

600 South Wagner Road Ann Arbor, MI 48103 USA

734 665 0651 phone 734 913 6114 fax www.pall.com

February 8, 2010

Materials Licensing Section U.S. Nuclear Regulatory Commission, Region III 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352

Subject: Termination of License Nos. 21-26088-01 and 21-26088-02E, Supplemental information to NRC Form 314

Dear Sir/Madam,

On behalf of Pall Corporation – Gelman Sciences, Inc., I would like to submit the request for terminating Materials License Nos. 21-26088-01 and 21-26088-02E. As part of this request, Gelman Sciences would like to reclassify the research laboratories once used to work with materials listed on the above referenced materials license for unrestricted use, as well as the storage-for-decay area used to hold waste associated with the activities involving radioactive materials in the research laboratory.

The research laboratory that we have decommissioned used three isotopes for in-vitro research as defined in 10 CFR 30.4. A decommissioning survey was performed by Dade Moeller & Associates, and is attached to this letter (Attachment 1). This survey was performed in accordance with the USNRC NUREG 1757, Vol. 2, Consolidated Decommissioning Guidance. The scope of the survey included three areas: (1) R&D Laboratory Area which had been used to do work under our current materials license, (2) The radioactive storage area which was used to hold waste for decay-in-storage, and (3) a cafeteria space that was once used for lab work, and later re-classified for unrestricted use.

The following information is in support of this request to terminate the subject licenses.

- 1. The following isotopes were used at the facility: P-32, P-33, I-125. All of the isotopes used in research were in unsealed form. In the case of I-125, all material used in the lab was bound (non-volatile).
- No major radiological spills had taken place in the R&D laboratory or decay-in-storage area.
- 3. A facility diagram is included in Attachment 5.
- 4. The results of the final survey activities are documented in the Decommissioning Survey Report issued by Dade Moeller & Associates, within Attachment 1.
- 5. Information concerning the survey instruments used is included on page 4 of Attachment 1. Information on pages 3 and 4 detail the methods used, quality assurance, and calibration of the equipment used in the performance of the decommissioning survey.
- 6. Maps of the swipe locations are included for review within the decommissioning report on pages 10-12 in Attachment 1.
- 7. No further decontamination was necessary after reviewing the final survey results.
- 8. As documented in the attached Decommissioning Survey Report, no radioactive contamination exists in any of the survey areas at the site.

- No remediation efforts were needed, thus we incurred no additional radioactive waste other than those shown in the next item.
- 10. Radioactive wastes generated during routine operations were shipped for disposal to the following organizations. Copies of confirmation of receipt are provided in Attachment 2.
  - EnergySolutions, 1560 Bear Creek Road, Oak Ridge, TN 37831, Phone 865-220-1341.
  - b. Perma-Fix of Florida, 1940 N.W. 67th Place, Gainesville, FL 32653, Phone number 352-373-6066.
- 11. Radioactive waste shipping logs show one shipment of H-3, C-14, and Cs-137. The H-3 and C-14 were unused test kits shipped for disposal. The Cs-137 was a radioactive check source included with the other wastes.
- 12. Some radioactive waste that contained short-lived radioactive materials (half-lives less than 120 days) was disposed of through decay-in-storage. Records of this are maintained by Pall Corporation.
- 13. Certain generally licensed sources in our possession were returned to the suppliers. One source contained Kr-85 and the other contained Po-210. Copies of confirmation of receipt are provided in Attachment 3. Please note that the letters are addressed to or describe the client as IRWS Inc. with address of 28265 Beck Rd, Suite. C-6, Wixom, MI 48393. This is a company that Pall-Gelman Sciences has utilized for waste disposal. IRWS arranged for the disposal of the devices from the Ann Arbor facility.
- 14. A report showing the items transferred to persons exempt from licensing pursuant to Section 30.18, 10 CFR 30, or equivalent provisions of the regulations of any Agreement State is provided in Attachment 4.
- 15. Sewer disposal of radioactive material occurred. Copies of these records are provided in Attachment 6. The only radionuclides disposed to the sewer were P-32 and I-125.

If there are any questions concerning the decommissioning of the research laboratory and decay-instorage area, or in the termination of Materials License No. 21-26088-01, please do not hesitate to contact me directly at 734-913-6144, or our Radiation Safety Officer, Mike Everett, at 850-316-3571. Thank you for your assistance in this matter.

Sincerely,

Chris Rowley

Vice President and Site General Manager Pall Corporation – Gelman Sciences

NRC FORM 314 U.S. I	NUCLEAR REGULATORY COMMISSION	APPROVED BY OMB: NO. 3150	
(4-2008) 10 CFR 30 36(j)(1); 40 42(j)(1); 70 38(j)(1); and 72 54(k)(5)(1)(1)		This submittal is used by NRC as part released for unrestricted use. Send com	oly with this mandatory collection request: 30 minutes, of the basis for its determination that the facility is ments regarding burden estimate to the Records and (), U.S. Nuclear Regulatory Commission, Washington,
CERTIFICATE OF DISPO	SITION OF MATERIALS	DC 20555-0001, or by internet e-mail to i Information and Regulatory Affairs, NE Budget Washington, DC 20503, If a me	infocollects@nrc.gov, and to the Desk Officer, Office of (OB-10202, (3150-0028), Office of Management and ans used to impose an information collection does not umber, the NRC may not conduct or sponsor, and a
LICENSEE NAME AND ADDRESS		LICENSE NUMBER	DOCKET NUMBER
Gelman Sciences, Inc.		21-26088-02	03036476
600 South Wagner Road, Ann Arbo	r, MI 48103-9019	LICENSE EXPIRATION DATE	
		02/28/2014	
This license has expired.	A. LICENSE STATUS (Check the This license has not yet expired; please	e appropriate box) se terminate it.	
	B. DISPOSAL OF RADIOAC		
(Check the appropriate boxes and comple			
The licensee, or any individual executin	e ever been procured or possessed by		nse.
<ul><li>2. All activities authorized by thi</li></ul>	s license have ceased, and all radioac	tive materials procured and/	
under this license number cit	ed above have been disposed of in the	e following manner	
a. Transfer of radioactive ma	terials to the licensee listed below:		
√ b. Disposal of radioactive ma	terials:		
1. Directly by the lice	nsee:		
2. By licensed dispos	al site:		
√ 3. By waste contractor	or:		
See attached letter	for details.		
c. All radioactive materials hat Part 20, Subpart E, and is	ave been removed such that any rema ALARA.	ining residual radioactivity is	within the limits of 10 CFR
	C. SURVEYS PERFORMED A	ND REPORTED	
1 A radiation survey was conduc	ted by the licensee. The survey confi		
a. the absence of licensed ra			
	al radioactivity is within the limits of 10	CER 20 Subpart E and is A	MARA
<ul><li>b. that any remaining residual</li><li>2. A copy of the radiation survey</li></ul>		CTR 20, Subpart E, and 137	
	ot attached (Provide explanation); or	c. was forwarded to NRC	on:
	ed as only sealed sources were ever		Date
a. The results of the latest le		b. No leaking sources have	
The person to be pertoded recording to	no information provided on this form:		
The person to be contacted regarding t	TITLE	TELEPHONE (Include Area Code)	E-MAIL ADDRESS
Mike Everett	Radiation Safety Officer	(850) 316-3571	see below
Mail all future correspondence regarding this license to: 878- Ely Road, Pensacola, FL	32514	mike.everett@pall.	.com
	C. CERTIFYING OFF IDER PENALTY OF PERJURY THAT THE	FICIAL FOREGOING IS TRUE AND C	CORRECT
PRINTED NAME AND TITLE	SIGNATURE		DATE

WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECT. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

# CERTIFICATE OF DISPOSITION OF MATERIALS

# PLEASE READ THESE INSTRUCTIONS BEFORE COMPLETING NRC FORM 314.

Subpart E of 10 CFR Part 20 establishes the radiological criteria for license terminations/decommissioning of facilities licensed under 10 CFR Parts 30, 40, 50, 60, 61, 70, and 72, as well as other facilities subject to the Commission's jurisdiction under the Atomic Energy Act of 1954, as amended, and the Energy Reorganization Act of 1974, as amended.

## **INSTRUCTIONS**

# Section B. Item 2.

Licensees should describe the specific radioactive material transfer actions. If radioactive wastes were generated in terminating this license, the licensee should describe the disposal actions taken, including the disposition of low-level radioactive waste, mixed waste, greater-than-Class-C waste, and sealed sources.

# Section B, Item 2.a.

The information provided concerning the transfer of radioactive material to another licensee should specify the date of the transfer, the name of the licensee recipient, an individual contact name and telephone number for the licensee recipient, and the recipient's NRC or Agreement State license number.

### Section B, Item 2.b.

For disposal of radioactive materials, licensees should describe the specific disposal method or procedure (e.g., decay-in-storage). For those cases when radioactive materials are disposed of by a licensed disposal site or by a waste contractor, the licensee should specify the name, address, and telephone number of the licenseed disposal site operator or waste contractor.

# Section B, Item 2.c.

"Residual radioactivity," as defined in 10 CFR 20.1003, means radioactivity in 'areas' (structures, materials, soils, etc.) remaining as a result of activities (licensed and unlicensed) under the licensee's control from sources used by the licensee, excluding background radiation. ALARA is defined in 10 CFR 20.1003.

## **FILE CERTIFICATES AS FOLLOWS:**

## IF YOU ARE LOCATED IN:

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND CERTIFICATES TO:

LICENSING ASSISTANT SECTION
NUCLEAR MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406-1415

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND CERTIFICATES TO:

MATERIALS LICENSING SECTION U.S. NUCLEAR REGULATORY COMMISSION, REGION III 2443 WARRENVILLE ROAD, SUITE 210 LISLE, IL 60532-4352

#### IF YOU ARE LOCATED IN:

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING, SEND CERTIFICATES TO:

MATERIAL RADIATION PROTECTION SECTION U. S. NUCLEAR REGULATORY COMMISSION, REGION IV 612 E. LAMAR BOULEVARD, SUITE 400 ARLINGTON, TX 76011-4125

NRC FORM 314 U.S. F	NUCLEAR REGULATOR	COMMISSION	APPROVED BY OMB: NO. 315	
(4-2008) 10 CFR 30,36(j)(1); 40,42(j)(1); 70,38(j)(1); and 72.54(k)(5)(1)(1)			This submittal is used by NRC as par released for unrestricted use. Send cor	ply with this mandatory collection request: 30 minutes it of the basis for its determination that the facility is mments regarding burden estimate to the Records and 2), U.S. Nuclear Regulatory Commission, Washington
CERTIFICATE OF DISPO	SITION OF MAT	ERIALS	DC 20555-0001, or by internet e-mail to Information and Regulatory Affairs, NI Budget Washington, DC 20503, If a ma	infocollects@nrc.gov, and to the Desk Officer, Office of EOB-10202, (3150-0028), Office of Management and eans used to impose an information collection does no number, the NRC may not conduct or sponsor, and a
LICENSEE NAME AND ADDRESS			LICENSE NUMBER	DOCKET NUMBER
Gelman Sciences,			21-26088-01	030-31413
600 South Wagner Road, Ann Arbo	r, MI 48103-9019		LICENSE EXPIRATION DATE	
,	•		03/31/2012	
This license has expired. ✓	A. LICENSE STAT This license has not ye			
	B. DISPOSAL			
(Check the appropriate boxes and complete The licensee, or any individual execution	g this certificate on beh	alf of the license	ee, certifies that:	
No radioactive materials have	e ever been procured o	r possessed by	the licensee under this lice	nse.
<ol> <li>All activities authorized by thi under this license number cite</li> </ol>	s license have ceased, ed above have been dis	and all radioact	ive materials procured and following manner.	I/or possessed by the licensee
<ul><li>a. Transfer of radioactive ma</li></ul>	terials to the licensee li	sted below:		
Transfer of generally licen	sed materials to licensee	s. See Attachme	nt 3 to letter included with	this form.
b. Disposal of radioactive ma	terials:			
✓ 1. Directly by the licer	nsee:			
		t-lived radionucl	ides; see letter included wit	h this form for details.
2. By licensed dispos	al site:			
√ 3. By waste contractor	or:			
See letter included v	with this form for details	s.		
c. All radioactive materials hat Part 20, Subpart E, and is	ave been removed such ALARA.	n that any remai	ning residual radioactivity is	s within the limits of 10 CFR
	C. SURVEYS P	ERFORMED A	ND REPORTED	
<ul><li>1. A radiation survey was conduct</li></ul>	ted by the licensee. Th	ne survey confirm	ns:	
a. the absence of licensed ra		-		
✓ b. that any remaining residual	al radioactivity is within	the limits of 10 (	CFR 20, Subpart E, and is	ALARA,
2. A copy of the radiation survey	results:			
√ a. is attached; or b. is not	ot attached (Provide ex	planation); or	c. was forwarded to NRC	C on:
A radiation survey is not requir	ed as only sealed sour	ces were ever p	ossessed under this licens	
a. The results of the latest le	ak test are attached; ar	nd/or	b. No leaking sources ha	ave ever been identified.
The person to be contacted regarding the	he information provided	on this form:		
NAME Mike Everett	TITLE Radiation Safety Of	ficer	(850) 316-3571	e-mail address see below
Mail all future correspondence regarding this license to:			12	
878- Ely Road, Pensacola, FL	C. C	ERTIFYING OFFI	mike.everett@pall	
	IDER PENALTY OF PER	JURY THAT THE	FOREGOING IS TRUE AND	
PRINTED NAME AND TITLE		SIGNATURE		DATE

WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECT. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

# Attachment 1 Decommissioning Survey Report

# **DECOMMISSIONING SURVEY REPORT**

# Pall Life Sciences Corporation Ann Arbor, Michigan

May 20, 2008



481 N. Frederick Avenue, Gaithersburg, MD 20877 Phone 301-990-6006

> www.RadiationSafetyAcademy.com www.moellerinc.com

# **Background**

As described in the proposal dated October 16, 2007, Dade Moeller and Associates, Inc. (Dade Moeller) was retained to perform a decommissioning survey of the Pall Life Sciences Ann Arbor facility (Pall) located at 600 South Wagner Road in Ann Arbor, Michigan. The project involved surveying three areas formerly designated for radioactive material use, which included the following.

- Ligand R&D Laboratory Area Approximately 110 m<sup>2</sup> in size consisting of the following:
  - Linoleum/epoxy floor
  - o Drywall walls
  - o 18 lab bench areas
  - o Under bench cabinets and drawers
  - Over bench cabinets and shelves
  - o 9 sinks (12 drains)
  - 2 chemical fume hoods
  - o 2 floor drains
  - o 1 eyewash station
- Cafeteria Area consisting of the following:
  - Area formerly laboratory space
  - Linoleum floor
  - Tile floor
  - Drywall walls
- Former Radioactive Waste Storage Area Approximately 6 m<sup>2</sup> in size consisting of the following:
  - Concrete floor
  - o Cinder block walls (2)
  - o Drywall walls (2)

# Methods

Surveys of the areas above were completed on May 20, 2008 by Mr. Mike Jedlicka and Mr. Craig Harris, Health Physicist and Health Physics Technician, respectively. The radiation detection equipment listed in Table 1 was used to conduct all scans during the survey. Meter quality control (QC) data (background and check source response) are listed in Table 2. QC measurements were taken in areas of the facility where radioactive materials were not stored or utilized during historical operations.

# Comprehensive scans were performed on the following:

- Lower Wall Scans all accessible lower wall surfaces in the laboratory area, former radioactive waste storage area, and cafeteria were scanned with Meter #s 1 and 2 in Table 1.
   The lower wall surface is defined as the wall area from the floor up to two meters.
- Floor Scans all accessible floor areas in the laboratory area, former radioactive waste storage area, and cafeteria were scanned with Meter #3 in Table 1.
- Bench tops and table tops in laboratory area.
- Under bench cabinets and drawers.
- Over bench cabinets and shelves.
- Sink surfaces and accessible drain areas in the laboratory area and cafeteria.
- Chemical fume hood surfaces and accessible duct work.
- Two step cans formerly dedicated for dry radioactive waste (empty) in laboratory area.

# Smear samples were taken on the following:

- Floor floor areas in the laboratory area, former radioactive waste storage area, and cafeteria.
- Bench tops in laboratory area.
- Lower walls in former radioactive waste storage area.
- Sink surfaces and drains in laboratory area and cafeteria (including eye wash station in laboratory area).
- Floor drains in laboratory area.
- Chemical fume hood surfaces and accessible duct work.
- Two step cans formerly dedicated for dry radioactive waste (empty) in laboratory area.

The following figures can be found at the end of this document:

- Figure 1 Laboratory Area Survey Map
- Figure 2 Former Radioactive Waste Area Survey Map



• Figure 3 – Cafeteria Area Survey Map

Table 1 - Radiation Detection Equipment

Meter Number	Description	Serial Number	Efficiency	Calibration Date
1	Ludlum Model 2224-1 equipped with a hand-held Ludlum Model 43-68 gas proportional probe.	187244	C-14 – 15% Sr-90 – 22% Tc-99 – 17%	02/01/2008
2	Ludlum Model 2224-1 equipped with a hand-held Ludlum Model 43-68 gas proportional probe.	187246	C-14 – 15% Sr-90 – 21% Tc-99 – 16%	02/01/2008
3	Ludlum Model 239-1F Floor Monitor equipped with a Ludlum Model 43-37 gas proportional probe and Ludlum Model 2224 ratemeter.	239-1F S/N: PR216900 2224 S/N: 162850	C-14 – 17% Sr-90 – 18% Tc-99 – 18%	02/01/2008

Table 2 – QC Meter Information

Meter Number	Serial Number	Background (cpm)	Check Source* (cpm)	Approx Efficiency* (%)		
1	187244	221	4426	29.7		
2	187246	156	3960	26.6		
3	162850	526	4499	30.2		

<sup>\*</sup> Check Source - Tc-99; 14,900 dpm (6.7 nCi); DNS-19 2219-90; 4/13/2006.

# **Results**

Surface scans of all floor and wall areas in the laboratory area, former radioactive waste room, and cafeteria yielded no evidence of radioactive contamination. Furthermore, no radioactive contamination was found during the scan of all benches, cabinets, drawers, shelves, sink surfaces, chemical fume hood surfaces.

Table 3 contains a description of the smear samples taken (location / item smeared) and a summary of the results. All smear samples taken exhibited results indicating normal background radiation rates. The original analytical data is maintained by Dade Moeller's Analytical Laboratory for regulatory purposes. Copies of raw data, analytical standard operating procedures, and QA/QC information are available upon request.

Dade Moeller and Associates found no evidence during the survey that radioactive contamination exists in any of the areas surveyed. The survey data supports the conclusion that the areas are suitable for free-release.

Table 3 - Smear Location (Description) and Results

Smear	Raw	Raw	Location (Description)	Gamma	LSC
Number	Data ID#	Data ID#		Results	Results
	(Gamma)	(LSC)		(dpm)	(dpm)
1	1	1	Bench	~ bkgd	~ bkgd
2	1	2	Bench	~ bkgd	~ bkgd
3	1	3	Bench	~ bkgd	~ bkgd
4	1	4	Bench	~ bkgd	~ bkgd
5	1	5	Bench	~ bkgd	~ bkgd
6	1	6	Bench	~ bkgd	~ bkgd
7	1	7	Bench	~ bkgd	~ bkgd
8	1	8	Bench	~ bkgd	~ bkgd
9	1	9	Bench	~ bkgd	~ bkgd
10	1	10	Bench	~ bkgd	~ bkgd
11	2	11	Bench	~ bkgd	~ bkgd
12	2	12	Bench	~ bkgd	~ bkgd
13	2	13	Bench	~ bkgd	~ bkgd
14	2	14	Bench	~ bkgd	~ bkgd
15	2	15	Bench	~ bkgd	~ bkgd
16	2	16	Bench	~ bkgd	~ bkgd
17	2	17	Bench	~ bkgd	~ bkgd
18	2	18	Bench	~ bkgd	~ bkgd
19	2	19	Bench	~ bkgd	~ bkgd
20	2	20	Bench	~ bkgd	~ bkgd
21	3	21	Bench	~ bkgd	~ bkgd
22	3	22	Bench	~ bkgd	~ bkgd
23	3	23	Bench	~ bkgd	~ bkgd
24	3	24	Hood Surface (right side)	~ bkgd	~ bkgd
25	3	25	Hood Surface (back side)	~ bkgd	~ bkgd
26	3	26	Hood Surface (left side)	~ bkgd	~ bkgd
27	3	27	Hood Surface (bottom surface)	~ bkgd	~ bkgd
28	3	28	Hood Surface (bottom surface)	~ bkgd	~ bkgd
29	3	29	Hood Surface (top and accessible duct work)	~ bkgd	~ bkgd
30	3	30	Hood Surface (top and accessible duct work)	~ bkgd	~ bkgd
31	4	31	Bench	~ bkgd	~ bkgd
32	4	32	Bench	~ bkgd	~ bkgd
33	4	33	Bench	~ bkgd	~ bkgd
34	4	34	Bench	~ bkgd	~ bkgd
35	4	35	Bench	~ bkgd	~ bkgd
36	4	36	Bench	~ bkgd	~ bkgd
37	4	37	Bench	~ bkgd	~ bkgd
38	4	38	Bench	~ bkgd	~ bkgd
39	4	39	Bench	~ bkgd	~ bkgd
40	4	40	Bench	~ bkgd	~ bkgd
41	5	41	Bench	~ bkgd	~ bkgd
42	5	42	Bench	~ bkgd	~ bkgd
43	5	43	Bench	~ bkgd	~ bkgd

Smear Number	Raw Data ID#	Raw Data ID#	Location (Description)	Gamma Results	LSC Results
Number	(Gamma)	(LSC)		(dpm)	(dpm)
44	5	44	Hood Surface (left side)	~ bkgd	~ bkgd
45	5	45	Hood Surface (back side)	~ bkgd	~ bkgd
46	5	46	Hood Surface (right side)	~ bkgd	~ bkgd
47	5	47	Hood Surface (bottom surface)	~ bkgd	~ bkgd
48	5	48	Hood Surface (bottom surface)	~ bkgd	~ bkgd
49	5	49	Hood Surface (top and accessible duct work)	~ bkgd	~ bkgd
50	5	50	Hood Surface (top and accessible duct work)	~ bkgd	~ bkgd
51	6	51	Bench	~ bkgd	~ bkgd
52	6	52	Bench	~ bkgd	~ bkgd
53	6	53	Bench	~ bkgd	~ bkgd
54	6	54	Bench	~ bkgd	~ bkgd
55	6	55	Bench	~ bkgd	~ bkgd
56	6	56	Bench	~ bkgd	~ bkgd
57	6	57	Bench	~ bkgd	~ bkgd
58	6	58	Floor (Laboratory Area)	~ bkgd	~ bkgd
59	6	59	Floor (Laboratory Area)	~ bkgd	~ bkgd
60	6	60	Floor (Laboratory Area)	~ bkgd	~ bkgd
61	7	61	Floor (Laboratory Area)	~ bkgd	~ bkgd
62	7	62	Floor (Laboratory Area)	~ bkgd	~ bkgd
63	7	63	Floor (Laboratory Area)	~ bkgd	~ bkgd
64	7	64	Floor (Laboratory Area)	~ bkgd	~ bkgd
65	7	65	Floor (Laboratory Area)	~ bkgd	~ bkgd
66	7	66	Floor (Laboratory Area)	~ bkgd	~ bkgd
67	7	67	Floor (Laboratory Area)	~ bkgd	~ bkgd
68	7	68	Floor (Laboratory Area)	~ bkgd	~ bkgd
69	7	69	Floor (Laboratory Area)	~ bkgd	~ bkgd
70	7	70	Floor (Laboratory Area)	~ bkgd	~ bkgd
71	8	71	Floor (Laboratory Area)	~ bkgd	~ bkgd
72	8	72	Floor (Laboratory Area)	~ bkgd	~ bkgd
73	8	73	Floor (Laboratory Area)	~ bkgd	~ bkgd
74	8	74	Floor (Laboratory Area)	~ bkgd	~ bkgd
75	8	75	Floor (Laboratory Area)	~ bkgd	~ bkgd
76	8	76	Floor (Laboratory Area)	~ bkgd	~ bkgd
77	8	77	Floor (Laboratory Area)	~ bkgd	~ bkgd
78	8	78	Floor (Laboratory Area)	~ bkgd	~ bkgd
79	8	79	Floor (Laboratory Area)	~ bkgd	~ bkgd
80	8	80	Floor (Laboratory Area)	~ bkgd	~ bkgd
81	9	81	Floor (Laboratory Area)	~ bkgd	~ bkgd
82	9	82	Floor (Laboratory Area)	~ bkgd	~ bkgd
83	9	83	Floor (Laboratory Area)	~ bkgd	~ bkgd
84	9	84	Floor (Laboratory Area)	~ bkgd	~ bkgd
85	9	85	Floor (Laboratory Area)	~ bkgd	~ bkgd
86	9	86	Floor (Laboratory Area)	~ bkgd	~ bkgd
87	9	87	Floor (Laboratory Area)	~ bkgd	~ bkgd
88	9	88	Floor (Laboratory Area)	~ bkgd	~ bkgd



(Gamma) (LSC)		Data ID#	Location (Description)	Gamma Results (dpm)	LSC Results (dpm)	
89	9	89	Sink Surface (Laboratory Area)	~ bkgd	~ bkgd	
90	9	90	Sink Surface (Laboratory Area)	~ bkgd	~ bkgd	
91	10	91	Sink Surface (Laboratory Area)	~ bkgd	~ bkgd	
92	10	92	Sink Surface (Laboratory Area)	~ bkgd	~ bkgd	
93	10	93	Sink Surface (Laboratory Area)	~ bkgd	~ bkgd	
94	10	94	Sink Surface (Laboratory Area)	~ bkgd	~ bkgd	
95	10	95	Sink Surface (Laboratory Area)	~ bkgd	~ bkgd	
96	10	96	Sink Surface (Laboratory Area)	~ bkgd	~ bkgd	
97	10	97	Sink Surface (Laboratory Area)	~ bkgd	~ bkgd	
98	10	98	Sink Surface (Laboratory Area)	~ bkgd	~ bkgd	
99	10	99	Sink Surface (Laboratory Area)	~ bkgd	~ bkgd	
100	10	100	Sink Surface (Laboratory Area)	~ bkgd	~ bkgd	
81	12	102	Plexiglas rad waste container inside bottom	~ bkgd	~ bkgd	
82	12	103	Plexiglas rad waste container inside top	~ bkgd	~ bkgd	
83	12	104	Plexiglas rad waste container outside bottom	~ bkgd	~ bkgd	
84	12	105	Plexiglas rad waste container outside top	~ bkgd	~ bkgd	
3	13	106	Metal rad waste container outside top	~ bkgd	~ bkgd	
4	13	107	Metal rad waste container outside bottom	~ bkgd	~ bkgd	
5	13	108	Metal rad waste container inside top	~ bkgd	~ bkgd	
6	13	109	Metal rad waste container inside bottom	~ bkgd	~ bkgd	
85	15	111	Floor (Cafeteria Area)	~ bkgd	~ bkgd	
86	15	112	Floor (Cafeteria Area)	~ bkgd	~ bkgd	
87	15	113	Floor (Cafeteria Area)	~ bkgd	~ bkgd	
88	15	114	Floor (Cafeteria Area)	~ bkgd	~ bkgd	
89	15	115	Floor (Cafeteria Area)	~ bkgd	~ bkgd	
90	15	116	Floor (Cafeteria Area)	~ bkgd	~ bkgd	
91	15	117	Floor (Cafeteria Area)	~ bkgd	~ bkgd	
92	15	118	Floor (Cafeteria Area)	~ bkgd	~ bkgd	
93	15	119	Floor (Cafeteria Area)	~ bkgd	~ bkgd	
94	15	120	Floor (Cafeteria Area)	~ bkgd	~ bkgd	
95	16	121	Floor (Cafeteria Area)	~ bkgd	~ bkgd	
96	16	122	Floor (Cafeteria Area)	~ bkgd	~ bkgd	
97	16	123	Floor (Cafeteria Area)	~ bkgd	~ bkgd	
98	16	124	Floor (Cafeteria Area)	~ bkgd	~ bkgd	
99	16	125	Floor (Cafeteria Area)	~ bkgd	~ bkgd	
100	16	126	Sink (Cafeteria Area)	~ bkgd	~ bkgd	
7	18	128	Floor (Former Rad Waste Area)	~ bkgd	~ bkgd	
8	18	129	Floor (Former Rad Waste Area)	~ bkgd	~ bkgd	
9	18	130	Floor (Former Rad Waste Area)	~ bkgd	~ bkgd	
10	18	131	Floor (Former Rad Waste Area)	~ bkgd	~ bkgd	
11	18	132	Floor (Former Rad Waste Area)	~ bkgd	~ bkgd	
12	18	133	Floor (Former Rad Waste Area)	~ bkgd	~ bkgd	
13	18	134	Floor (Former Rad Waste Area)	~ bkgd	~ bkgd	
14	18	135	Floor (Former Rad Waste Area)	~ bkgd	~ bkgd	
15	18	136	Floor (Former Rad Waste Area)	~ bkgd	~ bkgd	



Page 9 Decommissioning Survey Report

Smear Number	Raw Data ID#	Raw Data ID#	Location (Description)	Gamma Results	LSC Results
	(Gamma)	(LSC)		(dpm)	(dpm)
16	18	137	Floor (Former Rad Waste Area)	~ bkgd	~ bkgd
17	19	138	Floor (Former Rad Waste Area)	~ bkgd	~ bkgd
18	19	139	Floor (Former Rad Waste Area)	~ bkgd	~ bkgd
19	19	140	Floor (Former Rad Waste Area)	~ bkgd	~ bkgd
20	19	141	Floor (Former Rad Waste Area)	~ bkgd	~ bkgd
21	19	142	Wall Surface (Former Rad Waste Area)	~ bkgd	~ bkgd
22	19	143	Wall Surface (Former Rad Waste Area)	~ bkgd	~ bkgd
23	19	144	Wall Surface (Former Rad Waste Area)	~ bkgd	~ bkgd
24	19	145	Wall Surface (Former Rad Waste Area)	~ bkgd	~ bkgd
25	19	146	Wall Surface (Former Rad Waste Area)	~ bkgd	~ bkgd
26	20	147	Wall Surface (Former Rad Waste Area)	~ bkgd	~ bkgd
27	20	148	Wall Surface (Former Rad Waste Area)	~ bkgd	~ bkgd
28	20	149	Wall Surface (Former Rad Waste Area)	~ bkgd	~ bkgd
29	20	150	Wall Surface (Former Rad Waste Area)	~ bkgd	~ bkgd
30	20	151	Wall Surface (Former Rad Waste Area)	~ bkgd	~ bkgd
S1	22	153	Sink Drain (Laboratory Area)	~ bkgd	~ bkgd
S2	22	154	Sink Drain (Laboratory Area)	~ bkgd	~ bkgd
S3	22	155	Sink Drain (Laboratory Area)	~ bkgd	~ bkgd
S4	22	156	Sink Drain (Laboratory Area)	~ bkgd	~ bkgd
S5	22	157	Sink Drain (Laboratory Area)	~ bkgd	~ bkgd
S6	23	158	Sink Drain (Laboratory Area)	~ bkgd	~ bkgd
S7	23	159	Sink Drain (Laboratory Area)	~ bkgd	~ bkgd
S8	23	160	Sink Drain (Laboratory Area)	~ bkgd	~ bkgd
S9	23	161	Sink Drain (Laboratory Area)	~ bkgd	~ bkgd
S10	23	162	Sink Drain (Laboratory Area)	~ bkgd	~ bkgd
S11	24	163	Sink Drain (Laboratory Area)	~ bkgd	~ bkgd
S12	24	164	Sink Drain (Laboratory Area)	~ bkgd	~ bkgd
S13	24	165	Eye Wash (Laboratory Area)	~ bkgd	~ bkgd
FD1	26	166	Floor Drain (Laboratory Area)	~ bkgd	~ bkgd
FD2	26	167	Floor Drain (Laboratory Area)	~ bkgd	~ bkgd

(See Figures 1-3 for exact locations) (Analysis Number 08-0162; Analysis Date 05/31/2008)

Background Values:

{LSC: 0-18.6 keV (13.3 dpm); 0-156 keV (9.0 dpm); 0-2000 keV (21.4 dpm)} {Gamma: 260-410 keV (60 cpm); 0-2000 keV (503 cpm)}



Figure 1 – Laboratory Area Survey Map

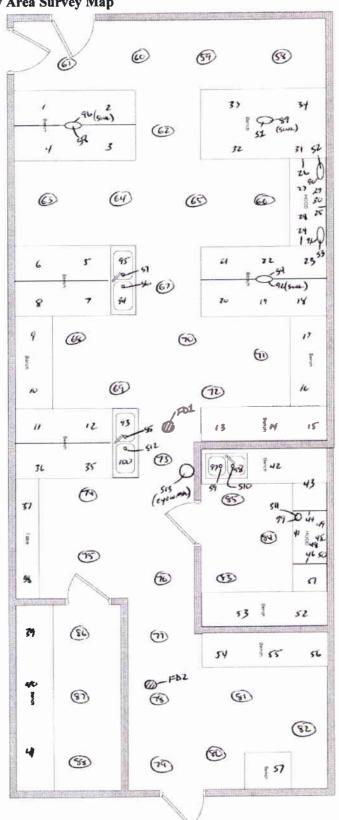


Figure 2 - Former Radioactive Waste Area

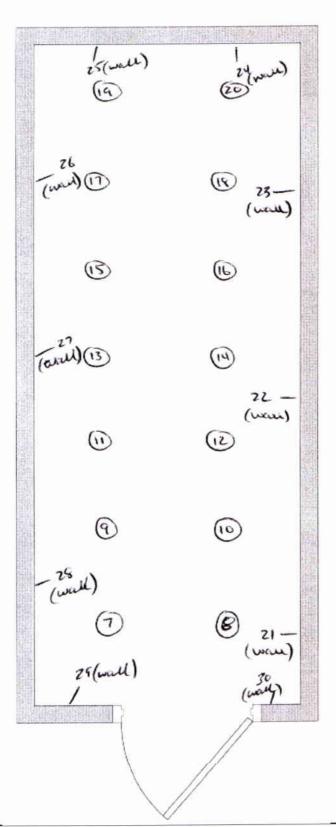
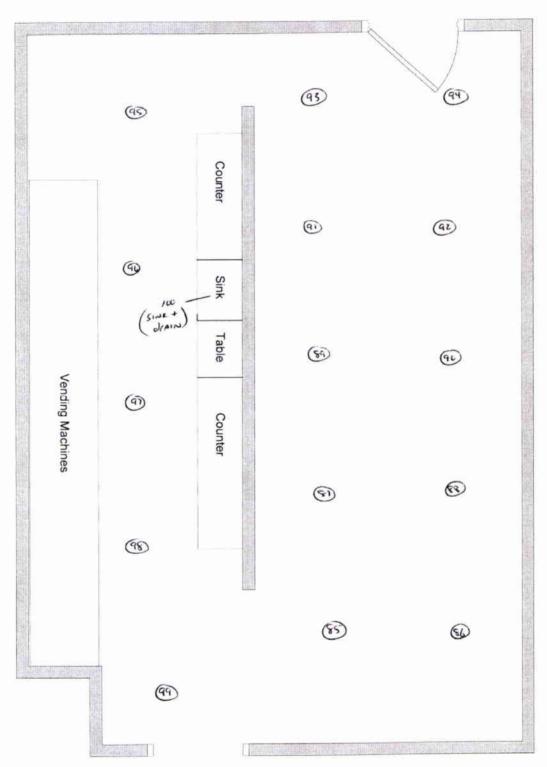


Figure 3 – Cafeteria Area



# Attachment 2 Radioactive Waste Shipping Records



06-Oct-08

PALL CORP ROBERT ERPS **ENVIRONMENTAL SAFETY** 600 S WAGNER ROAD ANN ARBOR

MI

48103

REF: MANIFEST NUMBER:

28898

SHIPMENT NUMBER:

BIO-335-0

# CERTIFICATE OF DISPOSAL

THIS IS TO CERTIFY THAT THE WASTE MATERIALS RECEIVED FROM:

PALL CORP

MANIFEST NUMBER:

28898

02/17/2009 TUE 12:00

HAVE BEEN DISPOSED OF IN FULL. IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

Base print or type. (Form design	ed for use on elite (1	2-pitch) typewriter.)		12 Page 1 of	3. Emergency Response	Phone	4. Manifes			1. OMB No. 20
WASTE MANIFEST	MIDOO	5 3 4 1 8	13	2. rays 1 on	865-220-852		00	032	889	11 8E
5. Generator's Name and Maling.	Address Pall Ct 600 S.	T VIII			Generator's Site Address	(if different				
Generator's Phone: 8. Transporter 1 Company Name							U.S. EPA IO	Number		
Bionomics Inc.							TNI	982	1 16	493
7. Transporter 2 Company Name		· · · · · · · · · · · · · · · · · · ·					U.S. EPAID	Humber	W 172 F	
Designated Facility Name and S	FR- 844				W. A. A. J					
6. Designatio Facility reams and S	ME AGURES	Perma-Fix 1940 NYV (					U.S. EPA IO	NUTTDO		
Facility's Phone: 362-372-6	The second second	Gainesville					FLD	980	711	071
9ts. U.S. DOT Description ( HM and Packing Group (f any)		ng Name, Hazard Cles	s, ID Number,		No.	Type	11. Total Quantity	12. Unit WI. Nol.	13.	Waste Codes
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### LAND DISPOSAL RESTRICTION & CERTIFICATION FORM

Generator Name

Pall Corp

Generator Address

600 S. Wagner Road

City/ST/Zip

Manifast Doc, No.

N/A

DSSI • M&EC • Perma-Fix of Florida

Generator USEPA ID No.

Mi:D005341813

City/ST/Zip

Ann Arbor, MI 48103

Manifast Doc, No.

000328878556

#### Instructions

- 1 In Column 1 identify all USEPA hazardous waste codes that apply to this waste shipment.
- 2 Ir Column 2, choose the appropriate treatability group; Non-Wastewater (NWW) or Wastewater (WW).
- 2 In Column 3, enter the appropriate Subbategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste can be treated using one of the alternative treatment lacheologies provided by 258,49(c) (soil) or 268,45 (debris).
- 4 In Column 4, place an "x" in the block that corresponds to the appropriate LDR management category described at the bottom of this form.
- 5 In Column 5, enter the Reference Number(s) from the LDR-UHC Constituent Table for any constituents subject to treatment in your waste stream.

#### Go to LDR-UHC Contiluent Table

Manifest Line	1 USEPA HAZANDCUSWASTE BAGOO	2	to WWK	XI.	4. HOW MUST THE WASTE BE MANAGED (CIZECK									5. REFERENCE NUMBER(s) of	
llem#		11/2/20 9	7/W	3. SUBGATEGORY	Α	В	C	0	Œ	F	G	R	S	oil Galy	Hazardous Considerational contained in the wester
11.4	DC01, U220	X	NWW	Hgh TOC	x i								Does	is subject to	
	0101,0020		WW	1191100									Does Not	complies with	
11.8			NWW										Does	is subject to	
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11.0			NWW										Does	is subject to	- Demonstration
			ww										Does Not	complies with	
11.D			MAM										Does	is subject to	
		1	ww			ı		1	1	1		-	Does Not	complies with	

I hereby certify that all information submitted on this and all associated documents is complete and accurate to the best of my knowledge and information.

- ALANCE		THANKS IN THE PROPERTY OF THE PARTY OF THE P
THE		1-29-08
Generator Name	Title	Date

- A. THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE AFFIL CABLE STANDARD. This waste must be treated to the applicable performance based treatment slandard set forh in 40CFR Part 268 Subpart C, 268.32, Subpart D, 268.40 or RCRA Section 3004(d) prior to land d
- B THIS HAZARDOUS DEBRIS MAY BE TREATED JSING THE CEBRIS ALTERNATIVE TREATMENT STANDARDS OF 40 CPR 268.45 I certify under penalty of law that I personally have examined and arm familiar with the waste and that the statement above is find and that this statement above is find and that the statement above is find and that the statement above is find and the statement above is fin
- C IHIS RESTRICTED WASTE HAS BEEN TREATED TO THE APPLICABLE TREATMENT STANDARD(S). I certify under penalty of law that I personnally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this ce
- D. THIS RESTRICTED DEBRIS HAS BEEN TREATED IN ACCORDANCE WITH 40 OFR 268 45. I certify under penalty of law that the debris has been treated in accordance with the recuirements of 40 CFR 268 45. I am aware that there are significant penalties for making fals
- E. THIS LAB PACK DOES NOT CONTAIN ANY WASTES IDENTIFIED AT APPENDIX IV TO PART 268 I certify under penalty of aw that I personally have examined and am familiar with the waste and that this lab pack will be sent to a co
- F. THIS RESTRICTED WASTE HAS BEEN TREATED TO REMOVE THE HAZARCOUS CHARACTERISTIC. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazarcous characteristic. This decharacteristic
- G. THIS RESTRICTED WASTE HAS BEEN TREATED TO REMOVE THE HAZARDOUS CHARACTERISTIC AND EEEN TREATED FOR UNDER YING HAZARDOUS CONSTITUENTS. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to re
- H. IAIS RESTRICTED WASTE IS SUBJECT TO AN EXEMPTION FROM LAND DISPOSAL. (Please not de the date the waste is subject to the prohibitions in Column 5) This waste is subject to an exemption from a prohibition on the type of land disposal method utilized for t
- S. THIS CONTAMINATED SOIL (DOES / DOES MOT) CONTAIN LISTEE HAZARDOUS WASTE AND (DOES / DOES MOT) EXHIBIT A CHARACTERISTIC OF HAZARDOUS WASTE AND (IS SUBJECT TO / COMPLIES WITH) THE SOIL TREATMENT STANDARDS AS PROVIDED BY 268.69(c) OR THE UNIVERSAL TREATMENT.



08-Feb-10

PALL CORPORATION **DUANE RAUL ENVIRONMENTAL SAFETY** 600 S WAGNER RD

ANN ARBOR

MI

48103

REF: MANIFEST NUMBER:

000328782JJK

SHIPMENT NUMBER:

BIO-327-O

# **CERTIFICATE OF TREATMENT/DISPOSAL**

THIS IS TO CERTIFY THAT THE WASTE MATERIALS RECEIVED FROM:

**PALL CORPORATION** 

MANIFEST NUMBER:

000328782JJK

HAVE BEEN DISPOSED OF IN FULL. IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

12:00

TUE

2/11/2009

Feb

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# Perma-Fix Environmental Services LAB PACK - DRUM INVENTORY

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PARCON UP 1 OF 25 The Phys Per 5 2007



P.O. Box 817 - Kingston, TN 37763 - (865) 220-8501

January 04, 2008

Mr. Mike Everett Pall Corporation 600 S. Wagner Road Ann Arbor, MI 48103

RE: Barnwell Disposal Certificate

Dear Mr. Mike Everett:

This is to certify that the following radioactive material picked up at your facility on July 19, 2007, on manifest # 71907E, has been disposed of at the Chem-Nuclear Disposal Site in Barnwell, SC.

Please reference the following table for detailed disposal information of shipment.

Barnwell Manifest Number	Barnwell Container Number	Disposal Volume (ft³)	Barnwell Shipment Number	Barnwell Disposal Date
1207-13537	B307	0.100	1207-13537	12/20/2007

If you have any questions please feel free to contact me at (865) 220-8501.

Thank you,

Rene Guy Administrative Manager

Cc: File

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P.O. Box 817 -- Kingston, TN 37763 -- (865) 220-8501

July 23, 2007

Mr. Mike Everett Pall Corporation 600 S. Wagner Road Ann Arbor, MI 48103

Dear Mr. Mike Everett,

As required by 10 CFR Part 20 (Appendix G), this letter is notification that Bionomics, Inc. has received the shipment recently picked up at your facility on July 19, 2007. Attached you will find a copy of your NRC Form 540, the only change from the original is in Item No. 9 "signature" which identifies that Bionomics, Inc. is acknowledging receipt of waste from your facility.

Please keep this with your original, as well as future disposal certifications.

If you have any questions please feel free to contact me at (865) 220-8501.

Sincerely,

Administrative Manager

Cc: File BIO-20-07

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02/17/2009 TUE 12:00

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P.O. Box 817 — Kingston, TN 37763 — (865) 220-8501

August 07, 2007

Mr. Mike Everett Pall Corporation 600 S. Wagner Road Ann Arbor, MI 48103

Dear Mr. Mike Everett.

As required by 10 CFR Part 20 (Appendix G), this letter is notification that Energy Solutions (formerly Duratek) has received the shipment recently picked up at your facility on July 19, 2007. Attached you will find a copy of your NRC Form 540, the only change from the original is in Item No. 9 "signature" which identifies that Energy Solutions is acknowledging receipt of waste from your facility.

Please keep this with your original, as well as future disposal certifications.

If you have any questions please feel free to contact me at (865) 220-8501.

Sincerely,

Administrative Manager

Cc:

File CTS-07-018

Zionomics.

P.O. Box 817 - Kingston, TN 37763 - (865) 220-8501

September 12, 2007

Mr. Mike Everett Pall Corporation 600 S. Wagner Road Ann Arbor, MI 48103

Dear Mr. Mike Everete

This letter certifies that Duratek, Inc. (Energy Solutions) has processed the materials from your shipment as indicated below:

Please reference the following table for detailed disposal information.

Manifest	Shipment Date	Container	Incinexation
Number		Number	Date
719071)	07/19/2007	PC-2	8/23/2007

Note: Any ash from the incineration process becomes Duratek's (Energy Solutions) waste.

If you have any questions please feel free to contact me at (865) 220-8501.

Sincerely.

Administrative Manager

Cc. file

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## Attachment 3 Transfer of Generally Licensed Items



NRD, LLC 2937 ALT BOULEVARD 716-773-7634 PO BOX 310 GRAND ISLAND, NY 14072-0310

800-525-8076 716-773-7744 FAX service@nrdinc.com

Monday, July 30, 2007

IRWS INC 28265 BECK RD STE. C-6 WIXOM, MI 48393

ATTN: SAFETY MANAGER

We are in receipt of the item(s) returned to NRD, LLC for waste disposal. This letter serves as Proof of Compliance that the device(s) listed below have been disposed, and the service performed under New York State License 1391-1811.

Device/Model	Qty	Serial #	To Serial#	<u>Manufactured</u>	NRD's Sales Order#	Millicuries
P-2001	1	SP28868		8/5/1993	043618-1	9
					Total Millicuries	<u>9</u>

Isotope:

Polonium 210

Your Original Po#

14720

NRD's Original Sales Order#

043618-1

Very truly yours,

Douglas M. Davis

Radiation Safety Officer



TSI Incorporated

500 Cardigan Road, Shoreview, MN 55126 USA tel 651 490 2811 toll free 800 874 2811 tax 651 490 3824 web www.tsi.com

Dennis J. Anderson
Manufacturing Engineering Manager, RSO
TSI Incorporated
500 Cardigan Road, Shoreview, MN 55126
(651) 490-2885
E-Mail: dennis.anderson@tsi.com
TRUST. SCIENCE. INNOVATION.

October 3, 2008

This letter is to inform you that we have received the radioactive material listed below. We have processed the material and have sent it out for proper disposal. We have notified the Nuclear Regulatory Commission or appropriate Agreement State that you are no longer in possession of this radioactive material. If you have any further questions, please call me.

Dennis J. Anderson

TSI Radiation Safety Officer

### **Customer Information:**

Robert Erps 28265 Beck Road Suite C6 Wixom, MI 48393 (248) 449-7216

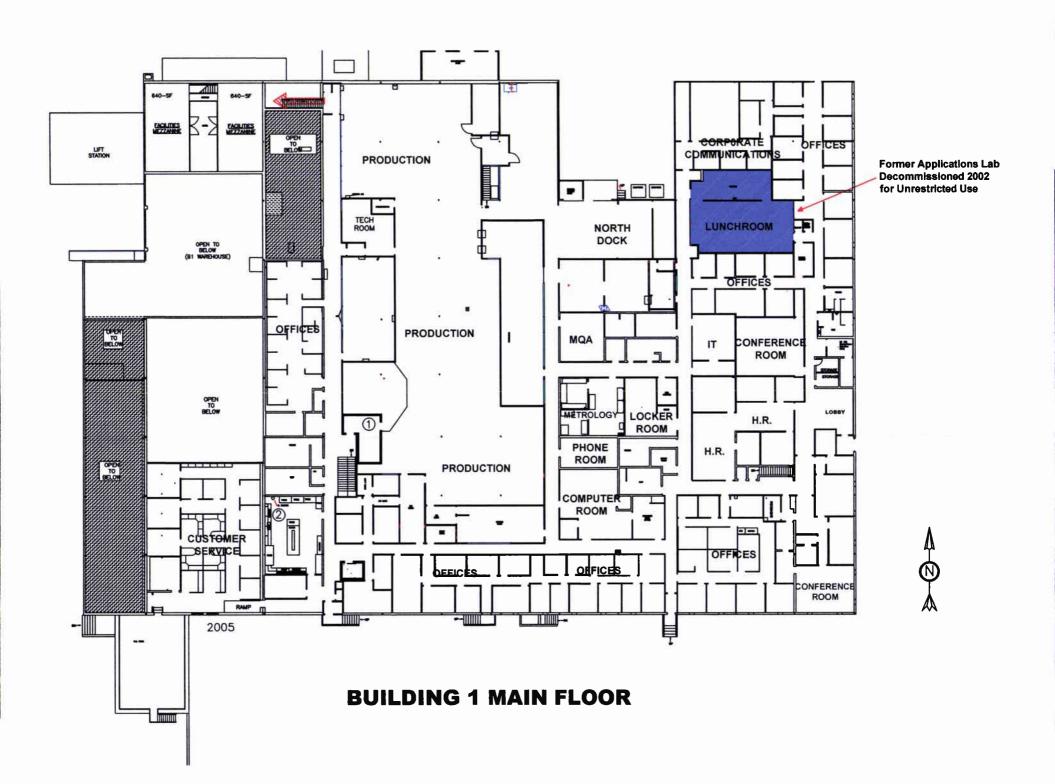
TSI Model Number	Serial Number
3012	1142

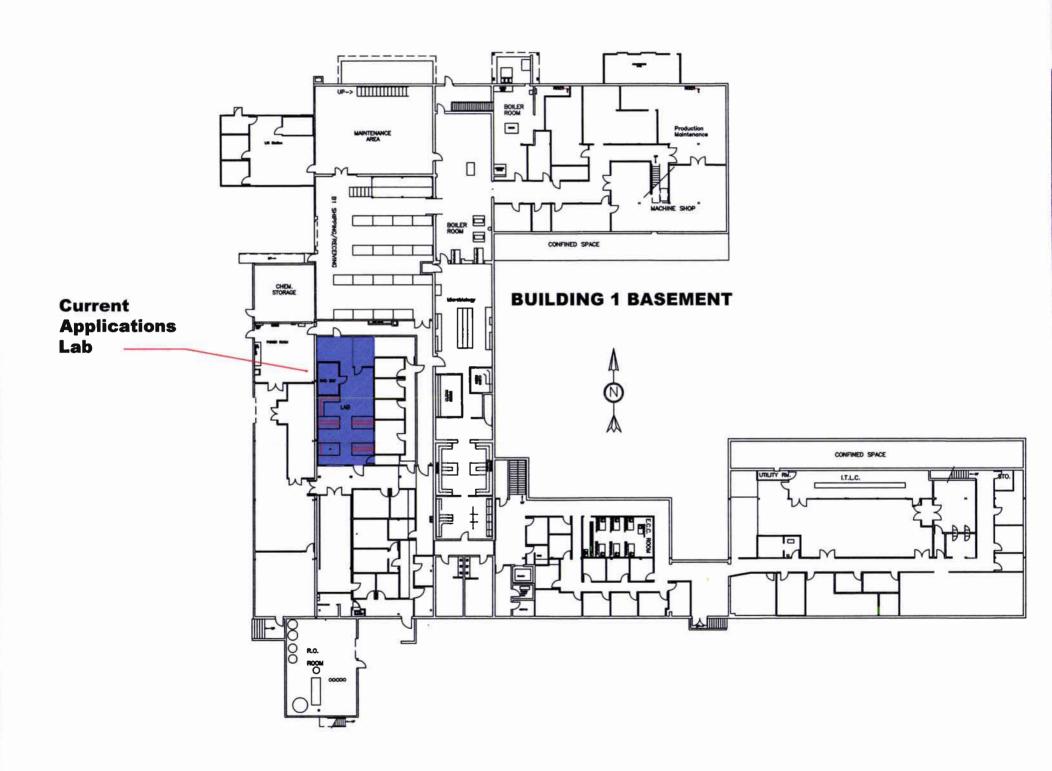
# Attachment 4 Transfer of Items Under License No. 21-26088-02E

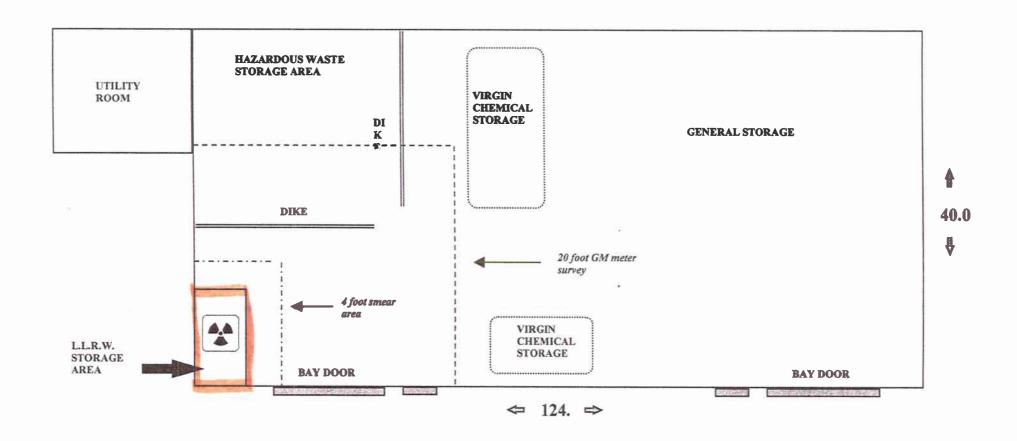
			Ship	n About	Activity (microcuries)	Total Activity	Physical	Ondina valida	Form
Ship Date	Customer Name	Ship to	QTY	u/m	of each item	(microcuries)	form	Radionuclide	Form
2/16/06	BERLEX	2600 Hilltop Drive Richmond CA 94806	1	EA	10	10	Liquid	H-3	Gen-Probe Tritium Standards, Catalog #2168
2/16/06	MOLECULAR MEDICINE BIOSERVICES	5919 Farnsworth Court Carlsbad, CA 92008	i	EA	10	10	Liquid	Н-3	Gen-Probe Tritium Standards, Catalog #2168
9/23/05	EUROPEAN DISTRIBUTION CENTRE (EDC)	Cherwell Site 2, Middleton Close, Banbury, Oxfordshire OX164RS, UK	1	EA	10	10	Liquid	H-3	Gen-Probe Tritium Standards, Catalog #2168
8/31/05	PALL FILTER (BEIJING) CO. LTD.	12 Hongda NanLu, Beijing Economic-Technological Development Area, Beijing, 100176, P.R. China	1	EA	10	10	Liquid	H-3	Gen-Probe Tritium Standards, Catalog #2168
8/25/05	Favrille,Inc.	10421 Pacific Center Court, Suite 150 San Diego, CA 92121	1	EA	10	10	Liquid	H-3	Gen-Probe Tritium Standards, Catalog #2168
5/12/05	BAXTER BIOSCIENCE	1455 LAWRENCE DRIVE THOUSAND OAKS, CA 91320	1	EA	10	10	Liquid	H-3	Gen-Probe Tritium Standards, Catalog #2168
2/02/05	TEXAS, UNIV OF SW MED CTR	4600 HARRY HINES BLVD DALLAS, TX 75235	1	EA	10	10	Liquid	H-3	Gen-Probe Tritium Standards, Catalog #2168
1/07/05	Bruce D Fernbaugh	6219 El Camino Real Carlsbad, CA 92009	1	EA	10	10	Liquid	H-3	Gen-Probe Tritium Standards, Catalog #2168
12/13/04	CHILDRENS MEDICAL CENTER	1935 Motor St. Dallas, TX 75235	1	EA	10	10	Liquid	H-3	Gen-Probe Tritium Standards, Catalog #2168
11/29/04	SMITH & NEPHEW WOUND MANAGEMNT	10933 N Torrey Pines Rd. La Jolla, CA 92037	1	EA	10	10	Liquid	H-3	Gen-Probe Tritium Standards, Catalog #2168
4/02/03	University of North Carolina	Dept. of Pathology & Lab. Medicine Rm 31-345 Lineberger Comprehensive CB7295 Chapel Hill NC 27599	1	EA	10	10	Liquid	Н-3	Gen-Probe Tritium Standards, Catalog #2168

Ship Date	Customer Name	Ship to	Ship QTY	u/m	Activity (microcuries) of each item	Total Activity (microcuries)	Physical form	Radionuclide	Form
3/28/03	BERLEX	2600 Hilltop Drive Richmond CA 94806	1	EA	10	10	Liquid	H-3	Gen-Probe Tritium Standards, Catalog #2168
12/13/02	WYETH	1 Burtt Rd. Andover, MA 01810	2	EA	10	20	Liquid	Н-3	Gen-Probe Tritium Standards, Catalog #2168

### Attachment 5 Facility Diagram









Building 4 - Low level Rapioactive waste Storage

### Attachment 6 Sewer Disposal Records

### Sewer Discharge Log - 1998 - Daily discharge should be kept below 5 uCi.

Activities:

		Activities,										
Date	User	H-3	Monthly conc. cannot exceed 42 mCi/month	P-32	Monthly conc. cannot exceed 24 mCi/month	P-33	Monthly conc. cannot exceed 216 mCi/month	S-35	Monthly conc. cannot exceed 217 mCi/month	1-125	Monthly conc. cannot exceed 6 mCi/month	Cumulative for year cannot exceed 1000 mCi/year
4/8/98	162			0.8 pci	rinse	Ī						
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Instructions: Place activity of discharge in appropriate column. Place total amount discharged for the month for the specific isotope in the "Monthly Conc." column.

Do not include discharges which occurred more than thirty days prior to current discharge.

Add amount discharged for each isotope to the final column, "Cumulative Discharge for Year..". This amount cannot equal or exceed 1 Ci.

### Sewer Discharge Log - 1997

### Activities:

ate	User	н-з	Monthly conc. cannot exceed 42 mCi/month	P-32	Monthly conc. cannot exceed 24 mCi/month	P-33	Monthly conc. cannot exceed 216 mCi/month	S-35	Monthly conc. cannot exceed 217 mCi/month	I-125	Monthly conc. cannot exceed 6 mCi/month	Cumulative for year cannot exceed 1000 mCi/year
2-Jun	K. Seeley	T		5 uCi	5uCi	1						
10-Jun	K. Seeley			10 uCi	15uCi	1						
11-Jun	K. Seeley			10 uCi	25 uCi	1						
12-Jun	K. Seeley			15 uCi	40 uCi	1						i -
18-Jun	K. Seeley			55 uCi	95 uCi							
23-Jun	K. Seeley							Ì		5 uCi	5 uCi	
				June	95 uCi			8		June	5 uCi	
17-Jul	K. Seeley			75 uCi	75 uCi							
				July	75 uCi							i -
18-Aug	K. Seeley			5 uCi	5 uCi							
				August	5 uCi							
11-Nov	K. Seeley			10 uCi	10 uCi							
				10 uCi	20 uCi				1			1
				November	20 uCi							
997 Totals				1997	195 uCi		Victor and the second			1997	5uCi	
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Instructions: Place activity of discharge in appropriate column. Place total amount discharged for the month for the specific isotope in the "Monthly Conc." column. Do not include discharges which occurred more than thirty days prior to current discharge.

Add amount discharged for each isotope to the final column, "Cumulative Discharge for Year..". This amount cannot equal or exceed 1 Ci.



**Life Sciences** 600 S. Wagner Rd Ann Arbor, MI 48103 USA



\$02.240 02/10/2010 Mailed From 48103 US POSTAGE



\$05.100 02/10/2010 Mailed From 48103 US POSTAGE

MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION,
REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE IL 60532-4352