

 **Cooper** University Hospital

October 6, 2005

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NRC-111

Sandra Gabriel, Ph.D.
Senior Health Physicist
Region I, Medical Branch
Division of Nuclear Materials Safety
U.S. Nuclear Regulatory Commission, Region I
475 Allendale Road
King of Prussia, PA 19406-1415

03002512

**Re: addition information request for NRC license # 29-08285-03, Mail Control
Number 136936**

Dr. Gabriel:

Enclosed is the Low-Level Radioactive Waste Manifest for the two Am-241 sealed sources that were received at AEA Technology on June 28, 2005.

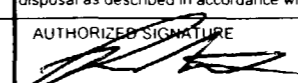
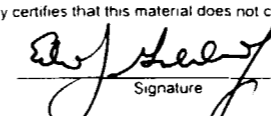
Sincerely,



Edward J. Goldschmidt Jr., M.S., D.A.B.M.P.

Radiation Safety Officer
The Cooper Health System
Robert Wood Johnson Medical School at Camden
One Cooper Plaza
Camden, NJ 08103

copy

FORM 540 UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER		Philotechnics		5 SHIPPER -- NAME AND FACILITY Philotechnics @ Cooper Health System 1 Cooper Plaza, Office B74 Radiation Safety Office Camden, NJ 08103		SHIPMENT I.D. NUMBER 0519-060105AEA		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) 0519-060105AEA							
1 EMERGENCY TELEPHONE NUMBER (Include Area Code) 800-424-9300		S.C. PERMIT # NA		SHIPMENT NUMBER 0519-060105AEA		GENERATOR TYPE (Specify) COLLECTOR		9 CONSIGNEE - Name and Facility Address AEA Technologies 6765 Langley Drive Baton Rouge, LA 70809		CONTACT Rusty Barrett TELEPHONE NUMBER (Include Area Code) 225-751-5893							
ORGANIZATION CHEMTREC		CONTACT Ed Goldschmidt		TELEPHONE NUMBER (Include Area Code) 856-342-2723		EPA I.D. NUMBER MOR00501973		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 1		6 CARRIER -- Name and Address R & R Trucking 302 Thunder Road Duenweg, MO 64841		SHIPPING DATE 6/1/05		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 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 =====>		EPA MANIFEST NUMBER NA		CONTACT Transportation		TELEPHONE NUMBER (Include Area Code) 800-625-6885		DATE 6-1-05		AUTHORIZED SIGNATURE 		TITLE Barrett		DATE 6-1-05			
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	
RQ, Radioactive Material, Type A package, 7, UN2915		White - I		NA		Solid Sealed Sources/Am-241		Am-241		8.8800E+02 2.4000E+01		NA		50. LBS; 0.68 FT3		CH5	
FOR CONSIGNEE USE ONLY				20. 20 GENERATOR CERTIFICATION STATEMENT A) Radioactive Materials Certification is hereby made to Philotechnics, Ltd that this shipment of low-level radioactive material/waste has been prepared in accordance with a radioactive waste management program which has been approved by the NRC or an Agreement State regulatory agency and furthermore meets the criteria set forth in 49 CFR 173.443 concerning contamination controls on the external surfaces of the packages B) Data Generator hereby represents and warrants that all data set forth in this UNIFORM RADIOACTIVE WASTE MANIFEST are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and the above mentioned processors Radioactive Material Licenses C) Hazardous Materials Generator hereby certifies that this material does not contain a hazardous waste as defined in 40 CFR 261. () N/A <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> Ed Goldschmidt Print Name </div> <div style="text-align: center;">  Signature </div> <div style="text-align: center;"> 6/1/05 Date </div> </div>													

FORM 541

Philotechnics

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

NUMBER OF PACKAGES/ DISPOSAL CONTAINERS	NET WASTE VOLUME	NET WASTE WEIGHT	SPECIAL NUCLEAR MATERIAL (grams)				TOTAL
			U-233	U-235	Pu		
1	m3 0.0193	kg 22.6796					
	ft3 0.6800	lb 50.0000	NP	NP	NP	NP	
ACTIVITY							
ALL NUCLIDES		TRITIUM	C-14	Tc-99	I-129	SOURCE	
MBq	8.8800E+02	NP	NP	NP	NP	(kgs) NA	
mCi	2.4000E+01	NP	NP	NP	NP	(lbs) NA	

2. MANIFEST NUMBER 0519-060105AEA
3. PAGE 1 OF 1 PAGE(S)
4. SHIPPER NAME Philotechnics @ Cooper Health
SHIPMENT ID NUMBER 0519-060105AEA

DISPOSAL CONTAINER DESCRIPTION

WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER

5 CONTAINER IDENTIFICATION NUMBER / GENERATOR ID NUMBER	6 CONTAINER DESCRIPTION (See Note 1) PROCESS REQUESTED (See Note 1A) BURIAL/DISPOSITION (See Note 2A)	7 VOLUME (m3) (ft3)	8 WASTE AND CONTAINER WEIGHT (kg) (lb)	9 SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10 SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11 WASTE DESCRIPTOR (See Note 2)	12 APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		13 SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14 CHEMICAL DESCRIPTION		15 RADIOLOGICAL DESCRIPTION			16 WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
					ALPHA	BETA-GAMMA		CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF >0.1%		INDIVIDUAL RADIONUCLIDES AND ACTIVITY AND CONTAINER TOTAL, OR TOTAL ACTIVITY AND RADIONUCLIDE PERCENT					
					RADIONUCLIDES			MBq	mCi							
CH5/0519	4	0.0193	22.6796	<5.0000E-03	<3.6740E-06	<3.6740E-05	59-SEALED SOURCES	0.0193	100	Sealed Sources/Am-241/NP	NP	Am-241	8.8800E+02	2.4000E+01	AU	
		0.6800	50.0000	<5.000E-01	<2.200E+02	<2.200E+03		0.6800	100			Subtotal	8.8800E+02	2.4000E+01		
Shipment Totals		0.0193	22.6796									Total	8.8800E+02	2.4000E+01		
		0.6800	50.0000										8.8800E+02	2.4000E+01		

NOTE 1: Container Description Codes. For containers/waste requiring disposal in approved structural over-packs 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 1A: Process Descriptors

NT/VR Non Thermal / Volume Reduction
NT/SC Non Thermal / Super Compaction
NT/DC Non Thermal / Decontamination
NT/DCY Non Thermal / Decay
NT/PT Non Thermal / Pass Through
NT/SR Non Thermal / Survey & Release
NT/STB Non Thermal / Stabilize
NT/FL Non Thermal / Fill
NT/SAB Non Thermal / Shred & Bail
T/SFG Thermal / Saf-Glas
T/BPU Thermal / Batch Processing Unit
T/VIT Thermal / Vitrification Process

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 2A: End Disposition Descriptors

BSC Barnwell, SC
ECU Envirocare, UT
USE US Ecology, Richland WA
DOE DOE, Hanford WA
RTG Return to Generator
O Other
NDV No Disposal Volume
TBD To be Determined
WCS Waste Control Specialists, Texas
FR Free Release

Note 3: 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" and the media vendor and brand name must also be identified in Item 13. Code 100=NONE REQUIRED.)

Solidification	
90. Cement	94. Vinyl Ester Styrene
91. Concrete (encapsulation)	99. Other Describe in item 13, or additional page
92. Bitumen	
93. Vinyl Chloride	100. None Required

FORM 542

**UNIFORM LOW-LEVEL RADIOACTIVE
WASTE MANIFEST**

MANIFEST INDEX AND REGIONAL COMPACT TABULATION

List all original "PROCESSED WASTE" generators (if any)
before "COLLECTED WASTE" generators.

Philotechnics

1. WASTE COLLECTOR/PROCESSOR

NAME
Philotechnics @ Cooper Health System

SHIPPER USE ONLY

IDENTIFICATION NUMBER
0519

SHIPPING DATE
6/1/05

2. MANIFEST NUMBER

0519-060105AEA

3. PAGE 1 OF 1 PAGE(S)

4 GENERATOR IDENTIFICATION NUMBER	5 GENERATOR NAME PERMIT NUMBER (IF APPLICABLE) AND TELEPHONE NUMBER	6 GENERATOR FACILITY ADDRESS	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 AS PROCESSED/COLLECTED TOTAL						
			(m3)	(ft3)				A SOURCE MATERIAL (kg) (lb)	B SNM (g)	C ACTIVITY (MBq) (mCi)	D VOLUME (m3) (ft3)			
0519 166	Philotechnics @ Cooper Health System 856-342-2723	1 Cooper Plaza, Office B74 Radiation Safety Office Camden, NJ 08103	0.0193	0.6816	0519-060105AEA (06/01/2005)	C	NJ	0.0000E+00	0.0000E+00	0.0000E+00	8.8800E+02	2.4000E+01	0.0193	0.6800
TOTALS OF ALL PAGES (FORMS 542 AND 542A)								0.0000E+00	0.0000E+00	0.0000E+00	8.8800E+02	2.4000E+01	0.0193	0.6800

UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST
ISOTOPES REPORT

For Manifest # 0519-060105AEA
Philotechnics

<u>Isotope</u>	Total Activity	
	<u>(MBq)</u>	<u>(mCi)</u>
Am-241	8.8800E+02	2.4000E+01