



November 10, 2016

Ms. Patricia Pelke
U.S. Nuclear Regulatory Commission
Region III
2443 Warrenville Rd., Suite 210
Lisle, IL 60532-4352

RE: Amendment to Van Andel Research Institute (VARI)
NRC License #21-32841-01

Dear Ms. Pelke;

The letter is being sent to request an amendment of VARI's Materials License to make the following changes:

Remove Sealed Sources form License 21-32841-01:

S. Ge/Ga-68	Eckert & Ziegler Isotope Products, Model UPET 06-068-30U, 30 uCi
T. Cs-137	Eckert & Ziegler Isotope Products, Model RV-137-250U, 261.1 uCi
U. Co-57	Eckert & Ziegler Isotope Products, Model PF 18C-057-10M, 10 mCi

Attached is the completed NRC Form 540 provided by USIT who subcontracted RAM Services, Inc. for transportation and disposal.

If there are any questions, please do not hesitate to contact me at (616) 234-5766 or David.Lutkenhoff@vai.org.

Sincerely,

David Lutkenhoff, M.S., CIH
Radiation Safety Officer

Enclosures

RECEIVED NOV 15 2016

APPROVED BY OMB: NO. 3150-0184
EXPIRES: 12/31/2016

Estimated burden per response to comply with this information collection request: 45 minutes. This uniform manifest is required by NRC to meet reporting requirements of Federal and State Agencies for the safe transportation and disposal of low-level waste. Send comments regarding burden estimate to the FOIA, Privacy and Information Collections Branch (1-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to Infocollections.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0184), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

NRC FORM 640 (05-2016)		U.S. NUCLEAR REGULATORY COMMISSION UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER		5. SHIPPER - NAME AND FACILITY UNIT CORPORATION/FOR THE ACCT OF ADCO 13075 NEWBURGH ROAD LIVONIA, MI 48150		SHIPPER I.D. NUMBER 62213		7. NRC FORM 540 AND 540A PAGE 1 OF 1 NRC FORM 541 AND 541A 1 NRC FORM 542 AND 542A 1 ADDITIONAL INFORMATION PAGE(S)		8. MANIFEST NUMBER (Use this number on all continuation pages) 16-0016 R							
Instructions: See NUREG/BR-0204 for detailed instructions for completing this form: http://www.nrc.gov/reading-rm/doc-collections/nuregs/brochures/br0204/				USER PERMIT NUMBER		SHIPMENT NUMBER		<input checked="" type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR <input type="checkbox"/> GENERATOR TYPE (Specify)		9. CONSIGNEE - Name and Facility Address RAM SERVICES, INC. 510 COUNTY HIGHWAY V TWO RIVERS, WI 54241							
1. EMERGENCY TELEPHONE NUMBER (Include Area Code)				CONTACT		TELEPHONE NUMBER (Include Area Code)		SIGNATURE - Authorized consignee acknowledging waste receipt		DATE 11/09/2016							
ORGANIZATION				6. CARRIER - Name and Address ADCOM EXPRESS, INC. PO BOX 413 TINLEY PARK, IL 60477		EPA I.D. NUMBER		10. CERTIFICATION This is to certify that the herein-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. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the applicable requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.									
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		CONTACT JAMES BELL, SR.		TELEPHONE NUMBER (Include Area Code) (708) 429-3013		DATE 11/10/16							
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				EPA MANIFEST NUMBER		SIGNATURE - Authorized carrier acknowledging waste receipt		DATE 11/10/16		AUTHORIZED SIGNATURE TITLE DATE 11/10/16							
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	
UN 2915, RADIOACTIVE MATERIAL, TYPE A PACKAGE		WHITE YELLOW - II		0.1 +2.7		SOLID		CS-137 CO57 GE68		380.7 MBQ				1.4 CU FT.		16-0016-01	
FOR CONSIGNEE USE ONLY																	

NRC FORM 541

UNIFORM LOW-LEVEL RADIOACTIVE
WASTE MANAGEMENT

CONTAINER AND WASTE DESCRIPTION

1. MANIFEST TOTALS

NUMBER OF PACKAGES/ DISPOSAL CONTAINERS	NET WASTE VOLUME (m³/103)	NET WASTE WEIGHT (kg/lbs)	SPECIAL NUCLEAR MATERIAL (grams)			
			U233	U235	Pu	TOTAL
1	1.4	25				
ACTIVITY (MBq)						
ALL NUCLIDES			TRITIUM	C14	TO-98	H29
MBq mCi						
			SOURCE (kg)			

2. MANIFEST NUMBER

16-0016 R

3. PAGE 1 OF 1 PAGE(S)

4. SHIPPER NAME

USIT CORPORATION

SHIPPER ID NUMBER

62213

5. CONTAINER ID NUMBER/ GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (SEE NOTE 1)	7. VOLUME (m3/lbs)	8. WASTE & CONTAINER WEIGHT (kg/lbs)	9. SURFACE RADIATION LEVEL		10. SURFACE CONTAMINATION MBq/100 cm2		11. PHYSICAL DESCRIPTION			12. CHEMICAL DESCRIPTION			13. RADIOLOGICAL DESCRIPTION		14. WASTE CLASSIFICATION AS, AL, B, C
				α/β/hr	γ/β/hr	ALPHA	BETA GAMMA	11. WASTE DESCRIPTOR (SEE NOTE 2)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER	13. SORBENT, SOLIDIFICATION, STABILIZATION MEDIA (SEE NOTE 3)	CHEMICAL CHELATING	FORM AGENT	WEIGHT % CHELATING AGENT IF ≤0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL, OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENTAGE		
16-0016-01	4	1.4	25	350 mR/hr	X			36		NA	NP	0	CS-137, CO-57, GE-68	AU		
											</					

NOTE 1: Container Description Code. 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. Demineralizer
10. Gas Cylinder
11. Bulk, Unpackaged Waste
12. Unpackaged Components
13. High Integrity Container
19. Other, Describe in Item 8,
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 Filter
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. Contaminated Equipment
34. Organic Liquid (except oil)
35. Glassware or Labware
36. Sealed source/device
37. Paint or Plating
38. Evaporator Bottoms/Sludge/
Concentrates
39. Compactible Trash
40. Noncompactible Trash
41. Animal Carcass
42. Biological Material
(except animal carcass)
43. Activated Material
59. Other, Describe in Item 11, or
additional page

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 Dri
61. Celatom
62. Floor Dry/Supertine
63. Hi Dri
64. Safe T Sorb
65. Safe N Dri
66. Florco
67. Florco X
68. Solid A Sorb
69. Chemall 30
70. Chemall 50
71. Chemall 3030
72. Diocapert HP200
73. Diocapert HP500
74. Petrosel
75. Petrosel II
76. Aquesel
77. Aquesel II
88. Other, Describe in
Item 13 or additional page
- Solidification
80. Cement
91. Concrete (encapsulation)
92. Bitumen
93. Vinyl Chloride
94. Vinyl Ether Styrene
99. Other, Describe in Item 13,
or additional page
100. None
Required

APPROVED BY OMB: NO. 3150-0168
EXPIRES: 12/31/2016

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NRC FORM 542A
(05-2016)



UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST
MANIFEST INDEX AND REGIONAL COMPACT TABULATION (Continuation)

U.S. NUCLEAR REGULATORY COMMISSION

2. MANIFEST NUMBER

16-0016 R

3.

PAGE 1 OF 1 PAGE(S)

Instructions: See NUREG/BR-0204 for detailed instructions for completing this form: <http://www.nrc.gov/reading-mv/doc-collections/nuregs/brochures/br0204/>

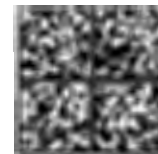
4. GENERATOR IDENTIFICATION NUMBER	5. GENERATOR NAME PERMIT NUMBER (IF APPLICABLE) AND TELEPHONE NUMBER	6. GENERATOR FACILITY ADDRESS	7. PREPROCESSED WASTE (OR MATERIAL) VOLUME (m ³)	8. MANIFEST NUMBER(S) UNDER WHICH WASTE (OR MATERIAL) RECEIVED AND DATE OF RECEIPT	9. WASTE CODE P = PROCESSED C = COLLECTED	10. ORIGINATING COMPACT REGION OR STATE	11. AS PROCESSED/COLLECTED TOTAL			
							A. SOURCE MATERIAL (kg)	B. SNM (g)	C. ACTIVITY (MBq)	D. VOLUME (m ³)
62313	USIT CORPORATION	13075 NEWBURGH ROAD LIVONIA, MI 48150		16-0016 R / 11/10/16	C	MI				



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