



Cell & Molecular Technologies, Inc

February 26, 2007

RECEIVED  
REGION 1  
2007 FEB 27 AM 10:11

H-φ

Attn: Jim Dwyer – Branch Chief  
U.S. Nuclear Regulatory Commission, Region 1  
Division of Nuclear Materials Safety  
475 Allendale Road  
King of Prussia, PA 19406-1415

**Note: An expedited review is requested. Re: Control # 140032**

Dear Jim:

03034600

Cell & Molecular Technologies INC. (CMT, now part of Invitrogen Corporation) located at 445 Marshall Street, Phillipsburg, NJ 08865 is requesting termination of the Materials License # **29-30418-01** and to provide a letter allowing the above named facility for unrestricted use.

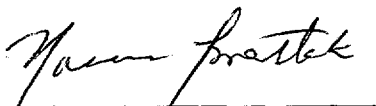
Please find enclosed supporting documents including Form 314, final survey results of the facility and the disposition manifest of P32 materials.


The Phillipsburg site will close on March 30, 2007. Since the time frame is short, an expedited review is requested.

If you require more information, please contact me at 908-213-6503 or via e-mail at [Naseem.Prostak@Invitrogen.com](mailto:Naseem.Prostak@Invitrogen.com)

Thank you.

Sincerely,

  
Naseem Prostak  
RSO

  
Zhong Zhong, Ph.D.  
Director of R&D

140032  
NRC/REG MATERIALS-002

## **Radioactive Isotope History for CMT, Inc.**

P32 use: February 22, 2002 – January 24, 2007 (average use 250 uCi per week)

S35 use: one time use on April 1, 2004, amount used 3 mCi

The P32 and S35 isotopes were the only two isotopes used at CMT. These materials were decayed for at least 10 half lives on site before disposal. The P32 materials used during August 2006 to January 24, 2007 were picked up by Duratek-Energy Solutions on January 29, 2007. Please see the enclosed manifest attached.

### **Final Survey of CMT, Inc. at 445 Marshall Street**

Please find attached a copy of the final wipe test in areas that handled P32 materials. The room in the Protein Laboratory was dedicated for P32 use, but the Molecular lab was also used to analyze southern blots. So the whole molecular lab was always surveyed.

The final wipe test also includes the front entrance door knob, the cell lab doors and equipment room lab doors. A Geiger counter model 3, serial #144411 with detector model 44-9 was used to survey all rooms and doors of the facility. The whole site is at background levels.

### **Decommissioning of the Beckman Liquid Scintillation Counter**

The Beckmann Scintillation Counter serial no. 7012510 was decommissioned on February 21, 2007. The cesium source was removed by the Beckmann engineer and shipped to Beckmann using the special Beckman shipping container provided.

(The Beckman standards H3, C14, and Background vials were used as controls for wipe tests. These standards containing less than 1 uCi and toluene are being disposed of as chemical waste. The pick-up date is Feb 26, 2007 by GreenLeaf)

### CERTIFICATE OF DISPOSITION OF MATERIALS

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal is used by NRC as part of the basis for its determination that the facility is released for unrestricted use. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to [infocollects@nrc.gov](mailto:infocollects@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0028), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

LICENSEE NAME AND ADDRESS  
Cell & Molecular Technologies, Inc.  
445 Marshall Street (Note change: License has 580 Marshall St.)  
Phillipsburg, NJ 08865

LICENSE NUMBER 29-30418-01	DOCKET NUMBER 030-34600
LICENSE EXPIRATION DATE 02/29/2008	

#### A. LICENSE STATUS (Check the appropriate box)

- This license has expired.  This license has not yet expired; please terminate it.

#### B. DISPOSAL OF RADIOACTIVE MATERIAL

(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)

The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:

- 1. No radioactive materials have ever been procured or possessed by the licensee under this license.
- 2. All activities authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license number cited above have been disposed of in the following manner:
  - a. Transfer of radioactive materials to the licensee listed below:
  - b. Disposal of radioactive materials:
    - 1. Directly by the licensee:
    - 2. By licensed disposal site:
    - 3. By waste contractor:  
All P32 materials were picked up by Duratek (Energy Solutions) on January 29, 2007. See enclosed Manifest # 4295-T070419
- c. All radioactive materials have been removed such that any remaining residual radioactivity is within the limits of 10 CFR Part 20, Subpart E, and is ALARA.

#### C. SURVEYS PERFORMED AND REPORTED

- 1. A radiation survey was conducted by the licensee. The survey confirms:
  - a. the absence of licensed radioactive materials
  - b. that any remaining residual 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 attached (Provide explanation); or  c. was forwarded to NRC on: \_\_\_\_\_ Date
- 3. A radiation survey is not required as only sealed sources were ever possessed under this license, and
  - a. The results of the latest leak test are attached; and/or
  - b. No leaking sources have ever been identified.

The person to be contacted regarding the information provided on this form:

NAME Naseem Prostak	TITLE Scientist and RSO	TELEPHONE (Include Area Code) (908) 213-6503	E-MAIL ADDRESS see below
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Mail all future correspondence regarding this license to:  
Naseem Prostak, RSO and Zhong Zhong, Ph.D. Cell & Molecular Technologies, Inc. 445 Marshall Street Phillipsburg, NJ 08865 [Naseem.Prostak@Invitrogen.com](mailto:Naseem.Prostak@Invitrogen.com)

#### C. CERTIFYING OFFICIAL

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE Naseem PROSTAK, RSO	SIGNATURE <i>Naseem Prostak</i>	DATE Feb 26, 2007
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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.

### RADIATION SAFETY SURVEY REPORT

Facility/Location <b>445 Marshall St.</b>	Department/Area/Room <b>Protein Lab/Hot Room</b>	Date <b>2/8/07</b>
Radioactive Materials Used: <b><sup>32</sup>P</b>		

**SKETCH OF LABORATORY OR AREA (indicate readings &/or survey results)**

Protein Lab/Hot Room

1. Blank
2. Right of work station
3. Left of work station
4. Workstation
5. Top Hyb. oven
6. Bottom Hyb. oven
7. Front knob centrifuge
8. Bench
9. Liquid waste container in use
10. Floor
11. Dark Room Bench
12. Sink
13. Door knob
14. Door knob

\* Gieger survey of centrifuge Rotor/Lid

Wipe Test Results  
(DPM/100 cm<sup>2</sup>)

- 1.
2. less
3. than
- 4.
5. 200
- 6.
- 7.
- 8.
- 9.
- 10.
- ↓
- 14

**DISCUSSION/COMMENTS:**

\* Gieger survey of centrifuge was at background level(s).

SURVEY PERFORMED BY	SURVEY REVIEWED BY
<i>Neil [Signature]</i>	<i>Jan [Signature] 2/9/07</i>

USER: 1 ID: PRESET TIME: 1.00 THU 08 FEB 2007 15:04  
 SAMPLE REPEAT: 1 CYCLE REPEAT: 1 SCR:N RS232:N  
 H#: 1 ADC:N DCF:N RCM:N  
 CHANNEL 1-LL: 0 UL: 400 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0  
 CHANNEL 2-LL: 400 UL: 670 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0  
 CHANNEL 3-LL: 670 UL: 1000 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0  
 DATA CALC: CPM, UNKNOWN REPLICATES: 1 NORM FACTOR: 1.00000  
 HALF LIFE (DAYS): N

SAM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG H#	ERR
1	**-	1	6.00	81.65	1.00	1.31	31.0	
		2	11.00	60.30				
		3	20.00	44.72				
2	**-	1	102.00	19.80	1.00	2.77	31.0	
		2	22.00	42.64				
		3	11.00	60.30				
3	**-	1	13.00	55.47	1.00	4.23	31.0	
		2	15.00	51.64				
		3	10.00	63.25				
4	**-	1	13.00	55.47	1.00	5.70	29.0	
		2	14.00	53.45				
		3	14.00	53.45				
5	**-	1	14.00	53.45	1.00	7.15	31.0	
		2	10.00	63.25				
		3	10.00	63.25				
6	**-	1	29.00	37.14	1.00	8.62	31.0	
		2	56.00	26.73				
		3	15.00	51.64				
7	**-	1	28.00	37.80	1.00	10.08	30.0	
		2	8.00	70.71				
		3	12.00	57.74				
8	**-	1	7.00	75.59	1.00	11.53	32.0	
		2	10.00	63.25				
		3	14.00	53.45				
9	**-	1	10.00	63.25	1.00	12.99	30.0	
		2	21.00	43.64				
		3	12.00	57.74				
10	**-	1	17.00	48.51	1.00	14.46	31.0	
		2	12.00	57.74				
		3	22.00	42.64				
11	**-	1	17.00	48.51	1.00	15.92	32.0	
		2	11.00	60.30				
		3	18.00	47.14				
12	**-	1	20.00	44.72	1.00	17.38	30.0	
		2	10.00	63.25				
		3	15.00	51.64				
13	**-	1	15.00	51.64	1.00	18.90	31.0	
		2	13.00	55.47				
		3	12.00	57.74				
14	**-	1	6.00	81.65	1.00	20.36	32.0	
		2	10.00	63.25				
		3	8.00	70.71				

A 171A

25 **	1	1	7854.00	2.26	1.00	22.12	-3.0
	2		37247.00	1.04			
	3		437.00	9.57			
26 **	1	2	57674.00	0.83	1.00	23.76	-3.0
	2		1497.00	5.17			
	3		13.00	55.47			
27 **	1	3	19.00	45.88	1.00	25.38	-3.0
	2		7.00	75.59			
	3		6.00	81.65			

Background

Beckman  
Standard  
vials

Yan <sup>Printer</sup>  
2/8/07

Fred Alt  
2/8/07

RADIATION SAFETY SURVEY REPORT

Facility/Location 445 Marshall St.	Department/Area/Room Molecular Lab	Date 2/8/07
Radioactive Materials Used: 32P		

SKETCH OF LABORATORY OR AREA (indicate readings &/or survey results)

Molecular Lab

- Blank
- Door knob
- Door knob
- 19. Bench Areas
- Sink
- Middle Freezer
- water Baths
- Bench
- Light Box Area
- Bench
- Window Sill
- Sequencer Area
- Gel Box Area
- weigh Station

Wipe Test Results (DPM/100 cm<sup>2</sup>)

- 
- Less
- then
- 
- 200
- 
- 
- 
- 
- ↓  
29

DISCUSSION/COMMENTS:

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SURVEY PERFORMED BY <i>Paul Alt</i>	SURVEY REVIEWED BY <i>Jan proslak 2/9/07</i>
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USER: 1 ID: PRESET TIME: 1.00  
 SAMPLE REPEAT: 1 CYCLE REPEAT: 1 SCR:N RS232:N  
 H#: 1 AGC:N GCF:N RCM:N  
 CHANNEL 1-LL: 0 UL: 400 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0  
 CHANNEL 2-LL: 400 UL: 670 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0  
 CHANNEL 3-LL: 670 UL: 1000 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0  
 DATA CALC: CPM, UNKNOWN REPLICATES: 1 NORM FACTOR: 0 1.00000  
 HALF LIFE (DAYS): N

THU 08 FEB 2007 14:05

SAM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG H#	ERR
1	**- 1	1	19.00	45.88	1.00	1.30	33.0	
		2	12.00	57.74				
		3	11.00	60.30				
2	**- 2	1	34.00	34.30	1.00	2.77	30.0	
		2	12.00	57.74				
		3	16.00	50.00				
3	**- 3	1	11.00	60.30	1.00	4.23	31.0	
		2	10.00	63.25				
		3	9.00	66.67				
4	**- 4	1	32.00	35.36	1.00	5.68	29.0	
		2	88.00	21.32				
		3	57.00	26.49				
5	**- 5	1	50.00	28.28	1.00	7.15	29.0	
		2	56.00	26.73				
		3	23.00	41.70				
6	**- 6	1	26.00	39.22	1.00	8.61	31.0	
		2	14.00	53.45				
		3	17.00	48.51				
7	**- 7	1	18.00	47.14	1.00	10.07	32.0	
		2	11.00	60.30				
		3	15.00	51.64				
8	**- 8	1	8.00	70.71	1.00	11.53	31.0	
		2	6.00	81.65				
		3	15.00	51.64				
9	**- 9	1	17.00	48.51	1.00	12.99	30.0	
		2	13.00	55.47				
		3	14.00	53.45				
10	**-10	1	13.00	55.47	1.00	14.46	33.0	
		2	10.00	63.25				
		3	16.00	50.00				
11	**-11	1	16.00	50.00	1.00	15.93	32.0	
		2	7.00	75.59				
		3	16.00	50.00				
12	**-12	1	11.00	60.30	1.00	17.38	30.0	
		2	13.00	55.47				
		3	13.00	55.47				
13	**- 1	1	9.00	66.67	1.00	18.89	31.0	
		2	11.00	60.30				
		3	12.00	57.74				
14	**- 2	1	18.00	47.14	1.00	20.35	31.0	
		2	14.00	53.45				
		3	15.00	51.64				

*Free*  
 2/8/07



15	**	3	1	12.00	57.74	1.00	21.82	31.0
			2	17.00	48.51			
			3	15.00	51.64			
16	**	4	1	10.00	63.25	1.00	23.28	32.0
			2	8.00	70.71			
			3	7.00	75.59			
17	**	5	1	15.00	51.64	1.00	24.74	29.0
			2	18.00	47.14			
			3	25.00	40.00			
18	**	6	1	13.00	55.47	1.00	26.21	30.0
			2	12.00	57.74			
			3	16.00	50.00			
19	**	7	1	14.00	53.45	1.00	27.67	29.0
			2	16.00	50.00			
			3	10.00	63.25			
20	**	8	1	9.00	66.67	1.00	29.12	33.0
			2	11.00	60.30			
			3	8.00	70.71			
21	**	9	1	18.00	47.14	1.00	30.58	30.0
			2	20.00	44.72			
			3	24.00	40.82			
22	**	10	1	25.00	40.00	1.00	32.05	33.0
			2	17.00	48.51			
			3	16.00	50.00			
23	**	11	1	14.00	53.45	1.00	33.52	30.0
			2	6.00	81.65			
			3	14.00	53.45			
24	**	12	1	16.00	50.00	1.00	34.97	31.0
			2	15.00	51.64			
			3	14.00	53.45			
25	**	1	1	11.00	60.30	1.00	36.47	31.0
			2	4.00	100.0			
			3	19.00	45.88			
26	**	2	1	16.00	50.00	1.00	37.92	30.0
			2	17.00	48.51			
			3	10.00	63.25			
27	**	3	1	17.00	48.51	1.00	39.39	34.0
			2	13.00	55.47			
			3	6.00	81.65			
28	**	4	1	12.00	57.74	1.00	40.86	32.0
			2	10.00	63.25			
			3	15.00	51.64			
29	**	5	1	12.00	57.74	1.00	42.32	32.0
			2	14.00	53.45			
			3	10.00	63.25			
37	**	1	1	8031.00	2.23	1.00	44.03	-4.0
			2	37297.00	1.04			
			3	442.00	9.51			
38	**	2	1	57463.00	0.83	1.00	45.67	-3.0
			2	1477.00	5.20			
			3	13.00	55.47			

14c

2H

*Arndt*  
2/18/07

Beckmann  
Standardials

		3	7.00	75.59				
17	**	5	1	15.00	51.64	1.00	24.74	29.0
			2	18.00	47.14			
			3	25.00	40.00			
18	**	6	1	13.00	55.47	1.00	26.21	30.0
			2	12.00	57.74			
			3	16.00	50.00			
19	**	7	1	14.00	53.45	1.00	27.67	29.0
			2	16.00	50.00			
			3	10.00	63.25			
20	**	8	1	9.00	66.67	1.00	29.12	33.0
			2	11.00	60.30			
			3	8.00	70.71			
21	**	9	1	18.00	47.14	1.00	30.58	30.0
			2	20.00	44.72			
			3	24.00	40.82			
22	**	10	1	25.00	40.00	1.00	32.05	33.0
			2	17.00	48.51			
			3	16.00	50.00			
23	**	11	1	14.00	53.45	1.00	33.52	30.0
			2	6.00	81.65			
			3	14.00	53.45			
24	**	12	1	16.00	50.00	1.00	34.97	31.0
			2	15.00	51.64			
			3	14.00	53.45			
25	**	1	1	11.00	60.30	1.00	36.47	31.0
			2	4.00	100.0			
			3	19.00	45.88			
26	**	2	1	16.00	50.00	1.00	37.92	30.0
			2	17.00	48.51			
			3	10.00	63.25			
27	**	3	1	17.00	48.51	1.00	39.39	34.0
			2	13.00	55.47			
			3	6.00	81.65			
28	**	4	1	12.00	57.74	1.00	40.86	32.0
			2	10.00	63.25			
			3	15.00	51.64			
29	**	5	1	12.00	57.74	1.00	42.32	32.0
			2	14.00	53.45			
			3	10.00	63.25			
37	**	1	1	8031.00	2.23	1.00	44.03	-4.0
			2	37297.00	1.04			
			3	442.00	9.51			
38	**	2	1	57463.00	0.83	1.00	45.67	-3.0
			2	1477.00	5.20			
			3	13.00	55.47			

14c  
3H

*Arce*  
2/18/07

Beckmann  
Standard vials

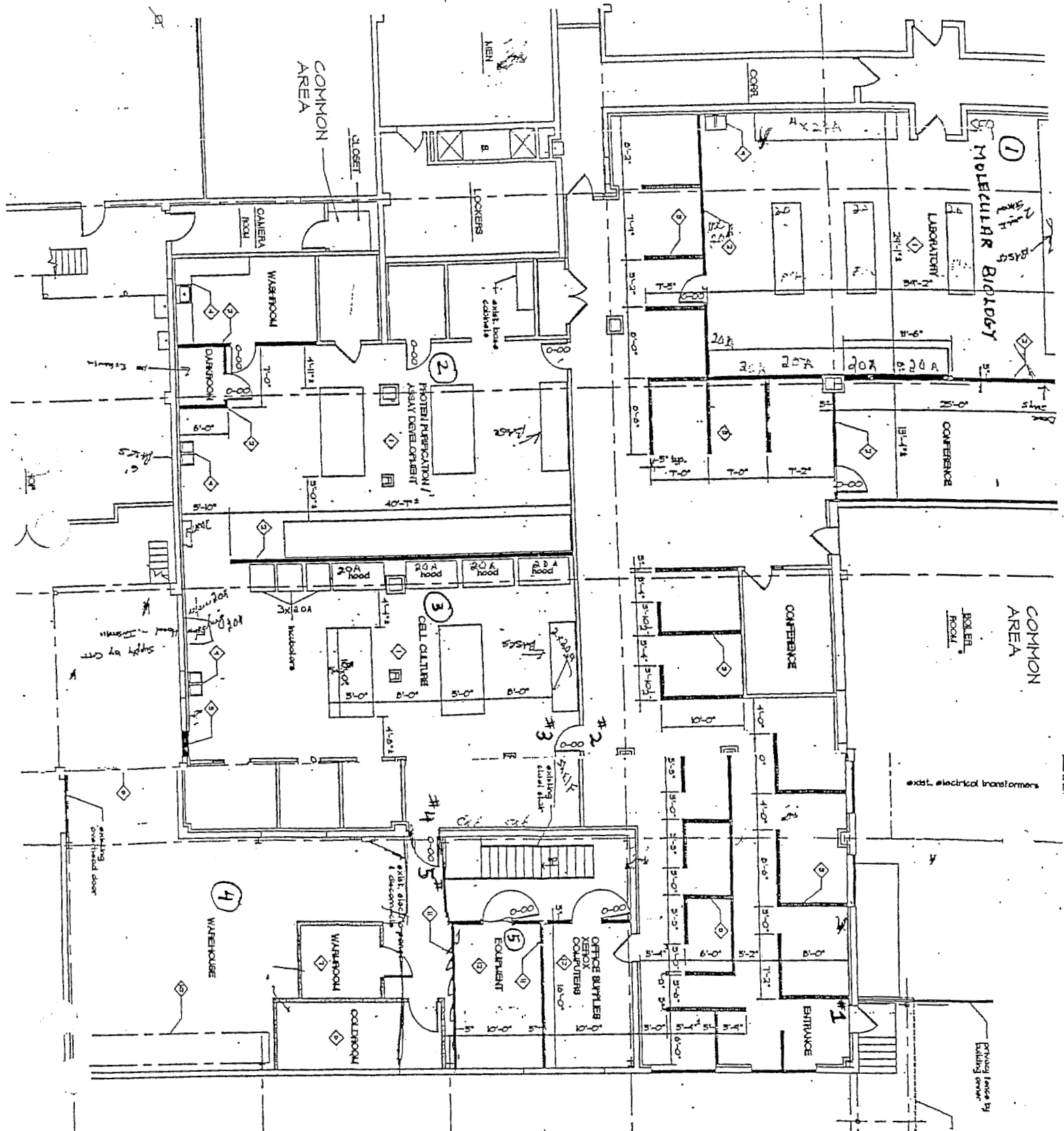
SAM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG	H#
39	**	3	1	23.00	41.70	1.00	47.28	-2.0
			2	4.00	100.0			
			3	11.00	60.30			

Background

*Yan Frost*  
2/19/07

APPENDIX F

445 Marshall Street  
Phillipsburg, NJ 08865



WIPE tests # 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

USER: 1 ID:                    PRESET TIME: 1.00                    THU 08 FEB 2007 15:48  
 SAMPLE REPEAT: 1 CYCLE REPEAT: 1 SCR:N    R5232:N  
 H#: 1 AQC:N QCF:N RCM:N  
 CHANNEL 1-LL: 0 UL: 400 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0  
 CHANNEL 2-LL: 400 UL: 670 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0  
 CHANNEL 3-LL: 670 UL: 1000 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0  
 DATA CALC: CPM, UNKNOWN REPLICATES: 1    NORM FACTOR: 0 1.00000  
 HALF LIFE(DAYS): N

SAM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG H#	ERR
1	**	1	15.00	51.64	1.00	1.30	33.0	
		2	9.00	66.67				
		3	18.00	47.14				
2	**	2	7.00	75.59	1.00	2.77	31.0	
		2	14.00	53.45				
		3	12.00	57.74				
3	**	3	14.00	53.45	1.00	4.23	33.0	
		2	13.00	55.47				
		3	14.00	53.45				
4	**	4	11.00	60.30	1.00	5.68	33.0	
		2	21.00	43.64				
		3	14.00	53.45				
5	**	5	16.00	50.00	1.00	7.13	33.0	
		2	15.00	51.64				
		3	18.00	47.14				
13	**	1	7848.00	2.26	1.00	8.92	-2.0	
		2	37552.00	1.03				
		3	376.00	10.31				
14	**	2	57545.00	0.83	1.00	10.56	-2.0	
		2	1442.00	5.27				
		3	9.00	66.67				
15	**	3	22.00	42.64	1.00	12.18	-2.0	
		2	6.00	81.65				
		3	8.00	70.71				

*Mainentrance door*  
*Cell Lab door outside handle facing offices*  
*Cell lab door inside handle facing cell lab*  
*Equipment door outside facing cell lab*  
*Equipment door inside handle facing equipment room*  
*<sup>14</sup>C std.*  
*3 H std.*  
*Background std.*  
*Beckman standard vials.*

*Fred Alt 2/8/07*



Thursday, February 1, 2007

Naseem Prostat  
Cell & Molecular Technologies, Inc/NJ  
445 Marshall Street  
Phillipsburg, NJ 08865

Dear Attn Prostat:

The attached signed shipping manifest copies are your notice of receipt of the radioactive waste materials shipment specified on the manifest number below.

<u>Manifest Number</u>	<u>Date Received</u>
4295-T070419	02/01/2007

Thank you for your business.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott E. G." with a large, stylized flourish extending from the end of the signature.

Shipping and Receiving

cc: Manifest File  
Shipping and Receiving file

APPROVED BY OMB: NO. 3150-0164  
EXPIRES: 06/30/2007

Estimated burden per response to comply with this information collection request: 45 minutes. This uniform manifest is required by NRC to meet reporting requirements of Federal and State Agencies for the safe transportation and disposal of low-level waste. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F59), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet e-mail to [infocollections@nrc.gov](mailto:infocollections@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NEOS-10202, (3150-0164), Office of Management and Budget, Washington, DC 20503, if a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

FORM 540 EnergySolutions, Bear Creek Processing Operations UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER		5. SHIPPER - NAME AND FACILITY Cell & Molecular Technologies C/O Duratek 445 Marshall Street Phillipsburg, NJ 08865		SHIPMENT ID NUMBER T070419		7. FORM 540 AND 540A FORM 541 AND 541A FORM 542 AND 542A ADDITIONAL INFORMATION		8. MANIFEST NUMBER (Use this number on all continuation pages) T070419									
1. EMERGENCY TELEPHONE NUMBER (include Area Code) (865) 220-1555		USER PERMIT NUMBER		SHIPMENT NUMBER T070419		9. CONSIGNEE - Name and Facility Address EnergySolutions, Bear Creek Processing Operations Operated By EnergySolutions 1560 Bear Creek Road Oak Ridge, TN 37830		CONTACT Fred Schulz TELEPHONE NUMBER (Include Area Code) (865) 481-0222									
ORGANIZATION Duratek Attn: Emergency Duty Officer		CONTACT Nassem Prostak		TELEPHONE NUMBER (Include Area Code) (808) 213-6503		SIGNATURE - Authorized consignee acknowledging waste receipt <i>Janette Johnson</i>		DATE 2/1/07									
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 6		8. CARRIER - Name and Address Duratek operated by Hitman 628 Galloway Road Kingston, TN 37830		EPA I.D. NUMBER TND-98-778-3065		10. CERTIFICATION This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and in proper condition for transportation and disposal in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.									
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If "Yes", provide Manifest Number		EPA MANIFEST NUMBER N/A		CONTACT Karen Kirby		TELEPHONE NUMBER (Include Area Code) 800-233-9933		DATE 1-29-07									
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (including proper shipping name, hazard class, UN ID number, and any additional information)		12. DOT LABEL "RADIOACTIVE"		13. TRANSPORT INDEX		14. PHYSICAL AND CHEMICAL FORM		15. INDIVIDUAL RADIONUCLIDES		16. TOTAL PACKAGE ACTIVITY MBq mCi		17. LSA/SCO CLASS		18. TOTAL WEIGHT OR VOLUME (Use appropriate units)		19. IDENTIFICATION NUMBER OF PACKAGE	
Non-Radioactive per DOT LIQUID		NA		NA		LIQUID/METAL OXIDES		P-32		2.2200E+00 (6.0000E-02)		NA		0.67 R <sup>3</sup> 16.00000 lb		07-000142 (CMT 1)	
Non-Radioactive per DOT LIQUID		NA		NA		LIQUID/METAL OXIDES		P-32		2.2200E+00 (6.0000E-02)		NA		0.67 R <sup>3</sup> 16.00000 lb		07-000143 (CMT 2)	
Non-Radioactive per DOT LIQUID		NA		NA		LIQUID/METAL OXIDES		P-32		2.2200E+00 (6.0000E-02)		NA		0.67 R <sup>3</sup> 17.00000 lb		07-000144 (CMT 3)	
RADIOACTIVE MATERIAL, TYPE A PACKAGE, 7, UN2915 LIQUID		Yellow-White 0		0		LIQUID/METAL OXIDES		P-32		1.3949E+02 (3.7700E+00)		NA		1.33 R <sup>3</sup> 26.00000 lb		07-000145 (CMT 4)	
Radioactive material, excepted package-limited quantity of material, 7, UN2910 DAW		NA		NA		SOLID/METAL OXIDES		P-32		2.2940E+01 (6.2000E-01)		NA		2.00 R <sup>3</sup> 15.00000 lb		07-000146 (CMT 5)	
Radioactive material, excepted package-limited quantity of material, 7, UN2910 DAW		NA		NA		SOLID/METAL OXIDES		P-32		1.9240E+01 (5.2000E-01)		NA		2.00 R <sup>3</sup> 10.00000 lb		07-000147 (CMT 6)	
FOR CONSIGNEE USE ONLY				20. Generator Certification Statement													
Tennessee "License For Delivery" No. _____				A) Radioactive Materials. Certification is hereby made that this shipment of low-level radioactive waste has been prepared in accordance with a radioactive waste management program which has been approved by the Nuclear Regulatory Commission or an Agreement State regulatory agency and with the current revision of the site Material Acceptance Criteria.													
South Carolina Transport Permit No. _____				B) Hazardous Materials. Generator hereby certifies that this material does not contain a hazardous waste as defined in 49 CFR 261.													
US Ecology Generator No. _____				C) Date. Generator hereby represents and warrants that all data set forth in this UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and site Radioactive Material Licenses.													
US Ecology Permit No. _____				D) INFECTIOUS SUBSTANCE: Generator hereby certifies that this material does not contain an infectious substance as defined in 49CFR 173.154													
				<i>Rev By P 2-1-07</i> <b>NASSEM PROSTAK</b> <i>Jan 29, 2007</i> Print Name Signature Date													