

NRC FORM 314 <small>(05-2012)</small> <small>10 CFR 30.36(f)(1); 40.42(f)(1); 70.36(f)(1); and 72.54(k)(5)(1)(i)</small>	U.S. NUCLEAR REGULATORY COMMISSION	APPROVED BY OMB: NO. 3160-0028 <small>Estimated burden per response to comply with this mandatory collection request 30 minutes. This submital 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 Information Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet e-mail to InfoCollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NECB-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.</small>	EXPIRES: 10/31/2013
CERTIFICATE OF DISPOSITION OF MATERIALS			
LICENSEE NAME AND ADDRESS <i>Midwest Cardiology Ass. P.C.</i> <i>19550 E. 39th St, Suite 210</i> <i>Independence, Mo 64055</i>		LICENSE NUMBER <i>24-32674-01</i>	DOCKET NUMBER
		LICENSE EXPIRATION DATE <i>11/30/12</i>	<i>11/6/12</i> <i>Timely Renewal received</i>
A. LICENSE STATUS (Check the appropriate box) <input type="checkbox"/> This license has expired. <input checked="" type="checkbox"/> This license has not yet expired; please terminate it.			
B. DISPOSAL OF RADIOACTIVE MATERIAL <small>(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)</small>			
The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:			
<input type="checkbox"/> 1. No radioactive materials have ever been procured or possessed by the licensee under this license.			
<input checked="" type="checkbox"/> 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.			
<input checked="" type="checkbox"/> a. Transfer of radioactive materials to the licensee listed below: <i>Centerpoint Medical Center of Independence, LLC License 24-18655-01</i>			
<input type="checkbox"/> b. Disposal of radioactive materials:			
<input type="checkbox"/> 1. Directly by the licensee:			
<input type="checkbox"/> 2. By licensed disposal site:			
<input type="checkbox"/> 3. By waste contractor:			
<input type="checkbox"/> 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			
<input checked="" type="checkbox"/> 1. A radiation survey was conducted by the licensee. The survey confirms:			
<input checked="" type="checkbox"/> a. the absence of licensed radioactive materials			
<input type="checkbox"/> b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.			
<input checked="" type="checkbox"/> 2. A copy of the radiation survey results:			
<input checked="" type="checkbox"/> a. is attached; or <input type="checkbox"/> b. is not attached (Provide explanation); or <input type="checkbox"/> c. was forwarded to NRC on: _____ Date _____			
<input type="checkbox"/> 3. A radiation survey is not required as only sealed sources were ever possessed under this license, and			
<input type="checkbox"/> a. The results of the latest leak test are attached; and/or <input checked="" type="checkbox"/> b. No leaking sources have ever been identified.			
The person to be contacted regarding the information provided on this form:			
NAME <i>X</i> <i>Janet Spellman</i>	TITLE <i>X</i> <i>MD</i>	TELEPHONE (Include Area Code) <i>X</i>	E-MAIL ADDRESS <i>X</i>
Mail all future correspondence regarding this license to: <i>X</i> <i>19550 East 39th Street, Suite 210, Independence, Missouri; 64057</i>			
C. CERTIFYING OFFICIAL			
I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT			
PRINTED NAME AND TITLE <i>Janet Spellman Practice Manager</i>	SIGNATURE <i>[Signature]</i>	DATE <i>4/16/13</i>	
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.			

Decommissioning Report

Printed: 4/7/2013

REPORT DECOMMISSIONING OF NUCLEAR MEDICINE AREA

Date: 04/04/13

Location of Decommissioning: Midwest Cardiology Associates, P.C.
19550 East 39th Street, Suite 210
Independence, MO 64055

Rooms Decommissioned: 2nd floor camera room, stress room, hotlab

Management Representative: Daniel Scharf, M.D., CEO

Radiation Safety Officer: Stephen Bloom, M.D.

Chair Radiation Safety Comm: Not Required

Nuclear Medicine Technologist:

RADIOACTIVE MATERIALS LICENSES

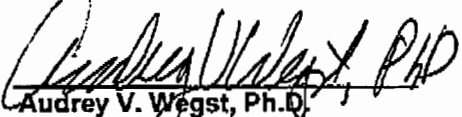
**Nuclear Regulatory Commission
Region III**

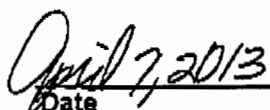
License Number: 24-32674-01
Amendment Number: 2
Expiration Date: 11/30/12

DECOMMISSIONING RESULTS

- 1 No radioactive materials were stored in the area decommissioned.
- 2 No radioactive materials or sources were found during the decommissioning survey.
- 3 The ambient exposure rate survey was acceptable.
- 4 The removable contamination survey was acceptable.

Medical Physics Consultant:


Audrey V. Wegst, Ph.D.
Diagnostic Technology Consultants, Inc.
5930 Roe Avenue
Mission, Kansas 66205


Date

(913) 236-6000
(913) 236-6655 FAX

Radiation Safety Officer:

Stephen Bloom, M.D.

Date

Licensee: Midwest Cardiology Associates, P.C.	License Number: 24-32674-01
Address: 19550 East 39th Street, Suite 210 Independence, MO 64055	Expiration: 11/30/12

Decommission Data

04/04/13

Historical Use:

The area for decommissioning consists of a camera room, stress room and hotlab.

The radioactive materials used in the camera/imaging area consisted of a cobalt-57 sealed source for camera QC. Technetium was used for imaging.

All radioactive waste from dose administration was stored in the hot lab for disposal according to policy.

Equipment and Device Removal:

The rooms were cleared of all equipment, desks, chairs, wall canisters and items that were not permanently fixed in their location.

Wipe Survey Procedure:

Each wipe test sample was collected by wiping an alcohol pad over the surface over an area identified on the diagrams. The wipe sample was secured in the alcohol packet and appropriately identified with the location of the wipe. The wipe samples were then taken to the Diagnostic Technology Consultants, Inc. office for measurement. The wipe samples were placed into the well counter after all required quality control and test measurements were completed. The results of the wipe surveys were then entered into the spread sheet tables in cpm. The dpm was calculated based on the most recent quarterly efficiency testing.

Wipe Test Results Evaluation:

No Detectable Activity (NDA) means the wipe count was equal to or less than the Decision Limit $[BKG + 2.33 \cdot \text{SQRT}(Bkg)]$

Area Survey Procedure:

The survey meter probe was passed in a sweeping motion over each area identified on the diagrams. The probe to surface distance was maintained at a minimum distance of less than 3.0 cm. The background level was established by taking a series of area survey readings in the hallway adjacent to the rooms being surveyed. The background survey readings were determined to be ≤ 3.0 mR/hr.

Area Survey Results and Trigger Level:

The action level was based on any area survey reading exceeding background levels.

Licensee: Midwest Cardiology Associates, P.C. Address: 19550 East 39th Street, Suite 210 Independence, MO 64055	License Number: 24-32674-01 Expiration: 11/30/12
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Survey and Analysis Equipment Parameters

04/04/13

All Equipment used for surveyers are the property of Diagnostic Technology Consultants, Inc.

Well Counter

Manufacturer: Capintec
Model: Caprac-t
Serial Number: 10067

Standard Source Information

Source	Serial No.	Activity (uCi)	Calibration Date	Half-life (Days)	Decay Time (t) (Days)	A(t) (uCi)	A(t) (dpm)
Co-57	13377-66-2	9.81E-02	08/01/09	271.74	1060	6.57E-03	1.46E+04
Ba-133	1036-32-2	1.06E-01	02/01/04	3836.15	3068	6.07E-02	1.35E+05
Co-60	NEN02118	1.21E-01	02/26/80	1925.28	11809	1.72E-03	3.83E+03
Cs-137	962-51-9	9.76E-02	03/01/04	10975.55	3039	8.05E-02	1.79E+05

Minimum Detectable Activity (MDA)

Analysis Date	Source Count (5 min)	Bkg (5 min)	Efficiency	MDA (dpm)	MDA (uCi)
06/26/12	68600	1425	0.921	88	3.97E-05
06/26/12	631970	1425	0.936	87	3.91E-05
06/26/12	9300	1425	0.411	197	8.89E-05
06/26/12	270665	1425	0.301	270	1.21E-04

Licensee: Midwest Cardiology Associates, P.C.	License Number: 24-32674-01
Address: 19550 East 39th Street, Suite 210 Independence, MO 64055	Expiration: 11/30/12

Survey Meter	Probe:
Manufacturer: Ludlum	Manufacturer: Ludlum
Model: 14C	Model: 44-9 (pancake)
Serial Number: 80112	Serial Number: 73932

Per standard operating procedures, constancy checks using a ^{137}Cs sealed source are conducted each day prior to using the equipment. To verify constancy, the measured activity must fall within 3% of the calculated standard activity.

Correction Factors as of June 30, 2012.

Scale Multiplier	Distance (cm)	Calculated mr/hr	Measured (mr/hr)	Correction Factor
1000	37.5	1500	1400	1.07
1000	64.9	500	500	1.00
100	118.5	150	150	1.00
100	205.3	50	50	1.00
10	265.7	15	15	1.07
10	322.6	5	5.2	0.96
1	125.8	1.5	1.5	1.00
1	218	0.5	0.5	1.00
0.1	120.7	0.15	0.15	1.00
0.1	209	0.05	0.05	1.00

Calibrated by Mid-America Calibrations, Inc. 808 SW Nautica Court, Lee's Summit, Missouri 64082, NRC License No. 24-32531-01, with a J.L. Shepherd Model 28-6a calibrator, serial #10018, 1.2 Ci Cs-137, 3M 4F6H, source serial #2824 or a Ludlum Model 500-2 Pulser, serial #127533. The output is traceable to the NBS (N.I.S.T.) and all instruments are calibrated in accordance with MIL-STD 45662A and ANSI N323-1978.

Licensee:	Midwest Cardiology Associates, P.C.	License Number:	24-32674-01
Address:	19550 East 39th Street, Suite 210 Independence, MO 64055	Expiration:	11/30/12

Survey Meter	Probe:
Manufacturer: Ludlum	Manufacturer:
Model: Model 3	Model: End Window
Serial Number: 26027	Serial Number: 11035

Per standard operating procedures, constancy checks using a ^{137}Cs sealed source are conducted each day prior to using the equipment. To verify constancy, the measured activity must fall within 3% of the calculated standard activity.

Correction Factors as of March 29, 2013.

Scale Multiplier	Distance (cm)	Calculated mr/hr	Measured (mr/hr)	Correction Factor
100	117.2	150	145	1.03
100	202.9	50	52	0.96
10	262.6	15	14.5	1.03
10	318.9	5	5.2	0.96
1	124.4	1.5	1.5	1.00
1	215.5	0.5	0.5	1.00
0.1	119.3	0.15	0.15	1.00
0.1	206.7	0.05	0.05	1.00

Calibrated by Mid-America Calibrations, Inc. 808 SW Nautica Court, Lee's Summit, Missouri 64082, NRC License No. 24-32531-01, with a J.L. Shepherd Model 28-6a calibrator, serial #10018, 1.2 Ci Cs-137, 3M 4F6H, source serial #2824 or a Ludlum Model 500-2 Pulser, serial #127533. The output is traceable to the NBS (N.I.S.T.) and all instruments are calibrated in accordance with MIL-STD 45662A and ANSI N323-1978.

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License Number: 24-32674-01
Expiration: 11/30/12

Camera Room Wipe and Survey Locations

04/04/13

CAMERA ROOM						
36.1	36.2	36.3	36.4	36.5	36.6	36.7
36.8	36.9	36.10	1.1	1.2	1.3	1.4
1.5	1.6	1.7	1.8	1.9	1.1	2.1
2.2	2.3	2.4	2.5	2.6	2.7	2.8
2.9	3.1	3.2	3.3	3.4	3.5	3.6
3.7	3.8	3.9	3.1	35.1	35.2	35.3
35.4	35.5	35.6	35.7	35.8	35.9	35.10

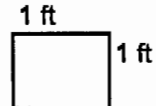
Additional Areas

2.1 Door Handle


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Expiration: 11/30/12

Stress Lab Wipe and Survey Locations
04/04/13



STRESS LAB

28.1	28.2	28.3	28.4	28.5
28.6	28.7	28.8	28.9	28.10
30.1	30.2	30.3	30.4	30.5
30.6	30.7	30.8	30.9	30.10
8.1	8.2	8.3	8.4	8.5 10.8 under counter
8.6	8.7	8.8	8.9	8.10 10.9 under counter
10.1	10.2	10.3 	10.4	10.5 10.10 under counter

Additional Areas

10.6 Sink
10.7 Door Handle

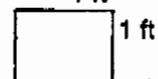
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License Number: 24-32674-01
Expiration: 11/30/12


Hot Lab Wipe and Survey Locations

04/04/13

1 ft



HOT LAB

40.1	40.6	27.1	27.6
40.2	40.7	27.2	27.7
40.3	40.8	27.3	27.8
40.4	40.9	27.4	27.9
40.5	40.10	27.5	 27.10

Additional Areas

Upper Cabinets	Lower Cabinets
12.1	12.6
12.2	12.7
12.3	12.8
12.4	12.9
12.5	12.10

Decommissioning Report

Printed: 4/7/2013

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Independence, MO 64055

License Number: 24-32674-01
Expiration: 11/30/12

RADIATION SURVEY - Page 1 of 3

04/04/13

SURVEY				Radiation Survey			Results
No.	Room	Location	Area	Ambient (mR/hr)	Wipe (cpm)	Wipe (dpm)	
		Background		0.03	328		
36.1	Cam Rm	Floor	Restricted	0.03	303	NDA	PASS
36.2	Cam Rm	Floor	Restricted	0.03	303	NDA	PASS
36.3	Cam Rm	Floor	Restricted	0.03	303	NDA	PASS
36.4	Cam Rm	Counter	Restricted	0.03	313	NDA	PASS
36.5	Cam Rm	Counter	Restricted	0.03	313	NDA	PASS
36.6	Cam Rm	Counter	Restricted	0.03	313	NDA	PASS
36.7	Cam Rm	Counter	Restricted	0.03	301	NDA	PASS
36.8	Cam Rm	Floor	Restricted	0.03	301	NDA	PASS
36.9	Cam Rm	Floor	Restricted	0.03	301	NDA	PASS
36.10	Cam Rm	Floor	Restricted	0.03	282	NDA	PASS
1.1	Cam Rm	Floor	Restricted	0.03	354	NDA	PASS
1.2	Cam Rm	Floor	Restricted	0.03	354	NDA	PASS
1.3	Cam Rm	Floor	Restricted	0.03	354	NDA	PASS
1.4	Cam Rm	Counter	Restricted	0.03	304	NDA	PASS
1.5	Cam Rm	Floor	Restricted	0.03	304	NDA	PASS
1.6	Cam Rm	Floor	Restricted	0.03	304	NDA	PASS
1.7	Cam Rm	Floor	Restricted	0.03	332	NDA	PASS
1.8	Cam Rm	Floor	Restricted	0.03	299	NDA	PASS
1.9	Cam Rm	Floor	Restricted	0.03	299	NDA	PASS
1.10	Cam Rm	Floor	Restricted	0.03	299	NDA	PASS
2.1	Cam Rm	Counter	Restricted	0.03	304	NDA	PASS
2.2	Cam Rm	Floor	Restricted	0.03	304	NDA	PASS
2.3	Cam Rm	Floor	Restricted	0.03	304	NDA	PASS
2.4	Cam Rm	Floor	Restricted	0.03	310	NDA	PASS
2.5	Cam Rm	Floor	Restricted	0.03	310	NDA	PASS
2.6	Cam Rm	Floor	Restricted	0.03	310	NDA	PASS
2.7	Cam Rm	Floor	Restricted	0.03	335	NDA	PASS
2.8	Cam Rm	Floor	Restricted	0.03	335	NDA	PASS
2.9	Cam Rm	Floor	Restricted	0.03	335	NDA	PASS
2.10	Cam Rm	Door Handle	Restricted	0.03	337	NDA	PASS
3.1	Cam Rm	Floor	Restricted	0.03	314	NDA	PASS
3.2	Cam Rm	Floor	Restricted	0.03	314	NDA	PASS
3.3	Cam Rm	Floor	Restricted	0.03	314	NDA	PASS
3.4	Cam Rm	Floor	Restricted	0.03	333	NDA	PASS
3.5	Cam Rm	Floor	Restricted	0.03	333	NDA	PASS
3.6	Cam Rm	Floor	Restricted	0.03	333	NDA	PASS
3.7	Cam Rm	Floor	Restricted	0.03	297	NDA	PASS
3.8	Cam Rm	Floor	Restricted	0.03	297	NDA	PASS
3.9	Cam Rm	Floor	Restricted	0.03	297	NDA	PASS
3.10	Cam Rm	Floor	Restricted	0.03	328	NDA	PASS
35.1	Cam Rm	Floor	Restricted	0.03	314	NDA	PASS
35.2	Cam Rm	Floor	Restricted	0.03	314	NDA	PASS
35.3	Cam Rm	Floor	Restricted	0.03	314	NDA	PASS
35.4	Cam Rm	Floor	Restricted	0.03	311	NDA	PASS
35.5	Cam Rm	Floor	Restricted	0.03	311	NDA	PASS

SURVEY				Radiation Survey			Results
No.	Room	Location	Area	Ambient (mR/hr)	Wipe (cpm)	Wipe (dpm)	
		Background		0.03	328		
35.6	Cam Rm	Floor	Restricted	0.03	311	NDA	PASS
35.7	Cam Rm	Floor	Restricted	0.03	323	NDA	PASS
35.8	Cam Rm	Floor	Restricted	0.03	323	NDA	PASS
35.9	Cam Rm	Floor	Restricted	0.03	318	NDA	PASS
35.10	Cam Rm	Floor	Restricted	0.03	318	NDA	PASS
28.1	Stress Rm	Floor	Restricted	0.03	335	NDA	PASS
28.2	Stress Rm	Floor	Restricted	0.03	282	NDA	PASS
28.3	Stress Rm	Floor	Restricted	0.03	314	NDA	PASS
28.4	Stress Rm	Floor	Restricted	0.03	312	NDA	PASS
28.5	Stress Rm	Floor	Restricted	0.03	312	NDA	PASS
28.6	Stress Rm	Floor	Restricted	0.03	312	NDA	PASS
28.7	Stress Rm	Floor	Restricted	0.03	297	NDA	PASS
28.8	Stress Rm	Floor	Restricted	0.03	297	NDA	PASS
28.9	Stress Rm	Floor	Restricted	0.03	297	NDA	PASS
28.10	Stress Rm	Floor	Restricted	0.03	334	NDA	PASS
30.1	Stress Rm	Floor	Restricted	0.03	289	NDA	PASS
30.2	Stress Rm	Floor	Restricted	0.03	289	NDA	PASS
30.3	Stress Rm	Floor	Restricted	0.03	289	NDA	PASS
30.4	Stress Rm	Floor	Restricted	0.03	295	NDA	PASS
30.5	Stress Rm	Floor	Restricted	0.03	295	NDA	PASS
30.6	Stress Rm	Floor	Restricted	0.03	295	NDA	PASS
30.7	Stress Rm	Floor	Restricted	0.03	308	NDA	PASS
30.8	Stress Rm	Floor	Restricted	0.03	308	NDA	PASS
30.9	Stress Rm	Floor	Restricted	0.03	308	NDA	PASS
30.10	Stress Rm	Floor	Restricted	0.03	324	NDA	PASS
8.1	Stress Rm	Floor	Restricted	0.03	321	NDA	PASS
8.2	Stress Rm	Floor	Restricted	0.03	321	NDA	PASS
8.3	Stress Rm	Floor	Restricted	0.03	321	NDA	PASS
8.4	Stress Rm	Floor	Restricted	0.03	311	NDA	PASS
8.5	Stress Rm	Counter	Restricted	0.03	311	NDA	PASS
8.6	Stress Rm	Floor	Restricted	0.03	311	NDA	PASS
8.7	Stress Rm	Floor	Restricted	0.03	334	NDA	PASS
8.8	Stress Rm	Floor	Restricted	0.03	334	NDA	PASS
8.9	Stress Rm	Floor	Restricted	0.03	334	NDA	PASS
8.10	Stress Rm	Counter	Restricted	0.03	345	NDA	PASS
10.1	Stress Rm	Floor	Restricted	0.03	349	NDA	PASS
10.2	Stress Rm	Floor	Restricted	0.03	349	NDA	PASS
10.3	Stress Rm	Counter	Restricted	0.03	349	NDA	PASS
10.4	Stress Rm	Counter	Restricted	0.03	313	NDA	PASS
10.5	Stress Rm	Counter	Restricted	0.03	313	NDA	PASS
10.6	Stress Rm	Sink	Restricted	0.03	313	NDA	PASS
10.7	Stress Rm	Door Hand	Restricted	0.03	352	NDA	PASS
10.8	Stress Rm	Lower Cabin	Restricted	0.03	352	NDA	PASS
10.9	Stress Rm	Lower Cabin	Restricted	0.03	352	NDA	PASS
10.10	Stress Rm	Lower Cabin	Restricted	0.03	311	NDA	PASS

Survey Performed By: J. Zhan, Ph.D; A. Wegst Ph.D; Greg Wegst
Survey Performed On: 03/08/13
Wipe Test Samples Counted By: Greg Wegst
Wipe Test Samples Counted On: 03/10/13

Background Count: 328
Delta1 (net counts): 42
Delta2 (net counts): 87
Decision Limit (L_D): 370

Decommissioning Report

Printed: 4/7/2013

Licensee: Midwest Cardiology Associates, P.C.
Address: 19550 East 39th Street, Suite 210
Independence, MO 64055

License Number: 24-32674-01
Expiration: 11/30/12

RADIATION SURVEY - Page 2 of 3
04/04/13

SURVEY				Radiation Survey			Results
No.	Room	Location	Area	Ambient (mR/hr)	Wipe (cpm)	Wipe (dpm)	
		Background		0.03	328		
40.1	Hot Lab	Floor	Restricted	0.03	55	NDA	PASS
40.2	Hot Lab	Floor	Restricted	0.03	55	NDA	PASS
40.3	Hot Lab	Floor	Restricted	0.03	55	NDA	PASS
40.4	Hot Lab	Floor	Restricted	0.03	48	NDA	PASS
40.5	Hot Lab	Floor	Restricted	0.03	48	NDA	PASS
40.6	Hot Lab	Floor	Restricted	0.03	48	NDA	PASS
40.7	Hot Lab	Floor	Restricted	0.03	43	NDA	PASS
40.8	Hot Lab	Floor	Restricted	0.03	43	NDA	PASS
40.9	Hot Lab	Floor	Restricted	0.03	43	NDA	PASS
40.10	Hot Lab	Floor	Restricted	0.03	56	NDA	PASS
27.1	Hot Lab	Floor	Restricted	0.03	56	NDA	PASS
27.2	Hot Lab	Floor	Restricted	0.03	56	NDA	PASS
27.3	Hot Lab	Floor	Restricted	0.03	62	NDA	PASS
27.4	Hot Lab	Floor	Restricted	0.03	62	NDA	PASS
27.5	Hot Lab	Floor	Restricted	0.03	62	NDA	PASS
27.6	Hot Lab	Counter	Restricted	0.03	50	NDA	PASS
27.7	Hot Lab	Counter	Restricted	0.03	50	NDA	PASS
27.8	Hot Lab	Counter	Restricted	0.03	50	NDA	PASS
27.9	Hot Lab	Counter	Restricted	0.03	60	NDA	PASS
27.10	Hot Lab	Counter	Restricted	0.03	60	NDA	PASS
12.1	Hot Lab	Upper Cabine	Restricted	0.03	60	NDA	PASS
12.2	Hot Lab	Upper Cabine	Restricted	0.03	65	NDA	PASS
12.3	Hot Lab	Upper Cabine	Restricted	0.03	65	NDA	PASS
12.4	Hot Lab	Upper Cabine	Restricted	0.03	65	NDA	PASS
12.5	Hot Lab	Upper Cabine	Restricted	0.03	54	NDA	PASS
12.6	Hot Lab	Lower Cabine	Restricted	0.03	54	NDA	PASS
12.7	Hot Lab	Lower Cabine	Restricted	0.03	54	NDA	PASS
12.8	Hot Lab	Lower Cabine	Restricted	0.03	60	NDA	PASS
12.9	Hot Lab	Lower Cabine	Restricted	0.03	60	NDA	PASS
12.10	Hot Lab	Lower Cabine	Restricted	0.03	60	NDA	PASS
			Restricted	0.03	60	NDA	PASS
			Restricted	0.03	60	NDA	PASS
			Restricted	0.03	60	NDA	PASS
			Restricted	0.03	60	NDA	PASS
			Restricted	0.03	62	NDA	PASS
			Restricted	0.03	62	NDA	PASS
			Restricted	0.03	62	NDA	PASS
			Restricted	0.03	64	NDA	PASS
			Restricted	0.03	64	NDA	PASS
			Restricted	0.03	64	NDA	PASS
			Restricted	0.03	63	NDA	PASS
			Restricted	0.03	63	NDA	PASS
			Restricted	0.03	63	NDA	PASS
			Restricted	0.03	59	NDA	PASS
			Restricted	0.03	59	NDA	PASS
			Restricted	0.03	59	NDA	PASS

SURVEY				Radiation Survey			Results
No.	Room	Location	Area	Ambient (mR/hr)	Wipe (cpm)	Wipe (dpm)	
		Background		0.03	328		
136			Restricted	0.03	55	NDA	PASS
137			Restricted	0.03	55	NDA	PASS
138			Restricted	0.03	55	NDA	PASS
139			Restricted	0.03	48	NDA	PASS
140			Restricted	0.03	48	NDA	PASS
141			Restricted	0.03	48	NDA	PASS
142			Restricted	0.03	43	NDA	PASS
143			Restricted	0.03	43	NDA	PASS
144			Restricted	0.03	43	NDA	PASS
145			Restricted	0.03	56	NDA	PASS
146			Restricted	0.03	56	NDA	PASS
147			Restricted	0.03	56	NDA	PASS
148			Restricted	0.03	62	NDA	PASS
149			Restricted	0.03	62	NDA	PASS
150			Restricted	0.03	62	NDA	PASS
151			Restricted	0.03	50	NDA	PASS
152			Restricted	0.03	50	NDA	PASS
153			Restricted	0.03	50	NDA	PASS
154			Restricted	0.03	60	NDA	PASS
155			Restricted	0.03	60	NDA	PASS
156			Restricted	0.03	60	NDA	PASS
157			Restricted	0.03	65	NDA	PASS
158			Restricted	0.03	65	NDA	PASS
159			Restricted	0.03	65	NDA	PASS
160			Restricted	0.03	54	NDA	PASS
161			Restricted	0.03	54	NDA	PASS
162			Restricted	0.03	54	NDA	PASS
163			Restricted	0.03	60	NDA	PASS
164			Restricted	0.03	60	NDA	PASS
165			Restricted	0.03	60	NDA	PASS
166			Restricted	0.03	60	NDA	PASS
167			Restricted	0.03	60	NDA	PASS
168			Restricted	0.03	60	NDA	PASS
169			Restricted	0.03	62	NDA	PASS
170			Restricted	0.03	62	NDA	PASS
171			Restricted	0.03	62	NDA	PASS
172			Restricted	0.03	64	NDA	PASS
173			Restricted	0.03	64	NDA	PASS
174			Restricted	0.03	64	NDA	PASS
175			Restricted	0.03	63	NDA	PASS
176			Restricted	0.03	63	NDA	PASS
177			Restricted	0.03	63	NDA	PASS
178			Restricted	0.03	59	NDA	PASS
179			Restricted	0.03	59	NDA	PASS
180			Restricted	0.03	59	NDA	PASS

Survey Performed By: J. Zhan, Ph.D; A. Wegst Ph.D; Greg Wegst
Survey Performed On: 03/08/13
Wipe Test Samples Counted By: Greg Wegst
Wipe Test Samples Counted On: 03/10/13

Background Count: 328
Delta1 (net counts): 42
Delta2 (net counts): 87
Decision Limit (L_d): 370

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 licensed 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
2100 RENAISSANCE BOULEVARD, SUITE 100
KING OF PRUSSIA, PA 19406-2713

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
1600 E. LAMAR BOULEVARD
ARLINGTON, TX 76011-4511



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Fax Cover Sheet

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From:

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