

J-3

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CERTIFICATE OF DISPOSITION OF MATERIALS

LICENSEE NAME AND ADDRESS

St. Luke's Hospital
P.O. Box 1190
Bluefield, West Virginia 24701

LICENSE NUMBER

47-23517-01

DOCKET NUMBER

030-22300

LICENSE EXPIRATION DATE

01/31/2011

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:
Sealed sources (calibration & reference) were transferred to Princeton Community Hospital USNRC License #47-16307-01 Docket # 030-10772
 - b. Disposal of radioactive materials:
 - 1. Directly by the licensee:
All residual patient associated waste and associated radioactive material was decayed and disposed by St. Luke's Hospital.
 - 2. By licensed disposal site:
 - 3. By waste contractor:
 - 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	TITLE	TELEPHONE (Include Area Code)	E-MAIL ADDRESS
Steve Curry	Director of Radiology, Princeton Community Hospital	(304) 487-7735	scurry@pchonline.com

Mail all future correspondence regarding this license to:
Steve Curry Princeton Community Hospital 12th Street Extension Princeton, West Virginia 24740

C. CERTIFYING OFFICIAL

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

PRINTED NAME AND TITLE
Joetta Dotson, Chief Nursing Officer

SIGNATURE
Joetta Dotson

DATE
5/4/07

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.

MAY 14 2007

REC'D IN LAT

140426
NMSS/RGN1 MATERIALS-002

3 May 2007

Licensing Assistant Section
Nuclear Materials Safety Branch
U.S. Nuclear Regulatory Commission, Region I
475 Allendale Road
King of Prussia, PA 19406-1415

Re: Closeout Surveys for St. Luke's Hospital USNRC License # 47-23517-01

To Whom It May Concern:

This letter will constitute the final closeout of St. Luke's Hospital's Nuclear Medicine program. On this date Mr. James Nunn of Physics Associates (USNRC License 45-17344-01) conducted a thorough closeout of radioactive use and storage facilities. Please see the attached documentation for details of survey results.

Scan Room and Treadmill Exercise Area

The scan room and treadmill exercise areas were areas of use not storage of radioactive materials. Surveys of the rooms with the below mentioned GM survey meter yielded no radiation exposure greater than background levels (0.01 mR/hr). Also, there were no major spills this area during the tenure of this radioactive materials program.

Hot Lab Area

- a. **Disposition of Materials:** The hot lab area was the primary use area for all radioactive sources in the hospital. This room contained the receipt area, radio pharmaceutical preparation area, storage area, and waste decay boxes. On this day all waste was disposed as "cold" waste. The measurements from the waste bins were indistinguishable from background radiation levels, using the below mentioned GM survey meter. The sealed sources were transferred to Princeton Community Hospital (Legal Owner of St. Luke's Hospital) whose USNRC license number is 47-16307-01 Docket # 030-10772. Please see the attached USNRC form 314, Certificate of Disposition of Materials, for further details. These sources were packaged and transported in accordance with USNRC and DOT regulations.
- b. **Method of Surveys:** The surveys for fixed and removable contamination were performed in the following manner. The area surveys were conducted with a Bicon Surveyor 2000 GM survey meter with a "pancake" style GM probe with a thin window. The surfaces were scanned in a slow deliberate manner with the "audio" on and the meter in the fast response mode. No

Page 1 of 2

St. Luke's Hospital USNRC License # 47-23517-01
Closeout Survey Results

RECEIVED
REGION I

2007 MAY 14 PM 12:36

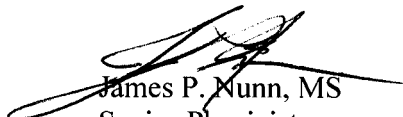
030-22300

exposures were noted above background. The wipe surveys for removable contamination were conducted with an absorbent pad soaked with isopropyl alcohol. The wipes were taken by making "S" shaped swipes across an area of 929 cm² (the floor tiles are 12" x 12") applying moderate pressure to the wipe. The wipes were then counted in a NaI(Tl) wipe counter whose calibration, Minimum Detectable Activity, and efficiency were performed on this date. Please see the attached calibration report for the counting instrument. No wipes were found to have removable contamination that was statistically significant.

Assuming these surveys meet the approval of the Commission, and there is agreement between St. Luke's Hospital and the USNRC regarding the proper disposition of the radioactive materials, we respectfully request that our materials license be terminated. With respect to the hot lab; we will maintain this room as a restricted area until such a time as the Commission terminates the license.

Documentation of the closeout surveys, disposition of material, and personnel radiation monitoring records will be maintained by our parent company, Princeton Community Hospital, until authorized for disposition.

If you have any further questions regarding this amendment request or would like to discuss it further do not hesitate to contact me. The main hospital telephone number is (304) 327-2900.



James P. Nunn, MS
Senior Physicist
Physics Associates

Sincerely,



Joetta Dotson
Chief Nursing Officer
St. Luke's Hospital

- Attachment(s):
1. Inventory and Leak test for sealed sources
 2. Calibration of counting equipment
 3. Closeout survey questionnaire
 4. Survey results
 5. Floor plan and survey grid of Hot Lab area
 6. USNRC for 314 "*Certificate of Disposition of Materials*"

**MEDICAL PHYSICS
SHIELDING DESIGN**

Lee S. Anthony, Ph. D.
Certified Health Physicist
Certified Medical Physicist
Certified Radiologic Physicist

Physics Associates

5346 Peters Creek Road
Roanoke, Virginia 24019
Tel: (540) 563-0165

**RADIATION PHYSICS
EMERGENCY CONSULTATION**

Robert C. Hudson, M. S.
Kay A. Saul, B. S.
Lee S. Anthony, Jr., B. S.; M. A.
James P. Nunn, M.S.

**ST. LUKE'S HOSPITAL
SEALED SOURCE INVENTORY AND LEAK TEST**

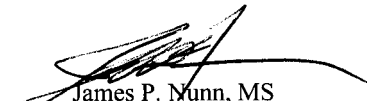
3 May 2007

Date

Present Activity:

1	Co-57	Dose Calibrator Reference Source North American Scientific MED 3550 S/N 64058 5.456 mCi on 5/1/2005	842 uCi
2	Cs-137	Dose Calibrator Reference Source NEN, Cat. NES-356, Vial E Serial #3560681A-47 218 uCi on 6/10/81	122 uCi
3	Cs-137	Well Reference Source NEN # 139A-101089-0006 0.105 uCi on 10/10/89	70.0 nCi
4	Co-57	Flood Source North American Scientific Model MED 3709 S/N 64110 10 mCi on 4/20/2005	1.5 mCi
5	Cs-137	Disk Calibration Source Spectrum Techniques 10 uCi on March 2004	9.3 uCi
6	Co-57	Line Source Ruler; North American Scientific Model MED3502 S/N 99687 80 uCi on 11/1/2006	37 uCi

The above sources, located in the hot lab, were sighted and leak tested on this date. No observable removable contamination was noted. Removable contamination did not exceed 0.005 uCi. These wipe tests were measured on the Capintec CRC-15W NaI(Tl) wipe Counter.


James P. Nunn, MS
Physicist

Nicholas L. Graham, MS
Physicist

Lee S. Anthony, Ph.D.
C.H.P., C.R.P., C.M.P.

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3 May 2007

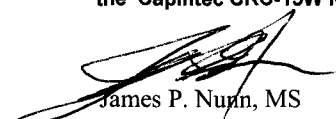
Date

Present Activity:

Retired Sources in Hot Lab

6	Ba-133	Dose Calibrator Reference Source ICN Model # MLD-01, SWO# 352849 233 uCi on 8/30/88	73.8 uCi
7	Co-60	Dose Calibrator Reference Source EGAG 30 CIS-U.S., Inc. 54.8 uCi on 7/8/94	9.4 uCi
8	Cs-137	Reference Source for Molybdenum DuPont Pharmaceuticals S/N S8023003-30 31 uCi on 11/3/2003	14.0 uCi

The above sources, located in the hot lab, were sighted and leak tested on this date. No observable removable contamination was noted. Removable contamination did not exceed 0.005 uCi. These wipe tests were measured on the Capintec CRC-15W NaI(Tl) wipe Counter.


James P. Nunn, MS
Physicist

Nicholas L. Graham, MS
Physicist

Lee S. Anthony, Ph.D.
C.H.P., C.R.P., C.M.P.

WELL COUNTER CALIBRATION & QC

Facility: St. Luke's Hospital

STANDARD INFORMATION

ID: Cs-137 T(1/2) Yrs: 30.200
Abundance(#/dis.): 0.9500
CAL. DATE - Year: 1989 Month: 10 Day: 10
** Standard activity units: 1 = uCi, 2 = dpm, 3 = Bq **
Enter activity unit choice (1-3): 1
uCi on Calib. Date: 0.105

COUNTING DATA

Counting time in minutes for:
Bkd: 1.00 Standards: 1.00
Date Counted- Year: 2007 Month: 5 Day: 3

Instrument Used: Capintec CRC 15W S/N 170608
Counted By: James P. Nunn, MS
Physics Associates

JAW
5/3/07

Table with 2 columns: ID, Counts. Rows: Background (165), Standard (45075)

RESULTS

Ctg. Efficiency = 0.3035 or 30%

Table with 4 columns: Method, Computed uCi, Computed dpm, Computed Bq. Rows: NCRP 58, NRC, 3 x SD (bkd)

COMMENTS:
Well Counter

St. Luke's Hospital Closeout Survey Questionnaire

USNRC Materials License Number: 47-23517-01

Building/room location: Nuclear Medicine Hot Lab

1. List radionuclides used in the room; circle form used (Sealed, Unsealed, or Gas**):**

Radionuclides Used	Form Used	First Use Date	Last Use Date
Tc-99m	S <input checked="" type="radio"/> U G	1990	4/25/2007
Tl-201	S <input checked="" type="radio"/> U G	1990	4/25/2007
I-123	S <input checked="" type="radio"/> U G	1990	4/25/2007
Listing of Calibration Sources (sealed)	S U G		
Co-57	<input checked="" type="radio"/> S U G	1990	4/25/2007
Cs-137	<input checked="" type="radio"/> S U G	1990	4/25/2007
Ba-133	<input checked="" type="radio"/> S U G	1990	4/25/2007
Co-60	<input checked="" type="radio"/> S U G	1990	4/25/2007
	S U G		
	S U G		

2. Did a major spill occur in the room which resulted in residual radioactivity?

No Yes (if yes, attach description)

3. Did any sealed sources stored or used in the room leak or fail a leak test?

No Yes (if yes, attach description)

4. Were sealed sources which require a leak test transferred or relocated from the room?

No Yes (if yes, attach regulatory current test results)

5. Were all radioactive materials, sources, and equipment removed?

No Yes (if no, attach description)

6. Did the closeout survey methods follow best practices in NUREG 1556 Vol. 9?

No Yes (if no, attach alternate methods)

7. What survey instruments were used?

Exposure rate measurements

**Survey meter/probe manufacturer/model: Bicron Surveyor 2000 S/N B424Z
With PGM S/N A563V (thin window 1.35 mg/cm²)**

Calibration date: 4/4/2007

Background reading in mR per hour: 0.02 mR/hr

Surface scans for fixed radioactivity

**Survey meter/probe manufacturer/model: Bicron Surveyor 2000 S/N B424Z
With PGM S/N A563V (thin window 1.35 mg/cm²)**

Calibration date: 4/4/2007

Background reading in CPM or DPM: 50 cpm

Swipe surveys for removable radioactive contamination

**Counting equipment manufacturer/model: Capintec CRC-15W S/N 170680 w/2"
NaI(Tl) Detector**

Background counts: 165 (auto background subtraction)

Calibration source counts: 44910 cpm (0.105 uCi on 10/10/1989)

Calibration source efficiencies: 30 %

Minimum detectable activities (uCi or DPM): 206

8. Were any results for exposure rate measurements or surface scans for fixed radioactivity greater than background readings?

No Yes (if yes, attach description)

9. Were any swipe survey results greater than applicable release criteria in NUREG 1556, Volume 11, Table S.5?

No Yes (if yes, attach description)

10. Information attached (other than listed above).

Room diagram

Survey grid

Counting system calibration/quality assurance results

Other (specify)

**Point of contact Name: James P. Nunn Physics Associates (45-17344-01)
Roanoke Virginia**

Telephone number/e-mail address:(540) 563-0165 Cell (540) 353-2597

St. Luke's Hospital Closeout Survey Results For Hot Lab

1. Numbers in the upper left corner of each box correspond to numbers on the room diagram.
2. Exposure rate measurements in mR per hour. Background reading: 0.01 mR per hour
3. Scanning survey results in counts per minute (CPM). Background reading: 50 CPM
4. DPM¹ and DPM², swipe survey results, in disintegrations per minute per 100 centimeters squared (DPM) for two energy levels, (upper=²⁰¹Tl, ⁵⁷Co, ¹³³Xe, ^{99m}Tc, ¹¹¹In, etc; and lower=¹²⁹I), where:

DPM¹: background counts 165 calibration source 44910 efficiency 30

energy range/radionuclides evaluated 50 keV ->1.5 MeV MDA 206

DPM²: background counts NA calibration source efficiency

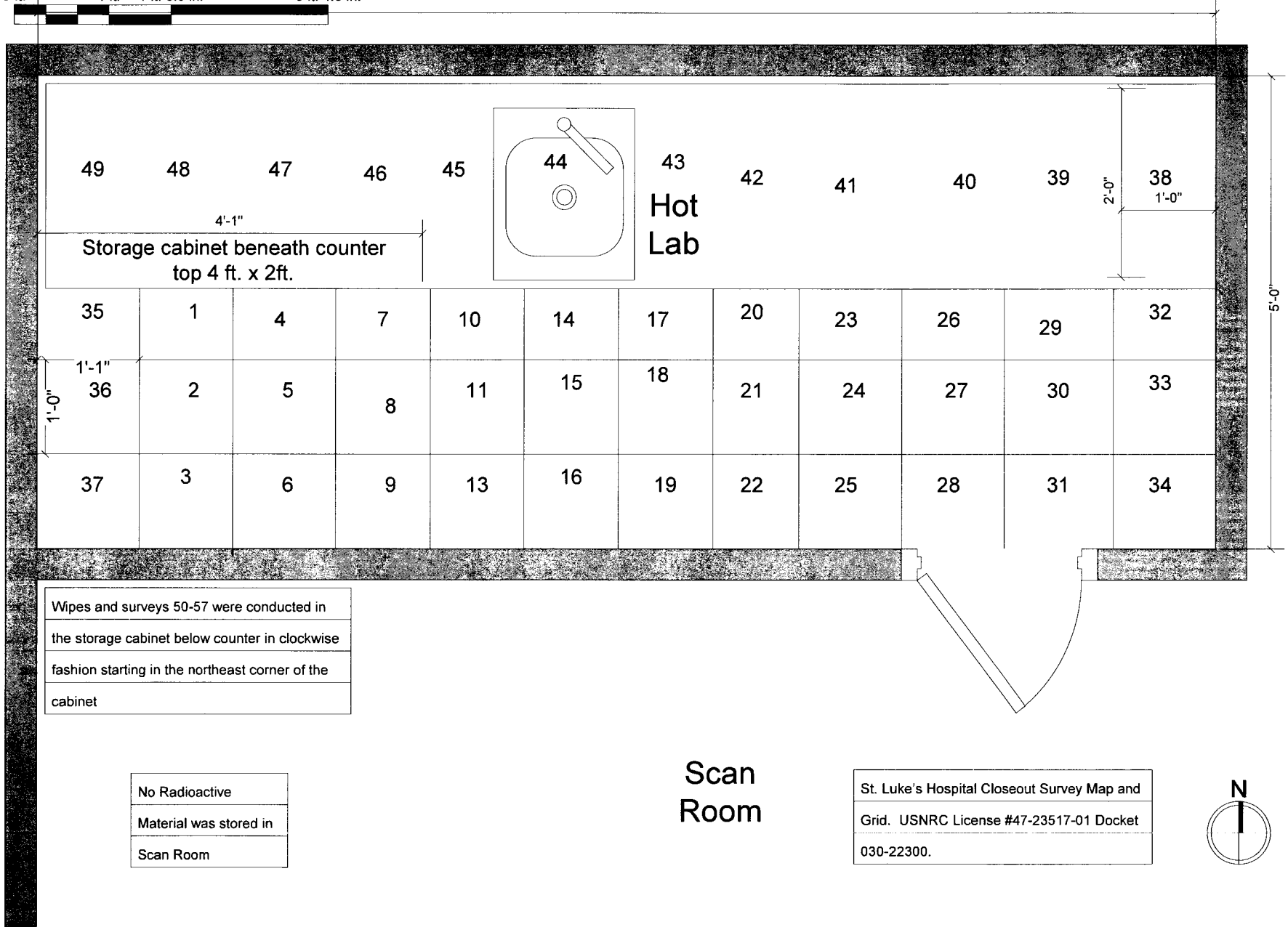
energy range/radionuclides evaluated MDA

1	2	3	4	5
mR: 0.01	mR: 0.01	mR: 0.01	mR: 0.01	mR: 0.01
CPM: 50	CPM: 50	CPM:50	CPM:50	CPM: 50
DPM ¹ : 14	DPM ¹ : 14	DPM ¹ : 14	DPM ¹ : 34	DPM ¹ : 34
DPM ² :	DPM ² :	DPM ² :	DPM ² :	DPM ² :
6	7	8	9	10
mR: 0.01	mR: 0.01	mR: 0.01	mR:0.01	mR:0.01
CPM: 50	CPM: 50	CPM: 50	CPM:50	CPM: 50
DPM ¹ : 34	DPM ¹ : 28	DPM ¹ : 28	DPM ¹ : 28	DPM ¹ : 16
DPM ² :	DPM ² :	DPM ² :	DPM ² :	DPM ² :
11	12	13	14	15
mR:0.01	mR: 0.01	mR: 0.01	mR: 0.01	mR: 0.01
CPM:50	CPM: 50	CPM:50	CPM: 50	CPM: 50
DPM ¹ : 16	DPM ¹ :16	DPM ¹ : 22	DPM ¹ :22	DPM ¹ : 22
DPM ² :	DPM ² :	DPM ² :	DPM ² :	DPM ² :
16	17	18	19	20

mR: 0.01	mR: 0.01	mR: 0.01	mR: 0.01	mR: 0.01
CPM: 50	CPM: 50	CPM: 50	CPM: 50	CPM: 50
DPM ¹ : 18	DPM ¹ : 18	DPM ¹ : 18	DPM ¹ : 1	DPM ¹ : 1
DPM ² :	DPM ² :	DPM ² :	DPM ² :	DPM ² :
21	22	23	24	25
mR: 0.01	mR: 0.01	mR: 0.01	mR: 0.01	mR: 0.01
CPM: 50	CPM: 50	CPM: 50	CPM: 50	CPM: 50
DPM ¹ : 18	DPM ¹ : 38	DPM ¹ : 38	DPM ¹ : 38	DPM ¹ : 8
DPM ² :	DPM ² :	DPM ² :	DPM ² :	DPM ² :
26	27	28	29	30
mR: 0.01	mR: 0.01	mR: 0.01	mR: 0.01	mR: 0.01
CPM: 50	CPM: 50	CPM: 50	CPM: 50	CPM: 50
DPM ¹ : 8	DPM ¹ : 8	DPM ¹ : 1	DPM ¹ : 1	DPM ¹ : 1
DPM ² :	DPM ² :	DPM ² :	DPM ² :	DPM ² :
31	32	33	34	35
mR: 0.01	mR: 0.01	mR: 0.01	mR: 0.01	mR: 0.01
CPM: 50	CPM: 50	CPM: 50	CPM: 50	CPM: 50
DPM ¹ : 1	DPM ¹ : 1	DPM ¹ : 1	DPM ¹ : 2	DPM ¹ : 2
DPM ² :	DPM ² :	DPM ² :	DPM ² :	DPM ² :
36	37	38	39	40
mR: 0.01	mR: 0.01	mR: 0.01	mR: 0.01	mR: 0.01
CPM: 50	CPM: 50	CPM: 50	CPM: 50	CPM: 50
DPM ¹ : 2	DPM ¹ : 12	DPM ¹ : 12	DPM ¹ : 12	DPM ¹ : 1
DPM ² :	DPM ² :	DPM ² :	DPM ² :	DPM ² :
41	42	43	44	45
mR: 0.01	mR: 0.01	mR: 0.01	mR: 0.01	mR: 0.01

CPM: 50	CPM: 50	CPM: 50	CPM: 50	CPM: 50
DPM¹: 1	DPM¹: 1	DPM¹: 18	DPM¹: 18	DPM¹: 18
DPM²:	DPM²:	DPM²:	DPM²:	DPM²:
46	47	48	49	50
mR: 0.01	mR: 0.01	mR: 0.01	mR: 0.01	mR: 0.01
CPM: 50	CPM: 50	CPM: 50	CPM: 50	CPM: 50
DPM¹: 28	DPM¹: 28	DPM¹: 28	DPM¹: 1	DPM¹: 1
DPM²:	DPM²:	DPM²:	DPM²:	DPM²:
51	52	53	54	55
mR: 0.01	mR: 0.01	mR: 0.01	mR: 0.01	mR: 0.01
CPM: 50	CPM: 50	CPM: 50	CPM: 50	CPM: 50
DPM¹: 1	DPM¹: 4	DPM¹: 4	DPM¹: 4	DPM¹: 4
DPM²:	DPM²:	DPM²:	DPM²:	DPM²:
56	57			
mR: 0.01	mR: 0.01			
CPM: 50	CPM: 50			
DPM¹: 18	DPM¹: 18			
DPM²:	DPM²:			

0 ft. 1 ft. 1 ft. 8.0 in. 3 ft. 4.0 in. 12'-6"



Wipes and surveys 50-57 were conducted in the storage cabinet below counter in clockwise fashion starting in the northeast corner of the cabinet

No Radioactive
Material was stored in
Scan Room

Scan Room

St. Luke's Hospital Closeout Survey Map and Grid. USNRC License #47-23517-01 Docket 030-22300.

