



Trinity College
HARTFORD CONNECTICUT

Branch 3
06-09045-03
03010179

ATTN:GLTS
Michael Reichard
U.S. NRC, Region 1
Division of Nuclear Materials Safety
2100 Renaissance Blvd, Suite 100
King of Prussia, PA 19406

Feb. 14, 2014

REC R G 1 0304 14PM 0720

Dear Mr. Reichard,

This is to inform you of disposal of our ancient scintillation counter. It is a RackBeta Spectral 1219, serial # 577. It was received by TOXCO, Inc. at Toxco Materials Management Center, 109 Flint Road, Oak Ridge, TN 37830. Their radioactive material license # is R-01037-E16, and the date of transfer was Dec. 10, 2013.

The RackBeta is not going to be used by the recipient, but disposed of at their facility. I've enclosed a copy of the paperwork detailing their reception of the device.

Sincerely,

Kathleen Archer
RSO for Trinity College
License # 06-09045-03

583445

NMSS/RGNI MATERIALS-002

ML14084A536

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NRC FORM 540 (8-2010) U.S. NUCLEAR REGULATORY COMMISSION UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER		5. SHIPPER - NAME AND FACILITY ESI @ Trinity College 300 Summit Street Hartford, CT 06010		SHIPMENT ID NUMBER 0233-121013TX X COLLECTOR PROCESSOR		7. FORM 540 AND 540A PAGE 1 OF 1 PAGE(S) FORM 541 AND 541A 1 PAGE(S) FORM 542 AND 542A 1 PAGE(S) ADDITIONAL INFORMATION NONE PAGE(S)		8. MANIFEST NUMBER (Use this number on all continuation pages) 0233-121013TX									
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) 855-347-8197		USER PERMIT NUMBER T-MD004-L13		SHIPMENT NUMBER 0233-121013TX		GENERATOR TYPE (Specify)		9. CONSIGNEE - Name and Facility Address Toxco Material Management Center Operated By Toxco Material Management Center 109 Flint Road Oak Ridge, TN 37830									
ORGANIZATION 3E Company		CONTACT Erin Mostoller		TELEPHONE NUMBER (Include Area Code) (860) 297-2227		CONTACT Rick Low		TELEPHONE NUMBER (Include Area Code) (865) 482-5532									
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 Truck #: _____ Trailer #: _____ Ecology Services, Inc. 9135 Guilford Road, Suite 200 Columbia, MD 21046		EPA I.D. NUMBER MDR000524712		SIGNATURE - Authorized consignee acknowledging waste receipt									
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If "Yes", provide Manifest Number ==>		EPA MANIFEST NUMBER N/A		CONTACT Greg Keck		SHIPPING DATE 12/10/2013		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 in proper condition for transportation and disposal in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulation									
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 MBq mCi		17. LSA/SCO CLASS		18. TOTAL WEIGHT OR VOLUME (Use appropriate units)		19. IDENTIFICATION NUMBER OF PACKAGE	
Non-Radioactive per DOT LIQUID SCINT COUNTER 1 - PALLET		NA		NA		SOLID/METAL OXIDES		RA-226		3.7000E-01 (1.0000E-02)		NA		8.00 ft ³ 200.00000 lb		TC-1 (13-002320)	

FOR CONSIGNEE USE ONLY	20. Generator Certification Statement A) Radioactive Materials. Certification is hereby made that this shipment of low-level radioactive waste has been prepared in accordance with a radioactive waste management program which has been approved by the Nuclear Regulatory Commission or an Agreement State regulatory agency and with the current revision of the site Material Acceptance Criteria. B) Hazardous Materials. Generator hereby certifies that this material does (or) does not contain a hazardous waste as defined in 40 CFR 261. C) Data. Generator hereby represents and warrants that all data set forth in this (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST) are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and site Radioactive Material Licenses. D) INFECTIOUS SUBSTANCE: Generator hereby certifies that this material does not contain an infectious substance as defined in 49CFR 173.134	
	Karen Misbach _____ Print Name Signature _____ Date 12/10/13	

NRC FORM 541 (8-2010) U.S. NUCLEAR REGULATORY COMMISSION UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST CONTAINER AND WASTE DESCRIPTION Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste	1. MANIFEST TOTALS							2. MANIFEST NUMBER 0233-121013TX	
	NUMBER OF PACKAGES/ DISPOSAL CONTAINERS	NET WASTE VOLUME	NET WASTE WEIGHT	SPECIAL NUCLEAR MATERIAL (grams)					
				U-233	U-235	Pu	TOTAL		
	1	m ³ 0.22654 ft ³ 8.00000	kg 83.91416 lb 185.00000	NP	NP	NP	NP		
	ACTIVITY (MBq/mCi) (LLD UNITS IN µCi/cc)							SOURCE	
ALL NUCLIDES		TRITIUM	C-14	Tc-99	I-129				
MBq	3.7000E-01	NP	NP	NP	NP	NP			
mCi	1.0000E-02	NP	NP	NP	NP	NP			

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER								16. WASTE CLASSIFICATION AS - Class A Stable AU - Class A Unstable B - Class B C - Class C		
5. CONTAINER IDENTIFICATION NUMBER/ TRANSPORT PERMIT NUMBER	6. CONTAINER DESCRIPTION (See Note 1)	7. VOLUME m ³ ft ³	8. WASTE AND CONTAINER WEIGHT kg lb	9. SURFACE RADIATION LEVEL mSv/hr mrem/hr	10. SURFACE CONTAMINATION MBq/100 cm ² dpm/100 cm ²		11. PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION				
					ALPHA	BETA-GAMMA	11. WASTE DESCRIPTOR (See Note 2)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER m ³ ft ³	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT				
											RADIONUCLIDES	MBq	mCi			
# - Innerpack Container																
13-002320 (TC-1)	PALLET	0.22654	90.71801	< 0.0005	< 0.00003674	< 0.00003674	59(LIQUID SCINT COUNTER)	0.22654	100	SOLID METAL OXIDES / NP	NP	RA-226	3.7000E-01	1.0000E-02	AU	
Origin: CT Trinity College 300 Summit Street Hartford, CT 06010		8.00000	200.00000	< 0.05	< 220	< 2200		8.00000					3.7000E-01	1.0000E-02		
Package Total													3.7000E-01	1.0000E-02		
Shipment Total		0.22654	90.71801										3.7000E-01	1.0000E-02		
		8.00000	200.00000													

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

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|-------------------------------|---|
| 1. Wooden Box or Crate | 9. Demineralizer |
| 2. Metal Box | 10. Gas Cylinder |
| 3. Plastic Drum or Pail | 11. Bulk, Unpacked 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 | 44. 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: Sorption, Solidification and Stabilization Media Codes. (Choose up to three which predominate by volume). For media meeting disposal site structural stability requirements, the numerical code must be followed by "-S". For all solidification media, the vendor and brand name must also be identified in item 13. Code 100=None Required

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|--------------------------|------------------|---------------------|--|--------------------|--|--|--|
| Sorption | | | | Solidification | | | |
| 60. Speedi Dri | 64. Safe T Sorb | 69. Chemsil 30 | 74. Petroset | 90. Cement | 94. Vinyl Ester Styrene | | |
| 61. Celeton | 65. Safe N Dri | 70. Chemsil 50 | 75. Petroset II | 91. Concrete | 99. Other. Describe in item 13, or additional page | | |
| 62. Floor Dry/ Superfino | 66. Florco | 71. Chemsil 3030 | 76. Aquaset II | 92. Bitumen | 100. None Required | | |
| 63. Hi Dri | 67. Florco X | 72. Dicaperl HP 200 | 77. Aquaset II | 93. Vinyl Chloride | | | |
| | 68. Solid A Sorb | 73. Dicaperl HP500 | 89. Other. Describe in item 13 or additional page. | | | | |

NRC FORM 542 (8-2010)		U.S. NUCLEAR REGULATORY COMMISSION		1. WASTE COLLECTOR/PROCESSOR						2. MANIFEST NUMBER 0233-121013TX							
				UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST			NAME ESI @ Trinity College			SHIPPER USE ONLY			3. PAGE 1 OF 1 PAGE(S)				
MANIFEST INDEX AND REGIONAL COMPACT TABULATION										IDENTIFICATION NUMBER T-MD004-L13							
List all original "PROCESSED WASTE" generators (if any) before "COLLECTED WASTE" generators										AS PROCESSED/COLLECTED TOTAL							
4. S.C. TRANSPORT PERMIT NUMBER	5. GENERATOR NAME AND TELEPHONE NUMBER	6. GENERATOR FACILITY ADDRESS	6A. WASTE DESCRIPTION (NOMENCLATURE)	7. PREPROCESSED WASTE (OR MATERIAL) VOLUME		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. A. SOURCE MATERIAL				B. SNM	C. ACTIVITY		D. VOLUME	
				m ³	ft ³				(kg)	(lb)	MBq	mCi		m ³	ft ³		
	Trinity College (860) 297-2227	300 Summit Street Hartford, CT 06010	Other	0.22654	8.00000	Onsite Generation 11/20/2013	C	CT	NP	NP	NP	3.7000E-01	1.0000E-02	0.22654	8.00000	185.00000	<0.1
TOTALS OF ALL PAGES (FORMS 542 AND 542A)									NP	NP	NP	3.7000E-01	1.0000E-02	0.22654	8.00000	185.00000	N/A