  <b>UNIFORM LOW-LEVEL RADIOACTIVE          WASTE MANIFEST          CONTAINER AND WASTE DESCRIPTION</b>	1. MANIFEST TOTALS						2. MANIFEST NUMBER	
	NUMBER OF PACKAGES	NET WASTE VOL. m <sup>3</sup>	NET WASTE WTG kg	SPECIAL NUCLEAR MATERIAL (grams)			AL-2015-075	
		0.019	10.0	U-233	U-235	Pu		TOTAL
	1	0.68		NP	NP	NP	NP	3. PAGE 1 OF 1 PAGE(S)
	ACTIVITY (MBq/mCi)						SOURCE (kg)	4. SHIPPER NAME Chase Environmental Group
ALL NUCLIDES		TRITIUM	C-14	Tc-99	I-129	0.00E+00		
1.14E+02 MBq		NP	NP	NP	NP			
3.09E+00 mCi								

DISPOSAL CONTAINER DESCRIPTION					WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER							16. WASTE CLASS AS-A STABLE AU-A UNSTABLE B-CLASS B C-CLASS C			
5. CONTAINER IDENTIFICATION NUMBER/GENERATOR NUMBER	6. CONTAINER DESCRIPTION (See Note 1)	7. VOLUME (m <sup>3</sup> )	8. WASTE AND CONTAINER WEIGHT (kg)	9. SURFACE RADIATION LEVEL _X_ uSv/hr ___ mSv/hr	10. SURFACE CONTAMINATION MBq/100 cm <sup>2</sup>		11. PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION			15. RADIOLOGICAL DESCRIPTION		
					ALPHA	BETA-GAMMA	11. WASTE DESCRIPTOR (See Note 2)	12. APPROXIMATE WASTE VOLUME IN CONTAINER (m <sup>3</sup> )	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		
Nuclide			MBq	mCi											
AL-SS-W-15-181 1461	4	0.019	10.0	10	<3.67E-6	<3.67E-5	36	0.019	100	Oxide/NP	NP	Co-57	1.09E+02	2.94E+00	NA
												Cs-137	5.53E+00	1.49E-01	
												<b>Package total</b>	<b>1.14E+02</b>	<b>3.09E+00</b>	

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

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

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

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

**Note 3: For solidification media that meet disposal site structural stability requirements, the numerical code must be followed by "S". For all solidification media, the vendor (manufacturer) and brand name must also be identified in Item 13. Code 100 = NONE REQUIRED.**

Sorption	60. Speedi Ori	66. Florco	73. Diacapp HP200	89. Other, Describe in Item 13, or additional page	90. Cement	100. None Required
61. Celatom	67. Florco X	74. Pacoseal		91. Concrete (Encapsulation)		
62. Floor Dry/Superfine	68. Solid-A-Sorb	75. Petroseal II		92. Bitumin		
63. Hi Dri	69. Chemal 20	76. Aquaset		93. Vinyl Chloride		
64. Safe-T-Sorb	70. Chemal 50	77. Aquaset II		94. Vinyl Ester Styrene		
65. Safe-N-Dri	71. Chemal 3030			96. Other, Describe in Item 13, or Additional Page		
	72. Diacapp HP200					

NRC FORM 542  
(5-1998)

U.S. NUCLEAR REGULATORY COMMISSION

**UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**

**MANIFEST INDEX AND REGIONAL COMPACT TABULATION**

List all original "PROCESSED WASTE" before "COLLECTED WASTE".

1. WASTE COLLECTOR/PROCESSOR		2. MANIFEST NUMBER
NAME Chase Environmental Group, Inc.		AL-2015-075
IDENTIFICATION NUMBER T-KY003-L15		
SHIPPING DATE 4/28/2015		
SHIPPER USE ONLY		3. PAGE_1_OF_1_PAGE(S)

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	10. ORIGINATING COMPACT OR STATE	11. AS PROCESSED/COLLECTED TOTAL			
							A. SOURCE MATERIAL (kg)	B. SNM (g)	C. ACTIVITY (MBq)	D. VOLUME (m3)
1461	Washington Radiology Associates 202-223-9723 x1201	2141 K. Street NW, Suite 900 Washington, DC 20037	0.019	NA	C	DC	0.00E+00	NP	1.14E+02	0.019
TOTALS OF ALL PAGES (NRC FORMS 542 AND 542A)							0.000	0.000	1.14E+02	0.019