



**Porter**  
**REGIONAL**  
**HOSPITAL**

85 East US Highway 6  
Valparaiso, IN 46383  
219.983.8300  
www.porterhealth.com

January 8, 2019

United States Nuclear Regulatory Commission  
Region III, Materials Licensing  
2443 Warrenville Road, Suite 210  
Lisle, IL 60532-4352

**RE: Expedite Requested**  
**Amendment NRC License No. 13-17073-01**  
**Remove location of use**

Dear Sir/Madam:

Please expedite our request for the removal of the 1505 S. Calumet, Chesterton, Indiana facility from our NRC license number 13-17073-01. We are requesting the release of this facility by February 15, 2019. This facility is leased by the hospital. However, the lease agreement was terminated on December 31, 2018. We continue to rent this location on a monthly basis until the approval of this amendment. In addition, the owner of the building has a business that is waiting to rent this facility.

The amendment was not completed and submitted at least 90 days prior to this date due to the need to continue providing patient care until the new PET/CT suite was finished and the scanner was functioning at the hospital location. Due to a scanner malfunction, the last day of patient studies was November 21, 2018. There were many factors out of our control such as the completion of the new PET/CT suite at the hospital, the installation of the new scanner, the decommissioning of the old scanner, and the transfer/disposal of the radioactive sources.

We were unable to complete the close-out surveys any sooner than January 2, 2019. Prior to the close-out survey, the radioactive sealed sources were transferred to the nuclear medicine department at our 85 E. U.S. Hwy 6, Valparaiso, Indiana location on December 4, 2018. In addition, the Ge-68 sealed sources used for PET/CT quality control were returned to Siemens Medical Solutions for disposal on December 18, 2018. The confirmation of receipt from Siemens is attached.

A copy of the last decay-in-storage (DIS) record with survey results is attached. The last date of DIS waste disposal was on November 28, 2018. In addition, please find the most recent sealed source leak test, the close-out survey results and diagram.

RECEIVED JAN 10 2019

If you have any questions, please contact our medical physics consultant, Sharon Updike, MHP, DABR, at 734-662-3197 or at [supdike@mpcphysics.com](mailto:supdike@mpcphysics.com).

Respectfully Yours,

A handwritten signature in blue ink, appearing to read "Sean T. Dardeau", with a long horizontal flourish extending to the right.

Sean T. Dardeau  
CEO  
Porter Regional Hospital

**Sealed Source Leak Test**

Licensee: Porter Northwest Indiana PET/CT Center

Date: 09/20/18

Performed by: Sharon Updike

Nuclide	Type	Calibration Activity	Calibration Date	Location	M/N	S/N
Cs-137	Vial	209 uCi	06/01/10	Hot Lab	IPL	1445-1-6
Current Activity: 172.5 uCi						
Ge-68	Line	1.04 mCi	05/17/17	PET Rm	Siemens	21882
Current Activity: 0.319 mCi						
Ge-68	Line	1.04 mCi	05/17/17	PET Rm	Siemens	21881
Current Activity: 0.319 mCi						
Ge-68	Cylinder	2.45 mCi	05/17/17	PET Rm	Siemens	12260
Current Activity: 0.752 mCi						

Comment: The sources listed above were leak tested using a dry wipe technique and were found to have less than 0.005 uCi removable activity. The leak test wipes were analyzed using instrumentation capable of detecting 185 Bq (0.005 uCi) radioactivity on the wipe.

RADIATION SAFETY OFFICER: \_\_\_\_\_



2017 source receipt + return

Place this copy inside box

### RETURN SOURCE PACKING LIST

**FROM:**  
 Company Name NWT PET/CT  
 Address 1505 S. CALUMET RD  
 City CHESTERTON State IN  
 Zip 46304  
 Contact Name Lori Plankley  
 Phone Number 219-983-6133

**SHIP TO:**  
**SIEMENS**  
 Siemens Medical Solutions  
 810 Innovation Drive  
 Knoxville, TN 37932  
 ATTN: Source Department

**SOURCE INFORMATION**

Isotope	Activity	Reference Date	Serial Number	Model/Description
<u>Ge/NaI68</u>	<u>40.15 Mbg</u> <u>2.45 mCi</u>	<u>5/17/17</u>	<u>12260</u>	<u>Cylinder (Phantom)</u>
<u>Ge/NaI68</u>	<u>38.48 Mbg</u> <u>1.04 mCi</u>	<u>5/17/17</u>	<u>21881</u>	<u>Fine source</u>
<u>Ge/NaI68</u>	<u>38.48 Mbg</u> <u>1.04 mCi</u>	<u>5/17/17</u>	<u>21882</u>	<u>Fine source</u>

If you would like a receipt acknowledgement for these sources please provide a valid FAX number below.

**FAX NUMBER:** 219-983-8006

Received at Siemens Medical Solutions by:  
 Name: Bradford Harmon  
 Date: 12-21-18  
 Comments: Received

# Radioactive Waste Disposal

N.W. IN. PET/CT CENTER



Medical Physics Consultants, Inc.

STORAGE		DISPOSAL				
Radionuclide	Date Stored	BKG. check (mR/hr)	Surface Survey (mR/hr)	Instrument Used	Date Disposed	Name Reviewed by:
F18	11/10/17	0.02	0.02	Ludlum 219487	11/15/17	Jae Plankly
F18	11/19/17	0.02	0.02	Ludlum 219487	11/21/17	Jae Plankly
F18 SHARPS	12/17/17	0.02	0.02	Ludlum 219487	12/20/17	Jae Plankly
F18	12/14/17	0.02	0.02	Ludlum 219487	12/18/17	Jae Plankly
F18	1/15/18	0.02	0.02	Ludlum 219487	1/8/18	Jae Plankly
F18 SHARPS	1/5/17	0.01	0.01	Ludlum 219487	1/8/18	Jae Plankly
F18 SHARPS	1/24/18	0.02	0.02	Ludlum 219487	1-31-18	Lisa Kraus
F18 SHARPS	2-2-18	0.02	0.02	Ludlum 219487	2-5-18	Lisa Kraus
F18 SHARPS	2-2-18	0.02	0.02	Ludlum 219487	2-5-18	Lisa Kraus
F18 SHARPS	2-19-18	0.02	0.02	Ludlum 219487	2-21-18	Lisa Kraus
F18 SHARPS	2-28-18	0.02	0.02	Ludlum 219487	3-2-18	Lisa Kraus
F18 SHARPS	3-14-18	0.02	0.02	Ludlum 219487	3-16-18	Neil Pratt
F18 SHARPS	4-2-18	0.02	0.02	Ludlum 219487	4-4-18	Lisa Kraus
F18 SHARPS	4-13-18	0.02	0.02	Ludlum 219487	4-16-18	Neil Pratt
F18 SHARPS	4-25-18	0.02	0.02	Ludlum 219487	4-27-18	Neil Pratt
F18 SHARPS	4-30-18	0.02	0.02	Ludlum 219487	5-2-18	Neil Pratt
F18 SHARPS	5-11-18	0.02	0.02	Ludlum 219487	5-14-18	Lisa Kraus
F18 SHARPS	5-23-18	0.02	0.02	Ludlum 219487	5-25-18	Lisa Kraus
F18 SHARPS	6-6-18	0.02	0.02	Ludlum 219487	6-8-18	Lisa Kraus
F18 SHARPS	6-15-18	0.02	0.02	Ludlum 219487	6-18-18	Neil Pratt
F18 SHARPS	6-29-18	0.02	0.02	Ludlum 219487	7-2-18	Lisa Kraus
F18 SHARPS	7-11-18	0.02	0.02	Ludlum 219487	7-20-18	Alex P. Wilson
F18 SHARPS	7-30-18	0.02	0.02	Ludlum 219487	8-1-18	Lisa Kraus
F18 SHARPS	8-24-18	0.02	0.02	Ludlum 219487	8-27-18	Neil Pratt
F18 SHARPS	9-17-18	0.02	0.02	Ludlum 219487	9-19-18	Lisa Kraus
F18 SHARPS	9-26-18	0.02	0.02	Ludlum 219487	9-28-18	Lisa Kraus
F18 SHARPS	9-28-18	0.02	0.02	Ludlum 219487	10-1-18	Neil Pratt
F18 SHARPS	10-17-18	0.02	0.02	Ludlum 219487	10-19-18	Neil Pratt
F18 SHARPS	11/6/18	0.02	0.02	Ludlum 219487	11/12/18	Alex P. Wilson
F18 SHARPS	11/21/18	0.02	0.02	Ludlum 219487	11/28/18	Jae Plankly

DEC 13 2017

mrc  
2  
3-13-18

mrc  
2  
9-20-18

final -

## Close-out Survey/Information

**Date performed:** January 2, 2019

**Performed by:** Lori A. Plankey, CNMT

**Comments:** Sealed sources and waste were removed from this location prior to performing the close-out survey.

### **Instruments**

Wipe tests analyzed with a Capintec Captus 4000e Well Counter  
s/n : 940087

Date Efficiency performed: 06/07/18

Radionuclide: Cobalt-57 MDA for Co-57: 26.68 dpm Conversion factor: 1.22 dpm/cpm

Radionuclide: Cesium-137 MDA for Cs-137: 217.9 dpm Conversion factor: 7.62 dpm/cpm

Area survey performed with the following survey meter:

Manufacturer: Ludlum  
Type: GM  
Model Number: 14C  
Serial Number: 219487  
Probe Model: Pancake  
Annual Calibration Performed: 6/28/18  
Battery check acceptable: YES  
Operational check acceptable: YES  
Current reading: 0.6 mR/hr

### **Historical Use of Radionuclides from inception of NRC license**

#### **Unsealed Materials**

F-18, Tc-99m

**Last date of unsealed material use:** November 21, 2018

#### **Sealed Sources**

Co-57, Cs-137, Ge-68

**Last date of sealed source use:** November 21, 2018

**Visual Check:** The area was checked to ensure that all sealed sources and radioactive waste had been removed. No evidence of radioactive material was noted.

**Sealed Source Leak Testing:** No history of leaks from Sealed Sources.

**Radiation Level Survey:** No area within the department demonstrated radiation levels in excess of 0.02 mR/hr.

**Removable Contamination:** No area within the department demonstrated removable contamination in excess of 35.3 dpm.

***Imaging, Hot Lab, Injection/Uptake, Control Room, and Patient bathroom***  
See Diagram Attachment

**Conclusion:** No radioactive materials remain in these areas. No removable contamination is present.

**Porter Regional Hospital - NWI PET/CT**

**License # 13-17073-01**

**CLOSEOUT SURVEY RESULTS**

**Close-out Survey Date:** 1/2/2019

**Performed By:** Lori Plankey

**ACTION LEVELS:** 2000 dpm/100 cm<sup>2</sup>  
< 0.2 mR/hr

Bkg. 0.02 mR/hr  
All areas < 0.02 mR/hr

Bkg. - 332 cpm

Wipe	AREA	net dpm	Wipe	AREA	net dpm
1	PET/CT Scan Rm. Floor	15.3	1	Uptake Rm. Sink	0
2	PET/CT Scan Rm. Floor	20	2	Uptake Rm. Counter	0
3	PET/CT Scan Rm. Floor	0	3	Uptake Rm. Counter	18.4
4	PET/CT Scan Rm. Floor	0	4	Uptake Rm. Counter	0
5	PET/CT Scan Rm. Counter	0	5	Uptake Rm. Floor	0
6	PET/CT Scan Rm. Counter	0	6	Uptake Rm. Counter	0
7	PET/CT Scan Rm. Sink	0	7	Uptake Rm. Floor	40
8	PET/CT Scan Rm. Floor	0	8	Uptake Rm. Floor	21
9	PET/CT Scan Rm. Floor	0	9	Uptake Rm. Floor	0
10	PET/CT Scan Rm. Floor	0	10	Uptake Rm. Floor	0
11	PET/CT Scan Rm. Floor	0	11	Uptake Rm. Floor	0
12	PET/CT Scan Rm. Floor	3	12	Uptake Rm. Floor	0
13	PET/CT Scan Rm. Floor	0	13	Uptake Rm. Floor	9.2
14	PET/CT Scan Rm. Floor	9	1	Patient Restroom floor	0
15	PET/CT Scan Rm. Floor	6.1	2	Patient Restroom floor	0
16	PET/CT Scan Rm. Floor	7.6	3	Patient Restroom toilet	3
17	PET/CT Scan Rm. Floor	0	4	Patient Restroom sink	30
18	PET/CT Scan Rm. Floor	0	5	Patient Restroom floor	35.3
19	PET/CT Scan Rm. Floor	0			
20	PET/CT Scan Rm. Floor	0			
1	Control Rm. Floor	35			
2	Control Rm. Counter	0			
3	Control Rm. Counter	4.6			
4	Control Rm. Counter	12.3			
5	Control Rm. Floor	0			
6	Control Rm. Floor	0			
7	Control Rm. Floor	0			
8	Control Rm. Floor	0			
1	Hot Lab sink	0			
2	Hot Lab Counter	1.5			
3	Hot Lab Counter	6.1			
4	Hot Lab Counter	0			
5	Hot Lab Counter	0			
6	Hot Lab Counter	0			
7	Hot Lab Counter	10.7			
8	Hot Lab Counter	0			
9	Hot Lab Floor	0			



10	Hot Lab Floor	3
11	Hot Lab Floor	0
12	Hot Lab Floor	0
13	Hot Lab Floor	0
14	Hot Lab Floor	0



# Full Suites



