

University of Connecticut Administration and Operations Services

February 21, 2008

Environmental Health and Safety

MS 16

Steven Courtemanche Commercial and R&D Branch U.S. Nuclear Regulatory Commission Region I 475 Allendale Road King of Prussia, Pennsylvania 19406-1415 K-4

Docket No. 03010576 Mail Control No. 141666 06-01450-47

Dear Mr. Courtemanche:

This is in response to your letter of January 30, 2008 requesting additional information regarding our original CFA application of March 10, 2005. We are requesting the following revisions to our current license (06-01450-47) to make it consistent with the revised CFA application:

1. Deletion of sources:

The following sources have been disposed of and are to be deleted:

Item 6L. Californium 252. (Sealed sources (Isotope Products Laboratories Model Nos. FF-252/SK-3652 and FF-362). 50 microcuries per source and 100 microcuries total.

Item 6M. Plutonium 239. Sealed sources. (Sealed Neutron sources (M1180, M1183, M1181, M1182). 80 grams (5 curies).

Item 6.N. Sealed sources Cesium 137 (Amersham Searle Model 2000). 500 millicuries.

Included in Appendices A, B, and C is disposal documentation consisting of the final leak tests and letters from the recipients of the above sources.

2. Removal of Noank Research Laboratory as a location of use.

Noank Marine Laboratories is to be deleted as a location of use. A review of the Noank records indicated that this facility was free released for unrestricted use in 1992. Copies of this documentation are in Appendix D.

Sincerely

Chief Robert Hudd

Associate Vice-President for Public and Environmental

Enclosures: Appendices A-D

An Equal Opportunity Employer

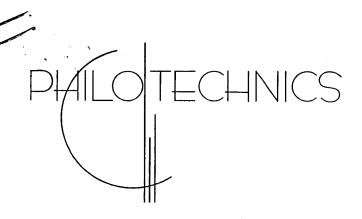
3102 Horsebarn Hill Road Unit 4097 Storrs, Connecticut 06269-4097

Telephone: (860) 486-3613 Facsimile: (860) 486-1106 web: http://www.ehs.uconn.edu 141666 NMSS/RGNI MATERIALS-002

APPENDIX A

DOCUMENTATION ON DISPOSAL OF:

Item 6L. Californium 252. (Sealed sources (Isotope Products Laboratories Model Nos. FF-252/SK-3652 and FF-362). 50 microcuries per source and 100 microcuries total.



May 5, 2003

Ms. Amy Courchesne Univ. of Connecticut EH&S 3102 Horsebarn Road, U-97 Storrs, CT 06269-4097

Subject:

Shipment Receipt Acknowledgement

Dear Amy:

In accordance with the requirements of 10 CFR 20, Appendix G, Section III, C.1., the attached letter is provided as your notice of receipt and acceptance of the radioactive waste materials specified on the manifest. Manifest No. 0257-032503DTK was received at Duratek on April 28, 2003.

This letter is acknowledgement of receipt only. Any manifest discrepancies found during unloading or processing will be reported at a later date.

Please contact me if you have any questions or require additional information. I can be reached at 888-RADWASTe or 865-285-3015 (direct), or via email at kdwolfe@philotechnics.com.

Sincerely,

Philotechnics, Ltd.

Kelli Wolfe

Customer Service Invoicing Assistant

kw Enclosure



Tuesday, April 29, 2003

Don E. Hartje Philotechnics, Ltd P.O. Box 4489 Oak Ridge, TN 37831-4489

Dear Mr. Hartje:

In compliance with the requirements of 10 CFR 20, Appendix G, Section III, C.1, the attached signed shipping manifest copies are your notice of receipt and acceptance of the radioactive waste materials specified on the manifests.

 Manifest Number
 Date Received

 2284-T031870
 04/28/2003

This is acknowledgement of receipt only. Any manifest discrepancies found during manifest review, unloading or processing will be listed on page 2 of this letter.

Thank you for your business.

Sincerely,

Shipping and Receiving

cc: Manifest File Shipping and Receiving file





Manifest Discrepancies

none

FORM 540 UNIFORM LOW-LEVEL RADIOACTIV WASTE MANIFEST	Philotechnics E	Philotechnic Enviorn, He	ER NAME AND FACILITY ce @ Univ. of Connecticut alth and Safety bern Road, U-97 04249-4097			SHIPA 025	TENT I.D. NUMBER 17-032503DTK COLLECTOR PROCESSOR	\dashv	FORM 540 AND 540A FORM 541 AND 541A FORM 542 AND 542A ADDITIONAL INFORN		PAGE(S) 2 PAGE(S) 1 PAGE(S) None PAGE(S)	8. MANIFEST NU (Use this numb pages) 0257-032	er on all continuation	
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1 EMERGENCY TELEPHONE NUMBER (Include Area Code) 865-806-7991		CONTACT Amy Cou	rchesse				PHONE NUMBER		uratek, Inc. 560 Bear Creek F	₹d.		TELEPHONE NUMB	ER (Include Area Code)	
ORGANIZATION Philotechnics						860	486-3613		ak Ridge, TN 37			865-525-5091		
IS THIS AN "EXCLUSIVE USE" SHIPMENT? TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST ON THIS M		6. CARRIE Hittman Trad 628 Galtahe			ļ	TNDst	D. NUMBER 37783065 ING DATE	عا		resporter	ser.	19810	3	
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4. DOES EPA REGULATED VES PA MANIFEST NUMBER VES MANIFEST NCOMPANY X NO		CONTACT Stac	y Brackett			(Includ	HONE NUMBER le Ares Code) 481-0222	Certi	lies that the materials s	re classified, package	d, marked, and labeled	is of the Department of Transportation. This also and are in proper condition for transportation and \$ 20 and 81, or equivalent state regulations.		
THIS SHIPMENT? If "Yes," provide Manifest Muniber ************************************	• 1		- Authorized carrier acknowledge Review Statis		ceipt	DATE			THORIZED SIGNATUR		TITLE	//	DATE	
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(Including proper shipping name, hazard class, UN ID number, and any additional information	DOT LABEL "RADIOACTIVE"	TRANSPORT INDEX	PHYSICAL AND CHEMICAL FORM			RADI	DIVIDUAL ONUCLIDES		TOTAL PA	ACKAGE ACTIVITY mCi	17. LSA/SCO CLASS	18. TOTAL WEIGHT OR VOLUME (Use appropriate units)	19. IDENTIFICATION NUMBER OF PACKAGE	
Radioactive material, excepted package-limited quantity of material, 7, UN2910		NA	Solid Metal Oxides/Pa,Pl,Cl-Incin.		-14 H	3	Th-232 U-	238	2.9552E+02	7.9868E+00	NA	55. LBS; 7.5 FT3	1224	
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Radioactive material, excepted package-limited quantity of material, 7, UN2910		NA .	Solid Metal Oxides/Pa,Pl,Cl-Incin.	1 -	-14 H	3			8.7590E+00	2.3673E-01	NA	60. LBS; 7.5 FT3	1237	
Radioactive material, excepted package-limited quantity of material, 7, UN2810	NA .	NA .	Solid Metal Oxides/Pa,Pi,Ci-Incin.		-14 C	-252	H-3		2.2840E+02	6.1730E+00	NA	58. LBS; 7.5 FT3	1238	
Radioactive material, excepted package-limited quantity of material, 7, UN2910	NA	NA	Solid Metal Oxides/Pa,Pl,Cl-Incin.		-3				1.4401E+02	3.8922E+00	NA	68. LBS; 7.5 FT3	1239	
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			MA rec C) Ha	ANIFEST are gulations and izardous Mati	true and corr the above mo erials. Gener	ect in all i intioned i	respects and in acco processors Radioact	rdance i	with all applicable gove	mmental laws, rules,				
F0004 (4) 44			<u></u>	40 CFR 251.	Courch Name	<u>es ne</u>	anis	Signatur	cheorie :	3/12/18				

FORM 540 (10-96)

March 25, 2003 Shipment Totals (mCi):

DAW

5.9772
6.9368
0.23573
6.17
3.8922
1.5558
24.76773
0.0004
0.001
0.00012

C14;	2.0007
	0.08001
	0.001
	0.001
	0.0051
C14 DAW Total:	2.0878
S35 DAW Total:	0.0000
Cf-252 DAW Total:	0.002
U-238 DAW Total:	0.0088
DAW TOTAL:	26.8679

LSV'S

P32	0.25
	0.0021
P32 Total:	0.2521
I-125 LSV Total:	0.041
H3	0.02836
	4.1301
	1.4533
H3 LSV Total:	5.61176
C14	0.0009
	0.002
C14 LSV Total:	0.0029
S35	0.0261
	0.0511
	0.0182
S35 LSV Total:	0.0954
LSV TOTAL:	6.00316

MIXED WASTE

l	Н3	Total:	 3.1
н	 		

UNIVERSITY OF CONNECTICUT RADIATION SAFETY OFFICE U-97 SEALED SOURCE CONTAMINATION/LEAK TEST REPORT FORM

INVESTIGATOR: PHODE	LOCA1	TION: RZRH D	ATE: 4/28/02
ISOTOPE: CF-2,2 ACTIV	VITY: <u>17.724</u> INSTR	UMENT: MAJS SP	CC. RIOTON FF252
· 	·		

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CONTAMINATION/LEAK TEST RESULTS:

LOCATION	GROSS CPM	BKGND CPM	NET CPM	TIME MIN	%EFF	DPM	μCi
source Housin	20.34	15.55	4.79	1.0	74.23	6.46	2.5×10-62/
		_			_		
							

If the inspection or leak test reveals any construction defects or 0.005 microcuries or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with applicable regulations.

7				
Leak Test MDA (NUREG-1556, Vol.5)	=	$\frac{2.71 + 4.65\sqrt{(B_R \times t)}}{t \times E \times 2.22E6}$	= 2.71+4.65 N 15.55 X) 1 x ,7423 x 2.22 x 106 = 1.3 X /	5-5 M

Where MDA = activity level in μ Ci

B_R = background count rate in counts per minute

t = counting time in minutes

E = detector efficiency in counts per disintegration

Radiation Safety Specialist

人名法斯斯斯

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USER: 1 ID:CF 252
                         PRESET TIME: 1.00
                                                      FRI 28 JUN 2002 11:02
  SAMPLE REPEAT: 1 CYCLE REPEAT: 1 SCR:N RS232:N
  H#: 2 AQC:Y QCF:N RCM:N
  CHANNEL 1-LL: 0 UL: 400 251GMA: 2.00 BKG SUB: 14.72 BKG 251G:
                                                                1.92 LSR:
  CHANNEL 2-LL:400 UL: 670 281GMA: 2.00 BKG SUB: 15.55 BKG 281G:
                                                                 1.87 LSR:
                                                                             0
 CHANNEL 3-LL:670 UL:1000 28IGMA: 2.00 BKG SUB: 13.54 BKG 28IG:
                                                                 2.00 LSR:
  DUAL LABEL DPM. SET UP ON FRI 31 MAY 2002 09:29
 UNKNOWN ID:
                                 UNKNOWN REPLICATES: 1
  UNKNOWN NORM FACTOR ISO1:0 1.00000 ISO2:0 1.00000
 UNKNOWN UNITS
                     ISO1:DPM
                                    ISO2: DPM
  CALCULATE COEFF: N HALF LIFE (DAYS) ISO1: N
                                                     ISO2:N
 QUENCH COEFF ISO1, CH1 A: 4.074299 B:-0.0039357 C:-0.00000B3 D:-0.000000391
              ISD1, CH2 A: 0.2645090 B:-0.0026305 C:0.00002635 D:-0.000000474
              ISO2, CH1 A: 2.825929 B:0.00028935 C:0.00000073 D:-0.0000000332
              ISO2, CH2 A: 4.356901 B:-0.0005793 E:0.00000236 D:-0.000000151:
 QUENCH LIMITS
                 LOW:0.500
                              HIGH: 302,5
         TIME ISO1 DFM
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University of Connecticut, Dept. Environmental Health & Safety, Radiation Safety Section CONTAMINATION SURVEY REPORT FORM Date: 6/28/02 Purpose: Package Receipt Survey: Lab Inspection Result: Equipment Free Release Survey: Incident Remediation: Laboratory Free Release Survey: Other (describe): PHARM ng: | HARA Room: 12/4
If space to left is checked: DECONTAMINATE, SURVEY, and SUBMIT COPY OF FINAL RESULTS TO Building: () RADIATION SAFETY (U-4097, fax: 860-486-1106). If attempts to decontaminate indicated areas to less than 100dpm/100cm² are unsuccessful contact Radiation Safety 860-486-3613 for further instruction. If space to left is checked; see attached survey documentation. If space to left is checked: all results less than 100dpm/100cm² Survey results information provided to L.I./laboratory personnel. Date Provided: Location Time **CPM** % Bkgd. % CPM> **DPM** Sample Eff. Bkgd. Number (min) 2sig. **CPM** EXT. CYLINDRICAL HOUSING 1 2 FOLLOWING OPENING 3 INT, CYLINDRICAL HOUSING SOURCE HOLDING APPARATUS INTERNAL APPARATUS INTERNAL HOUSING VACICHMERCA EXTERNAL VACUUM CHAMBER

Report Prepared by: 1/2/4/205	Signature:	441211	
N:\radsaf\forms\Contamination Survey Results Dece	mber 2001.doc		Continuation (

APPENDIX B

DOCUMENTATION ON DISPOSAL OF:

Item 6M. Plutonium 239. Sealed sources. (Sealed Neutron sources (M1180, M1183, M1181, M1182). 80 grams (5 curies).





OODI

N2 Advanced Nuclear Technology Off-Site Source Recovery (OSR) Project P.O. Box 1663, Mail Stop: J552 Los Alamos, New Mexico 87545 505-667-6701/Fax: 505-665-7913

Date: February 6, 2006 Refer to: N2: 06-038

Samuel J. Collins Nuclear Regulatory Commission 475 Allendale Road King of Prussia, PA 19406-1415

Re: ATRC#2003:003, License#SNM-1889

Dear Mr. Collins:

Enclosed please find a signed Authorization to Transfer/Relinquishment of Custody form concerning:

University of Connecticut 3102 Horsebarn Hill Road Storrs, CT 06269

The radioactive sources described on the form have been removed from the University of Connecticut in Storrs, CT and are in storage at Los Alamos National Laboratory. These sources have been transferred to Department of Energy (DOE) ownership and are being stored under DOE license exemption.

This action was completed as part of the Off-Site Source Recovery (OSR) Project managed by this office. If you need any further information on this action, please contact the OSR Project Office at 505/667-6701.

Sincerely,

Shelby Leonard

Team Leader OSR Project

SL/lh

Cy:

Warren Church, University of Connecticut Michele Burgess, NRC HQ Robert Campbell, U.S. DOE, NA-211 Joel Grimm, DOE-AL/WMD N2 File OSRP File

Los Alamos **NATIONAL LABORATORY**

Type: 239Pu/Be Serial No: M1180

ATRC # 2003:003

Off-Site Source Recovery Project Authorization to Transfer/Relinquishment of Custody

SOURCE OWNER:

University of Connecticut

TELEPHONE:

860-486-1108

CONTACT NAME:

Warren Church

FAX:

Mfg. Date: 11/28/1961 Curies: 1.819 Grams Isotopic: 28.950

860-486-1106

ADDRESS:

3102 Horsebarn Hill Road

Unit 4097

Storrs, CT 06269

University of Connecticut is authorized by the University of California at Los Alamos National Laboratory (UC/LANL), on behalf of the U.S. Department of Energy (DOE), to transfer the sealed source(s) indicated below to Los Alamos National Laboratory.

University of Connecticut hereby relinquishes and UC/LANL, on behalf of DOE, hereby accepts all custody of the sealed source(s) indicated below upon receipt or acceptance of the sources at Los Alamos National Laboratory.

SOURCE INFORMATION

			•		
Гуре: 239Ри/Ве	Serial No: M	11181 N	Mfg. Date: 11/28/1961	Curies: 0.900	Grams Isotopic: 14.330
Гуре: 239Ри/Ве	Serial No: M	[1182 N	Mfg. Date: 11/28/1961	Curies: 0.902	Grams Isotopic: 14.360
Гуре: 239Ри/Ве	Serial No: M	I1183 N	Mfg. Date: 11/28/1961	Curies: 0.898	Grams Isotopic: 14.290
SOURCE CUST					
OFFICIAL NAM	ETITLE W	NAME (P	W. CHURC H Please Print or Type)		Safety Officer (Please Print of Type)
UC/LANL AUTI			Team Leader, Off-Site	Cannon Dagarram	Decises
SIGNATURE	_	Dy J. Leonard	conal		8-26-0
ACKNOWLEDO	GEMENT OF	RECEIPT BY	Y LANL:		
OFFICIAL NAM	E/TITLE	I Mater NAME (P	Le Please Print or Type)	Recovery TITLE	Condinator (Please Print or Type)
SIGNATURE	_//	Valto	-	DATE	- 3-06

UNCLASSIFIED



University of California Lawrence Livermore National Laboratory P. O. Box 45 Mercury, Nevada 89023

FACSIMILE TRANSMITTAL SHEET

To: Martin Graham	_Date;	2/1/06
Organization	Time	,
Location	_ FAX#	860 486 1106
Number of pages to follow		
From: Ow, L. Klamany		
Location LLNL/NTO	FAX #702-2	95- <u>6337</u>
If transmission is not complete, please call se	nder at:	
702-295- <u>78 72</u> Subject/Comments:		•
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NTO FAX #'s (702-295-XXXX)		
BEEF 5079 DAF 45226 Field Test Engineering 6337 LLNL/NSF 1269 NEMOF 7357 Security 3643	ES&H JASPER Logistics & Resident M	0332 6337 6337 4188 2 Purchasing 7291 6219 6454
Ula6089	·	

[5-2022] Previous editors are obroble.

WANDATORY DATA COLLECTION
PUTHORIZED BY 180 CPR 20, 450, 70, 72, 74, 75, 150.
PUBC-189, 50-703, 93 432, 85-91.

U.S. DEPARTMENT OF ENERGY

AND U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0003

EXPIRES: 05/31/2005

APPROVED BY Danis; NO. 3 for Journal Estimated burden request 45 misutes. This information is required for AEA accounting reports that show changes in invertency of nuclear materials. Send occarrents regarding burden estimate to the accounting reports that show changes in invertency of nuclear materials. Send occarrents regarding burden estimate to the accounting reports that show the property of nuclear materials. Send occarrents regarding burden estimate to the Records Management Branch CPS Est. U.S. Nuclear Regulatory Commission, Virshington, DC 20559-8007, or by information and to the Desk Officer, Officer of Information and Regulatory Affairs, NEO-81-0222, (3150-0003), Officer of Management and Budget, Vitakington, DC 20503. If a means used to impose an information occlarition does not display a currently vest OMS control number, the AFC may not conduct or sported; and a person is not required to assport to, the **NUCLEAR MATERIAL TRANSACTION REPORT**

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U.S. DEPARTMENT OF ENERGY AND

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COMMISSION

15-2002) Previous editions are obsolete IANIOATION DATA COLLECTION AUTHORIZED BY 10 CFR 30, 40, 50, 70, 72, 74, 75, 150, Public Laws 83-703, 93-438, 85-91 NUCLEAR MATERIAL TRANSACTION REPORT

APPROVED BY OMB: NO. 3150-0003

EXPIRES: 05/31/2005

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Estimated burden per response to comply with this mandatory collection request. I for and 15 minutes. This information is required for IAEA accounting reports that show changes in inventory of purclear materials. Send comments reparating burden estimate to the Records Management Branch (1-5 F-52), U.S. Nuclear Regulatory Commission, Washington, DC 2055-0001, or by Internet e-melt to Indoords fire gove, and to the Desk Officer, Osice of Indoormation and Regulatory Adalary, In-City 10021, (1959-0003), Office of Management and Budget, Washington, DC 20503 11 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.

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UNIVERSITY OF CONNECTICUT **RADIATION SAFETY OFFICE U-97** SEALED SOURCE CONTAMINATION/LEAK TEST REPORT FORM

INVESTIGATOR:	23 M 25		LOCATION: Nysics 215 DATE: 6/26/03								
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CONTAMINATION/LEAK TEST RESULTS:

LOCATION	GROSS CPM	BKGND CPM	NET CPM	TIME MIN	%EFF	DPM	μCi
SURFACES	11.99	10.33	1.66	5	75.67	2.20	9.90-74
	12.26		1.53	5	75.54	2,55	1.12-6
	12.06		1.73	5	75,38	2,29	1.00-€
V	12.21	1	1.88	5	75.56	2.49	1.10-6
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If the inspection or leak test reveals any construction defects or 0.005 microcuries or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with applicable regulations.

Leak Test MD (NUREG-1556,		$= \frac{2.71 + 4.65\sqrt{(B_R \times t)}}{t \times E \times 2.22E6}$	=	2.71+4.65 V10.33×5 5×.75×2.22 =6
Where	MDA	= activity level in uCi		4.3e-6-46

MDA = activity level in μ Ci = background count rate in counts per minute

= counting time in minutes t

= detector efficiency in counts per disintegration

Radiation Safety Specialist

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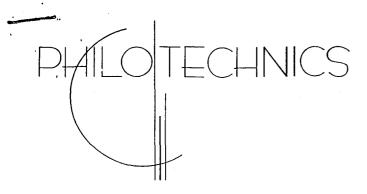
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LSR-TIME: 5.00 INT:999,95 CHANNEL 2-LL:400 UL: 470 2516MA: 2.00 BKG SUB: 8.02 CHANNEL 3-LL:470 UL:1000 2516MA: 2.00 BKG SUB: 10.33	2 BK6 2516 3 BK6 2516 7 BK6 2516	0.02		000
DUAL LABEL DPM. SET UP ON TUE 27 MAY 2003 10:16 UNKNOWN ID: UNKNOWN NORM FACTOR 1801:0 1.00000 1502:0 1.00000 UNKNOWN UNITS 1501:0PM 1501:0PM CALCULATE COEFF:N HALF LIFE(DAYS) 1501:N GUENCH COEFF 1501:CH1 A; 4.112068 8:-0.0041245 C:- ISO2.CH1 A; 2.849599 8:0.00019274 C:0 ISO2.CH1 A: 2.849599 8:0.00019274 C:0 GUENCH LIMITS LOW:16.00 HIGH. 313 C:0	.5: 1 1502:N C: -0.0000034 C: 0.00003586 C: 0.0000341		D: -0.000000504 D: -0.0000000504 D: -0.000000388	prin 17.1 1771 prin

Vi		AM TIME ISOIXEFF CHI	180 UM 180 UM		1 1802 DPM 1802%EFF CH2	ZSIGZ ISOZMEFF CHI	CPM3 Z8163 1 Ave H#	
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M1152	Solo Solo	5.00 r 36.46		幸幸幸幸幸幸			8 7 5 9 7 5 9 7 5	ij
4 118 J	u)	57.40	# 700Z	* * *	2.494050 75.56		2.00. 2.00. 3.00.0.48	<u> </u>

APPENDIX C

DOCUMENTATION ON DISPOSAL OF:

Item 6.N. Sealed sources Cesium 137 (Amersham Searle Model 2000). 500 millicuries.



June 29, 2001

Tod Richards
University of Connecticut
Enviro. Health & Safety, 3102 Horsebarn Road, U-97
Storrs, CT 06269-4097

Subject:

Shipment Receipt Acknowledgement

Dear Tod:

In accordance with the requirements of 10 CFR 20, Appendix G, Section III, C.1., the attached signed shipping manifest copy is provided as your notice of receipt and acceptance of the radioactive waste materials specified on the manifest. Manifest No. 0257-060501 was received at ATG on June 15, 2001 and was assigned Receipt No. LLR01-134.

This signed manifest is acknowledgement of receipt only. Any manifest discrepancies found during unloading or processing will be reported at a later date.

Please contact me if you have any questions or require additional information. I can be reached at 888-RADWASTe or 865-425-3009 (direct), or via email at aleach@philotechnics.com.

Sincerely,

Philotechnics, Ltd.

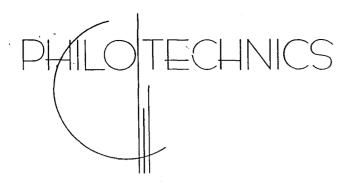
Annette Leach

Customer Service Manager

al Enclosure

	FORM 540 Philotechn UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER		Philotechnic Enviorn. Hes 3102 Horseb Storrs, CT 0				X	MENT I.D. NUMBER 0257-060501 COLLECTOR PROCESSOR	FC FC	DRM 540 AND 540A DRM 541 AND 541A DRM 542 AND 542A DDITIONAL INFORM	ATION	F 1 PAGE(S) 2 PAGE(S) 1 PAGE(S) None PAGE(S)	8. MANIFEST NUMBER (Use this number on all continuetion pages) 0257-060501 USE 1-34		
			S.C.PERMIT NA		SHIPM 0257-0	ENT NUMBE	R	GENERATOR TYPE (Specify)	1	onsignee - Name a G - Richland Or	•		Bob Denna	,	
865-806-7991 ORGANIZATION	de Area Code)		CONTACT Tod H. Ric	:hards			(Includ	PHONE NUMBER de Area Code) 0-486-1106	202	5 Battelle Blvd hland, WA 993		1	TELEPHONE NUMB 509-375-5160	ER (Include Area Code)	
Philotechnics 2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? YES NO	3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST	7	KINDRICKT	STATE HIGHWAY T	ruck #; raller #;		TND9	D. NUMBER 87766078 PING DATE //1	Told is	auur	10 ein-named materials a	. CERTIFICATION	DATE 6-/5-	ked, and labeled and an	
4. DOES EPA REGULATED YES	EPA MANIFEST NUMBER		CONTACT Gary	Kindrick			TELEI (Includ 865	PHONE NUMBER (de Area Code) 6-882-0457	disposa	that the materials and as described in acc	e classified, package ordance with the requ	f. marked, and labeled	ions of the Department of and are in proper condition and 20 and 61, or equivale	on for transportation and nt state regulations.	
THIS SHIPMENT? If Yes, provide Monifest Number ******>	NA		SIGNATURE	- Authorized cerrier acknow	dedging waste	receipt	DATE 6/S	5/01	5	ORIZED SIGNATUI	Edu	Sv. Be	oh-	06-05-01	
11. U.S. DEPARTMENT OF TRANSPORTATIO (Including proper shipping name, hezard class and any additional information	UN ID number,	12. DOT LABEL "RADIOACTIVE"	13. TRANSPORT INDEX	14. PHYSICAL ANI CHEMICAL FOR	D RM			15. RDIVIDUAL RIONUCLIDES		TOTAL PA	16. CKAGE ACTIVITY mCI	17. LSA/SCO CLASS	18, TOTAL WEIGHT OR VOLUME (Use appropriate units)	19. IDENTIFICATION NUMBER OF PACKAGE	
Radioactive material, excepted package material, 7, UN2910	ge-limited quantity of	NA	NA	Solid Pa,PI,GI/BP	U-ECU	Н-3	Zn-65			1.2765E+01	3.4500E-01	NA	92. LBS; 7.5 FT3	1143	
Radioactive material, excepted package material, 7, UN2910	ge-limited quantity of	NA	NA	Solid Pa,PI,GI/BP	U-NDV	C-14	H-3			B.8282E+00	2.3860E-01	NA	80, LBS; 7.5 FT3	1144	
Radioactive material, excepted package material, 7, UN2910	ge-limited quantity of	NA	NA	Solid Pa,PI,GI/BP	U-ECU	C-14	Ca-45	H-3		4.4881E+00	1.2130E-01	NA	65. LBS; 7.5 FT3	1151	
Radioactive material, excepted package material, 7, UN2910	ge-limited quantity of	NA	NA	Solid Pa,Pi,Gi/BP	U-ECU	C-14	Ca-45	H-3		6.6045E+00	1.7850E-01	NA	73. LBS; 7.5 FT3	1154	
Radioactive material, excepted package material, 7, UN2910	ge-limited quantity of	NA	NA	Solid Pa,PI,GI/BP	יט-אסע	C-14	H-3			2.4165E+00	6.5312E-02	NA	71. LBS; 7.5 FT3	1161	
Radioactive material, excepted package material, 7, UN2910	ge-limited quantity of	NA	NA ·	Solid Pa,Pl,Gl/BP	VDN-U	H-3				5.6866E+01	1.8072E+00	NA	60. LBS; 7.5 FT3	1162	
Radioactive material, n.o.s., 7, UN298	2	Yellow II	0.1	Solid Sealed Source/Encaps-B	sc	Cs-137				1.4356E+04	3.8800E+02	NA	280. LBS; 4.1 FT3	R\$O-001	
						<u> </u>								<u></u>	
FOR CONSIGNEE USE ONLY			·	20.				,							

FORM 540 (10-96)



May 22, 2001 TN01-0532

Mr. Tod Richards University of Connecticut Environmental Health & Safety 3102 Horsebarn Hill Road Storrs, CT 06269

Subject:

Philotechnics, Ltd. Quotation No. 2001-03AL, Revision 2

Dear Tod:

In response to our recent conversations, Philotechnics, Ltd. is pleased to provide this revised quotation for brokerage, transportation, and disposal services for your low-level radioactive waste materials.

Via Fax: 860-486-1106

Due to impending changes at Barnwell effective July 1, 2001, the Cs-137 source may require dedicated encapsulation and will be processed as described below:

Philotechnics will provide brokerage services to include proper manifesting and labeling, packaging assistance and supplies as required, less than load transportation on a milkrun basis, and disposal as follows:

Cs-137 Source:

The source will be shipped to a processing facility for encapsulation in a minimum 4" concrete with final disposal at the Barnwell, SC Disposal Facility. This option will be provided for \$4,750. A South Carolina Waste Transport Permit for Year 2001 will be required for disposal.

All other conditions of the original quotation and Revision 1 remain unchanged.

Philotechnics looks forward to working with the University of Connecticut. If you have any questions please feel free to contact either myself or Don Hartje, Operations Manager, at (865) 483-1551 or 888-RADWASTe.

Sincerely,

Philotechnics, Ltd.

Annette Leach

Customer Service Manager

-0.10 ****

105.0

111

109

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USER: 5 ID: WASTE DRUMS PRESET TIME: 5.00
                                                 FRI 25 MAY 2001 14:11
 SAMPLE REPEAT: 1 CYCLE REPEAT: 1 SCR:N RS232:N
 H#: 3 AQC:N QCF:N RCM:N
                          LSR-TIME: 0.50 INT: 0.50
 CHANNEL 1-LL: 0 UL: 400 2816MA: 2.00 BKG SUB: 15.62 BKG 2816:
                                                            1.90 LSR:
                                                                      12
 CHANNEL 2-LL:400 UL: 670 2SIGMA: 2.00 BKG SUB: 19.24 BKG 2SIG: 1.72 LSR:
                                                                      12
  CHANNEL 3-LL:670 UL:1000 28IGMA: 2.00 BKG SUB: 14.10 BKG 28IG:
                                                            2.00 LSR:
                                                                      12
 DUAL LABEL DPM, SET UP ON MON 30 APR 2001 07:58
 UNKNOWN ID:
                              UNKNOWN REPLICATES: 1
 UNKNOWN UNITS
                     ISO1:DPM
                                  ISO2:DPM
  CALCULATE COEFF: N HALF LIFE(DAYS) ISO1:N
                                                  IS02:N
  QUENCH COEFF ISO1, CH1 A: 4.080156 B:-0.0037843 C:-0.0000091 D:-0.000000385
              ISD1, CH2 A: 0.2672549 B:-0.0019630 C:0.00002011 D:-0.0000000353
              ISD2, CH1 A: 2.842980 B:-0.0000435 C:0.00000368 D:-0.000000389
              ISD2, CH2 A: 4.359637 B:-0.0006794 C:0.00000293 D:-0.000000160
  QUENCH LIMITS
                 LOW: 6.000
                             HIGH: 299.7
   SAM
         TIME ISO1 DPM
                         2SIG1
                                ISO2 DPM
                                          2SIG2
                                                  CPM3
                                                            29IG3
                                                                      ERR

✓ ISO1%EFF CH1 ISO1%EFF CH2 ISO2%EFF CH2

                                          ISO2%EFF CH1 AVG H#
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1146 5
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                27.89209
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                                 -10.2328
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                                                     -8.10 *****
                                                                      111
       36.31
                     1.26
                                                       97.0
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                                 74.20
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                                 -7.06212
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                                 73.99
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                22.14991
                          208.0
                                 -7.47377
                                           ****
                                                      -8.10 ****
                                                                      111
       34.55
                     1.27
                                 73.88
                                             17.02
                                                       104.3
                                                                      109
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ALL CONTAMINATION LEVELS < 22 dpm / cm²

AM

-7.47885

73,85

17.01

22.25390

1.27

208.0

1154 8

0.50

34.39

APPENDIX D

DOCUMENTATION ON NYANK MARINE LABORATORIES DECOMMISSIONING:





Environmental Health and Safety Box U-97, Room 219 189 Auditorium Road Storrs, CT 06269-3097 (203) 486-3613 FAX (203) 486-1106

DATE:

June 16, 1992

TO:

Dr. Stephen Spotte

Noank Marine Research Lab

FROM:

Edward L. Wilds, Jr. 200

Radiation Safety Manager

SUBJECT:

LABORATORY DEACTIVATION

This is to document that the Marine Science Lab at Noank, CT was smeared and surveyed on June 8, 1992 and found to be free and clear of contamination.

This laboratory is hereby placed on inactive status. You are reminded that the use and storage of radioactive materials in this area is prohibited until it is reactivated. Notify Radiation Safety, U-Box 97, when you wish to be placed on an active status.

/1

cc:



Sed letter and file for

UNIVERSITY OF CONNECTICUT ENVIRONMENTAL HEALTH AND SAFETY

INACTIVE LABORATORY CHECKOFF SHEET

LICENS	ED INVESTIGA	ron:	pole	EXT.
LOCAT I	ON:	oank	MSL	DATE: 8 June 92
VEC	DATE	INITIALO		
YES	DATE	INITIALS	Radioactive material	transferred to :
/		· · · ·	Waste	
	8 June 92	M	and laboratory balan	ce zero.
	8 June 92	ms	Laboratory surveyed:	no contamination
_	8June 92	THI	All radioactive wast	e picked up by RSO
*			All radioactive sign	s removed by RSD
	8June 92	ms_	All movable equipment certified free of co	
	June 16, 1982	\mathcal{H}^{0}	Letter sent to Licer copy placed in file.	sed Investigator and
	Ly To h	E renon	ed by PI	

UNIVERSITY OF CONNECTICUT RADIATION SAFETY OFFICE U-97 WIPE TEST REPORT FORM

PURPOSE: _	DEA	CTIVA	TIDAG	BLAR		_ DATE:	8 Ju	ne 9.2
BUILDING:	DE A	2 M	5 C ROL					
	RESULTS							_
SAMPLE NO:	LOCATION	TIME MIN.	СРМ	% 2 SIG	BKG CPM	% EFF	CPM ABOVE BKG	DPM
1-12	Rez							
13	Reg Hol Cap SK Miges Shaker Tangs							
14	Mixes							
15.	5haky							:
16	Tanys							
17	FmLt	ļ						1
18	Fant		ļ					1 1/2
19	Shelf	<u> </u>						13/3
20	Batter							146
21	Shelf Batter Bug L							
22	" R							
23	" M		<u> </u>					
24	Floor F				_			
26	Floor R							
26	St Shif							
27.	Sh Box 4							
	:							
.]					,			
			مهفت					

INTER B.C.D.L.P. OR R. BATCH

PRO. SOL ID: 1125 FIRST SAMPLE #= 121 AST SAMPLE #= 146 /MLIMITED USE? N LIMIT = 1 :ATALOG 11252 Y

DESCRIPTION 1125 1125

The second secon

YPE TIME TERM, PCT LCR

SO: KEV-L KEV-H PCT? LCR? CALCULATION

125 10 75 NO NO C=(U-61)/.78

WITER B,C,D,L,P, OR R: RESUME

TRST/LAST # PROT. STDS? STD-STATUS DATE STD STORED 121 146 1 1125 N

D DESCRIPTION 125 1125

YPE TIME TERM. PCT LCR

LAW DATA 1.00 MIN

KEV-L KEV-H PCT? LCR? CALCULATION 50: 10 75 NO NO 125 C = (U - 61) / .78

> DATE BATCH COUNTED 6/09/92 12:44

ISOTOPE I125

	SZN	TIME	CPM	%DEV	() ==
2:45	121	1.00	58	26.3	-3,846
2:46	122	1.00	46	29.5	-19,231
2:47	123	1.00	50	20.3	-14,103
2:48	124	1.00.	46	29.5	-19,231
2:49	125	1.00	49	29.8	-15,385
2:50	126	1.00	55	27.0	-7.692
24	127	1.00	55	27.0	-7,692
2:53	128	1.00	54	27.2	-9.974
2:54	129	1.00	62	25.4	1.282
2:55	130	1.00	51	28.0	-12,821
2:56	131	1.00	47	29.2	-17.949
2:57	132	1.00	57	26.5	-5,128
2:59	133	1.00	.AJ, .Aj.	30.2	-21,795

		ede and the tree	Spart Land	during the fact	due of the sure of
3:02	136	1.00	48	2ê 9	-16.667
3203	3 37	1.00	46	2 2	-19,231
3,374	138	1.00	45	29.8	-20.513
3:05	139	1.00	55	27.0	-7,692
3:06	140	1.00	61	25.6	0.000
3:07	141	1.00	55	27.0	-7,692
3.4	142	1.00	58	26.3	-3.846
3:10	143	1.00	43	30.5	-23,077
3:11	144	1.00	54	27.2	-8.974
3:12	145	1.00	46	29.5	-19,231
3:13	146	1.00	53	27.5	-10.256

URGE COMPLETE

COPY



Environmental Healt: 1 salety
Box U-97, 606 Gilberi E |
Store | Characterist | Common |
Store | Characterist | Common |
Store | Characterist | Common |
Store | Characterist | Characterist |
Store | Characterist |
Sto



January 21, 1986

Dr. S. Y. Feng Marine Research Lab Noank, Connecticut 06340

Dear Dr. Feng:

This is to confirm that on November 26, 1985, your laboratory was surveyed and found to be free of contamination. All solid and liquid waste has been removed from lab and disposed of and all radioactive signs have been taken down.

Sincerely,

Frances Harshaw Director, Radiation Safety

FH:p



Environmental Health & Safety Box U-97, 606 Gilbert Road Storrs, Connecticut 06268

December 2, 1985

From: Denny Galloway

Denny Kalloway

Subject: Dr. Sung Yen Fengs lab decommissioning

On November 26, 1985 Dr. Sung Yen Feng's lab was decommissioned. Please note the following.

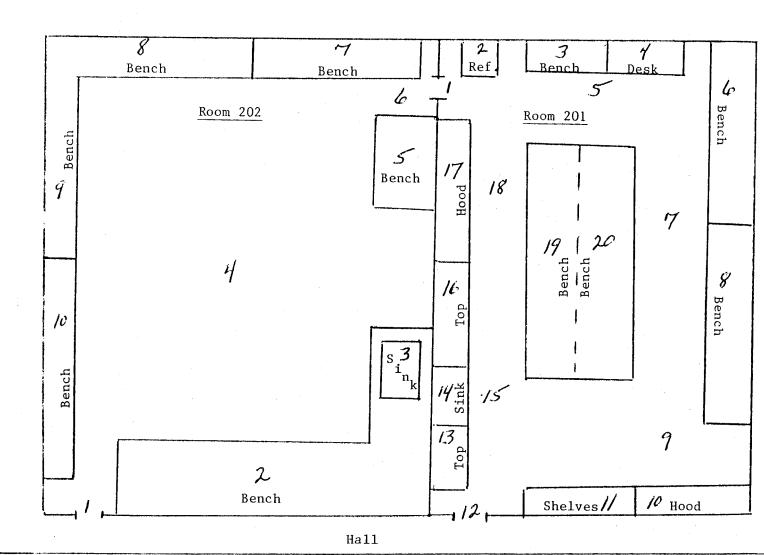
- 1. Technicians survey indicates there is no fixed or removable contamination.
- 2. All solid and liquid waste was removed from lab and disposed of according to procedure.
- 3. Inventory was balanced and reflects the removal and disposal of 0.1 mCi of inulin. C^{-1}
- 4. All radioactive signs/postings have been taken down or removed.
- 5. Dr. Fends records have been put in the Investigators inactive file.

DIAGRAM OF SURVEYED AREA

INVESTIGATOR: Dr. Feng

LOCATION: Noank Marine Research

Rooms #201 and #202



1785

UNIVERSITY OF CONNECTION RADIATION SAFETY OFFICE U-97

WIPE TEST REPORT FORM

		****				• •		
FURFOSE	LAB C	LAN O	_ے۔7ں	DR	۸بک	16 YE	H FENG	
LOCATION	" NOANK	BLDG	MARIN Science	DATE	:	12 - 2	-15	···
ISOTOPE	14 _C	PHYSICA	L & CHI	EMICA	L FORM	·	NULIN	_
ACTIVITY	Y:	mCi	PRO	CEDUR	E: <u>ພ</u>	PE TE	ST	· .
WIPE TES	ST RESULTS							
SAMFLE NO.	LOCATION	COUNTS	TIME MIN	CPM	%EFF	BKG CPM	COUNTS ABOVE BKG.	DPM
1.	FRIDGE TOP		5	31	.95	52	Ø	
2.	SIDES			44	,		Ø	
3.	11 DOOR HA		(44	(φ	
4.	FREEZER			52			Ø	
5.	FRIDGE RACKS			51			φ	
6.	THSIDE DOOR		/	46			Ø	
7	DOOR HANDLE		+	45			Ø	
8	Floor			38			φ	
5.	WHATE HOOD			41			Ø	
10.	GREEN HOOD			40			Ø	
11.	CTR LAB BEN	4		44			Ø	
12.	DESK	<u></u>		48			ø	
13.	WORK BENCH NEXT TO FRIDGE			45			ø	
14.	WORK BENCH Below Ancowd			45			Ø	
.15.	CTR LAB BENKA			48	J	-	8	
16.	CENCA		W			_У	<i></i>	

PERMISSIBLE LIMIT <100 dpm/100 per sq.cm. for active laboratories.

RADIATION SAFETY OFFICE U-97 486-3613

TO:

S. Y. Feno AVERY POINT BRANCH-MARINE RESEARCH LAB, 446-1020

FROM:

F. HARSHAW, RSO

RE:

FINAL INVENTORY OF RADIOISOTOPES

DATE: 11/26/85

PLEASE PLACE IN YOUR RADIATION SAFETY NOTEBOOK FOR REFERENCE.

LICENSED ISOTOPE(S) PER PERMIT 75-072:

ISOTOPE MAXIMUM ACTIVITY MAXIMUM ACTIVITY MAXIMUM ACTIVITY

ON HAND (mCi) PURCHASED/TIME PURCHASED/YEAR

10.000

5.000

10.000

DURING THE PERIOD ENDING 11/26/85 OUR RECORDS REFLECT THE FOLLOWING ACTIVITY:

ISOTOPE	PREVIOUS BALANCE	AMOUNT RECEIVED	DECAY LOSS	WASTE CAN	LIQUID	OTHER EXPLAIN	BALANCE	
	mCi	mCi	mCi	mCi	mCi	mCi	mCi	
C-14	0.10	Ō	O	0	0.10*		0	

^{*} DENOTES SEALED SOURCE

COMMENTS:

AS PER NOTE OF 9/16/83, NO RADIOISOTOPE WORK HAS BEEN DONE FOR THE PAST SEVERAL YEARS.

^{**} PICKED UP BY RADIATION SAFETY OFFICE