



**Mercy Hospital
Administration**
100 Mercy Way
Joplin, MO 64804
phone 417-781-2727
mercy.net

April 30, 2015

U. S. Nuclear Regulatory Commission
Region III
Materials Licensing Branch
2443 Warrenville Road, Suite 210
Lisle, Illinois 60532

NRC License # 24-01090-03: Request to release the Phase 3 (Walden Building) for unrestricted use and to remove the facility (Walden Building) located at 2817 St. John's Blvd., Joplin, Missouri as a location for use and storage in Condition 10.A. of our license.

Dear Materials Licensing Branch:

In March we moved into our new Hospital facility located at 100 Mercy Way, Joplin Missouri. All correspondence should now be addressed to the new Hospital facility.

In March all radioactive material was removed from the Phase 3 (Walden Building) and is now at Mercy Hospital, 100 Mercy Way, Joplin, Missouri. After the removal of all radioactive material from the Phase 3 (Walden Building) Larry Cannon, CNMT, (Lead Nuclear Medicine Technologist) did a complete close-out survey of all areas of use and storage in the Phase 3 (Walden Building).

Our use of radioactive material in the Phase 3 (Walden Building) consisted of:

1. 35.65 Calibration and reference sources
2. 35.100 (I-123 capsules),
3. 35.200 (I-123 capsules, Tc-99m, Ga-67, and In-111)
4. 35.300 (I-131 capsules)

We did not possess any 35.400 material in the Phase 3 (Walden Building)

There was no history of any removable contamination greater than 0.005 microcuries from a calibration or reference source. Attached is a copy of the most recent leak test results on non exempt calibration and reference sources.

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Attached are the results of the radiation exposure close-out surveys and wipe test results along with a diagram indicating where surveys and wipe tests were taken.

Please remove the facility located at 2817 St. John's Blvd., Joplin, Missouri from Condition 10.A. of our license and revise Item 2 of our license to: 100 Mercy Way, Joplin, Missouri 64804-4524.

If you have any questions regarding this close-out request, please contact Whit Sanders, Director Oncology, Nuclear Medicine, Cancer Registry & Research at (417) 556-2937 or Larry Cannon, Lead Nuclear Medicine Technologist at (417) 556-2468.

Sincerely,



Gary W. Pulsipher, President

Attachment: Phase3WaldenBuildingNucMedCloseOut03-22-2015

MEDICAL PHYSICS SURVEY

SEALED SOURCE LEAK TEST ANALYSIS REPORT

Sources used in Phase 3 Walden Building

FACILITY: Mercy Hospital - Joplin DEPARTMENT: Nuclear Medicine
 LOCATION: Joplin, Missouri ATTENTION: Dr. Myers/Dr. Rhoades, RSO

Analysis of the WIPE used to conduct a leak test on the sealed sources identified below was performed by gas or scintillation detection and reveals removable contamination was less than 0.005 μ Ci, unless otherwise noted, when compared against NIST traceable standards.

Source: Cs-137 Vial E, 203 μ Ci, 5/29/84, NEN, Mod. #NES-356, S/N 3560584A-51. (NM)

Date:	3/29/13 TWD	9/27/13 TWD	3/28/14 TWD	9/25/14 TWD	03/27/15 TWD
Wipe No.:	5601	5973	7224	8421	9475
MDA (μ Ci):	2 E-04	2 E-04	2 E-04	2 E-04	2 E-04
Net CPM:	2	32	15	5	1
Net μ Ci:	< MDA	< MDA	< MDA	< MDA	< MDA
CPM for 0.005 μ Ci:	1,500	1,500	1,500	1,500	1,500
Analyst:	LM	LM	LM	LM	LM

Source: Co-57, Flood, 20 mCi, 4/07/12, RadQual, Mod# BM55-20, S/N BM552012068101.

Date:	3/29/13 TWD	9/27/13 TWD	3/28/14 TWD	9/25/14 TWD
Wipe No.:	5602	5974	7225	Shipped to
MDA (μ Ci):	3 E-05	3 E-05	3 E-05	Isotope Products
Net CPM:	2	30	5	for disposal.
Net μ Ci:	< MDA	< MDA	< MDA	Source rec'd @
CPM for 0.005 μ Ci:	10,160	10,160	10,160	Isotope Products on
Analyst:	LM	LM	LM	9/10/14

Source: Co-57, Flood, 10 mCi, 5/01/12, Isotope Products, Mod# PF24R-057-10M, S/N 1587-090.

Date:	3/29/13 TWD	9/27/13 TWD	3/28/14 TWD	9/25/14 TWD
Wipe No.:	5603	5975	7226	Shipped to
MDA (μ Ci):	3 E-05	3 E-05	3 E-05	Isotope Products
Net CPM:	2	30	5	for disposal.
Net μ Ci:	< MDA	< MDA	< MDA	Source rec'd @
CPM for 0.005 μ Ci:	10,160	10,160	10,160	Isotope Products on
Analyst:	LM	LM	LM	9/10/14

Performed by: Associates in Medical Physics, LLC Under License No: 34-26645-02
 TWD - Tom Dickinson (AMP) LM - Lindsey Magnelli (AMP)

MEDICAL PHYSICS SURVEY
SEALED SOURCE LEAK TEST ANALYSIS REPORT
Sources used in Phase 3 Walden Building

FACILITY: Mercy Hospital - Joplin DEPARTMENT: Nuclear Medicine
LOCATION: Joplin, Missouri ATTENTION: Dr. Myers/Dr. Rhoades, RSO

Analysis of the WIPE used to conduct a leak test on the sealed sources identified below was performed by gas or scintillation detection and reveals removable contamination was less than 0.005 μCi , unless otherwise noted, when compared against NIST traceable standards.

Source: Cs-137 Vial , 215 uCi, 7/7/97, DuPont, Mod. # NES-356, S/N 356035-093.

Date:	June 2011 TWD	3/16/14 TWD	3/28/14 TWD	9/25/14 TWD	03/27/15 TWD
Wipe No.:	This source was	Cardinal Health	72274	8422	9476
MDA (μCi):	transferred to	transferred source	2 E-04	2 E-04	2 E-04
Net CPM:	Cardinal Health	back to Mercy	15	5	1
Net μCi :	after tornado hit	Hospital-Joplin	< MDA	< MDA	< MDA
CPM for 0.005 μCi :	the Hospital.	March 2014	1,500	1,500	1,500
Analyst:			LM	LM	LM

Source: Co-57, Flood, 20 mCi, 9/01/14, Isotope Products, Mod# MED 3743, S/N 1753-139.

Date:	9/25/14 TWD	9/25/14 TWD	03/27/15 TWD
Wipe No.:	Initial leak test	8423	9477
MDA (μCi):	done by Isotope	3 E-05	3 E-05
Net CPM:	Products on	8	16
Net μCi :	8/12/14.	< MDA	< MDA
CPM for 0.005 μCi :	<0.005 μCi	10,160	10,160
Analyst:	Isotope Products	LM	LM

Source: Co-57, Flood, 20 mCi, 8/01/14, Isotope Products, Mod# PF24R-057-20M, S/N 1751-108.

Date:	9/25/14 TWD	9/25/14 TWD	03/27/15 TWD
Wipe No.:	Initial leak test	8428	9478
MDA (μCi):	done by Isotope	3 E-05	3 E-05
Net CPM:	Products on	8	16
Net μCi :	6/24/14.	< MDA	< MDA
CPM for 0.005 μCi :	<0.005 μCi	10,160	10,160
Analyst:	Isotope Products	LM	LM

Performed by: Associates in Medical Physics, LLC Under License No: 34-26645-02
TWD - Tom Dickinson (AMP) LM - Lindsey Magnelli (AMP)

Mercy Hospital - Joplin
Phase-3 (Walden Building)
2817 St. John's Blvd.
Joplin, MO

After the removal of RAM from the Phase-3 (Walden Building) radiation surveys and wipe tests were performed in the camera imaging rooms, hot lab area where unit dose radiopharmaceuticals and decay-in-storage bin were, stress testing rooms, patient injection area in hot lab.

Date of Survey and wipe tests: 3/22/15

Surveys and wipe tests were performed by: Larry Cannon, CNMT

Instruments used: 1. Radiation Surveys, Ludlum 14C - pancake probe, S/N 292557, calibration date 10/17/2014, battery and constancy check, OK day of survey.

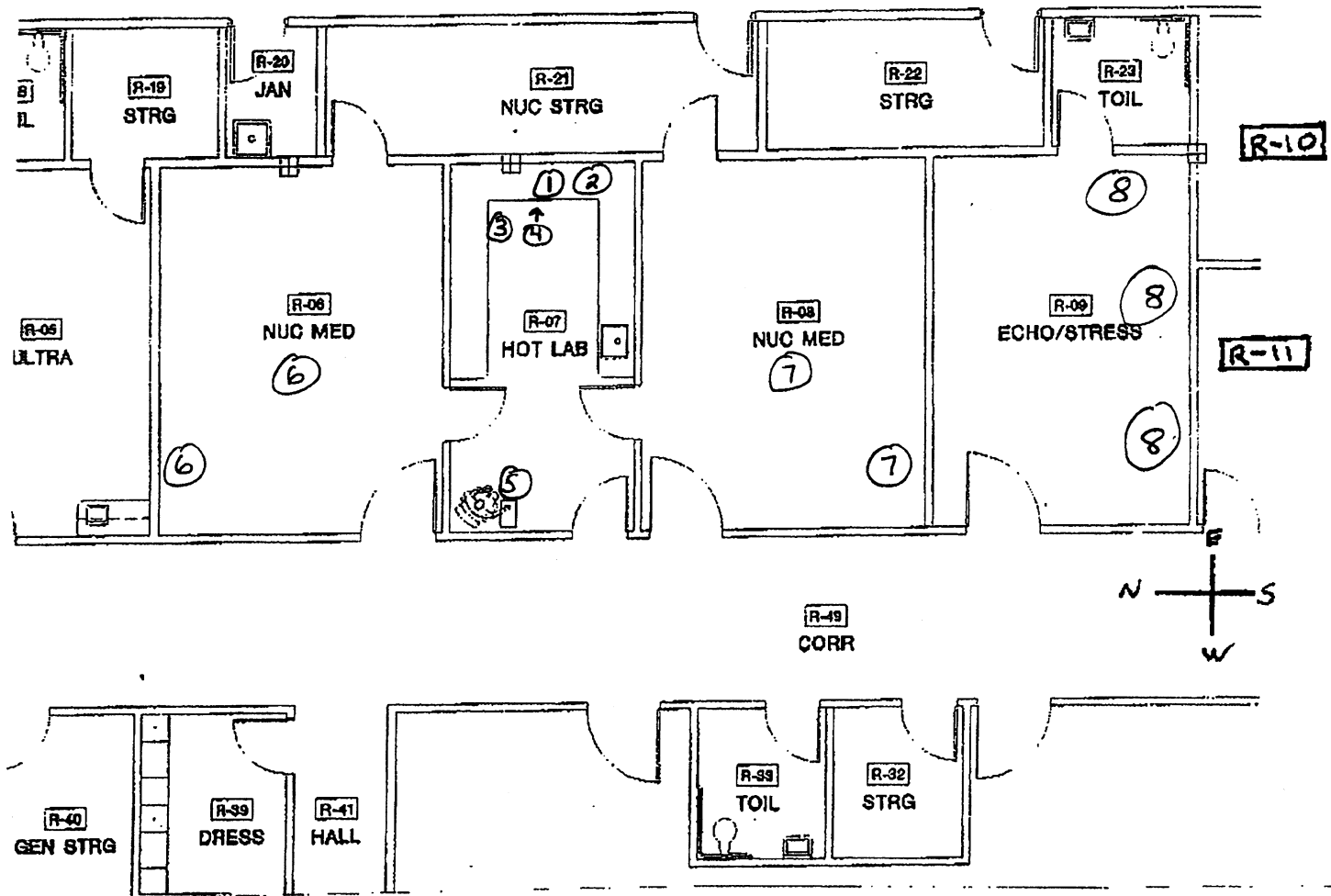
2. Wipe tests, Atom Lab 500 well counter, S/N 1105219, Co-57 efficiency last done 9/25/14, 88%, CF=1.14, LLD =129 dpm and

MDA = 5.8 E-05 uCi above background, when background is 1,428 cpm. Wide counting window 20 - 700 keV used.

Location	GM survey (mR/hr) Most sensitive scale (X0.01) used.	Wipe test (in dpm except background)
Background	0.03	612 cpm
(1) R-07 Hot Lab radiopharmaceutical preparation area. Area around location of L-shield in hood.	0.03	475 dpm
(2) R-07 Hot Lab counter where dose calibrator and well counter were.	0.03	334 dpm
(3) R-07 Hot Lab floor area where RAM was received.	0.03	334 dpm
(4) R-07 Lead lined storage cabinet where 35.65 sources and decay-in-storage was kept.	0.03	122 dpm
(5) R-07 Hot Lab floor injection chair and area below injection chair.	0.03	520 dpm
(6) R-06 Camera Room #1 Cardiac Camera, counter, floor, and gamma camera.	0.03	56 dpm
(7) R-08 Camera Room #2 General gamma camera, floor and gamma camera.	0.03	11 dpm
(8) R-09 Stress Lab floor area where cardiac stress test injections were administered.	0.03	121 dpm

Close-out survey Phase 3 "Walden Building"

Diagram noting (by numbers) specific locations of close-out radiation surveys and wipe tests done 3/22/15.



From: (417) 556-2937
Whit Sanders
Mercy Health
Cancer Center
100 Mercy Way
Joplin, MO 64804

Origin ID: JLNA

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Express



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SHIP TO: (630) 829-9500

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LISLE, IL 60532

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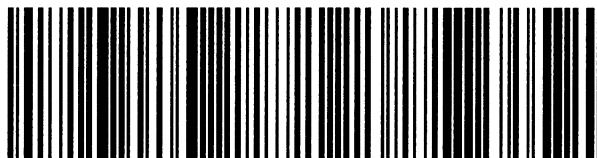
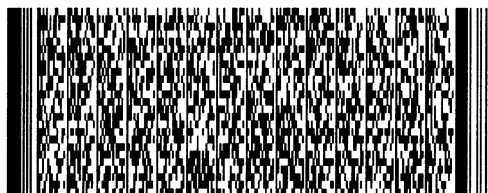
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