



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 F33), 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, NEOS-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 USIT CORPORATION/FOR THE ACCT OF ADCO 13075 NEWBURGH ROAD LIVONIA, MI 48150		SHIPPER I.D. NUMBER 62213 <input checked="" type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR <input type="checkbox"/> GENERATOR TYPE (Specify)		7. NRC FORM 540 AND 540A PAGE 1 OF <u>1</u> PAGE(S) NRC FORM 541 AND 541A <u>1</u> PAGE(S) NRC FORM 542 AND 542A <u>1</u> PAGE(S) 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 _____		CONTACT _____		TELEPHONE NUMBER (Include Area Code) _____		9. CONSIGNEE - Name and Facility Address RAM SERVICES, INC. 510 COUNTY HIGHWAY V TWO RIVERS, WI 54241									
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) _____		ORGANIZATION _____		6. CARRIER - Name and Address ADCOM EXPRESS, INC. PO BOX 413 TINLEY PARK, IL 60477		EPA I.D. NUMBER _____		SIGNATURE - Authorized consignee acknowledging waste receipt _____ 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 _____		CONTACT _____		SHIPPING DATE 11/09/2016		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.									
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 DSO		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" WHITE 4 YELLOW II		13. TRANSPORT INDEX 0.1 42.9		14. PHYSICAL AND CHEMICAL FORM SOLID		15. INDIVIDUAL RADIONUCLIDES CS-137 CO57 GE68		16. TOTAL PACKAGE ACTIVITY IN SI UNITS 380.7 MBQ		17. LSA/SCO CLASS _____		18. TOTAL WEIGHT OR VOLUME (Use appropriate units) 1.4 CU FT.		19. IDENTIFICATION NUMBER OF PACKAGE 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/ft³)	NET WASTE WEIGHT (kg/lbs)	SPECIAL NUCLEAR MATERIAL (grams)			
			U233	U235	Pu	TOTAL
1	1.4	25				
ACTIVITY (MBq)						
ALL NUCLIDES		TRITIUM	C14	To-99	I129	SOURCE (kg)
MBq mCi						

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/ft³)	8. WASTE & CONTAINER WEIGHT (kg/lbs)	9. SURFACE RADIATION LEVEL		10. SURFACE CONTAMINATION MBq/100 cm²		11. PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION		16. WASTE CLASSIFICATION AS, AL, B, C
				α/whr	β/whr	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 F 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	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 8, 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	30. Cation Ion-Exchange Media	36. Compactible Trash
21. Incinerator Ash	31. Anion Ion-Exchange Media	40. Noncompactible Trash
22. Soil	32. Mixed Bed Ion-Exchange Media	41. Animal Carcass
23. Gas	33. Contaminated Equipment	42. Biological Material
24. Oil	34. Organic Liquid (except oil)	(except animal carcass)
25. Aqueous Liquid	35. Glassware or Labware	43. Activated Material
26. Filter Media	36. Sealed source/device	58. Other, Describe in Item 11, or additional page
27. Mechanical Filter	37. Paint or Plating	
28. EPA or State Hazardous	38. Evaporator Bottoms/Sludge/Concentrate	
29. Demolition Rubble		

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	66. Florco	73. Diocapri HP500	80. Cement	100. None
	61. Celatom	67. Florco X	74. Petroset	91. Concrete (encapsulation)	Required
	62. Floor Dry/	68. Solid A Sorb	75. Petroset II	92. Bitumen	
	Superfine	69. Chemall 30	76. Aquaset	93. Vinyl Chloride	
	63. Hi Dri	70. Chemall 50	77. Aquaset II	94. Vinyl Ether Styrene	
	64. Safe T Sorb	71. Chemall 3030	89. Other, Describe in Item 13 or additional page	99. Other, Describe in Item 13, or additional page	
	65. Safe In Dri	72. Diocapri HP200			

APPROVED BY OMB: NO. 3160-0168
 EXPIRES: 12/31/2016

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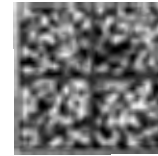
NRC FORM 542A (05-2016)		U.S. NUCLEAR REGULATORY COMMISSION						2. MANIFEST NUMBER			
		UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST MANIFEST INDEX AND REGIONAL COMPACT TABULATION (Continuation)						16-0016 R			
								3. PAGE <u>1</u> OF <u>1</u> PAGE(S)			
Instructions: See NUREG/BR-0204 for detailed 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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IWM-SMP 60532

