



PAPASTAVROS' ASSOCIATES

MEDICAL IMAGING L.L.C.

May 22, 2008

Mr. Richard McKinley
U.S. Nuclear Regulatory Commission
Region I, Licensing Assistance Team
475 Allendale Road
King of Prussia, PA 19406

Re: NRC Radioactive Material License No. 07-16529-01

Dear Mr. McKinley,

This letter is written to inform you of the facility changes which are occurring at our 1701 Augustine Cut-off, Wilmington, DE 19803 site. As we described in our previous letter of April 2008, we have progressed with our plans for renovation of the areas adjacent to the current nuclear medicine department and the existing nuclear medicine department area.

The area adjacent to the existing nuclear medicine area has been renovated so that it will become a new, expanded section of the nuclear medicine department, Section A. A new ADAC dual head gamma camera was installed there last week and became clinically operational this week (May 19, 2008.) The existing nuclear medicine department area will be renovated to accommodate the installation of a permanent PET-CT unit, Section B. Decommissioning area surveys and wipe tests indicate that this existing area is free of radioactivity (copies enclosed.) These results will be maintained on site for your review during the next NRC inspection. Enclosed with this letter are area floor plans which show Nuclear Medicine Department areas Section A and Section B, as well as the planned locations for daily radiation area surveys and weekly wipe tests.

As per existing license conditions, current equipment will continue to be used to assure proper use, possession, storage, waste disposal, accurate patient dosage administration, and wipe test quantification. The dose calibrator in use in the existing nuclear medicine department was relocated to the new hot lab in Section A. All dose calibrator operational checks following relocation, including geometry, constancy and accuracy checks were performed prior to first use of the device. The hot lab in Section A will include all of the equipment currently in use in the existing hot lab. This includes the dose calibrator syringe shields, L-block, local lead shielding bricks, absorbent protective materials, protective gloves, etc.

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NMSS/RCN1 MATERIALS-002



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Following the renovation and installation of the new PET-CT unit in Section B, the hot lab for that area will be equipped accordingly and all dose calibrator operational checks following relocation, including geometry, constancy and accuracy checks will be performed prior to first use of the device.

Additionally we are requesting that you amend our current license to include the Germanium- 68 (Ge-68) sealed sources, which are used as calibration sources in the GE Discovery LS PET-CT scanner which will be installed in the renovated area. We request permission to use a maximum activity of 30 mCi of Ge-68 at any time.

We hope that you will contact us shortly to clarify any questions you may have regarding this information. Feel free to call Ms. Donna Grace, Operations Manager at 302-652-3016. Thank you for your attention in this matter.

Sincerely yours,

Garth A. Koniver, MD
Radiation Safety Officer

Enclosures

PAPASTAVROS ASSOCIATES
 1701 AUGUSTINE CMT OFF
 WILMINGTON, DE 19803

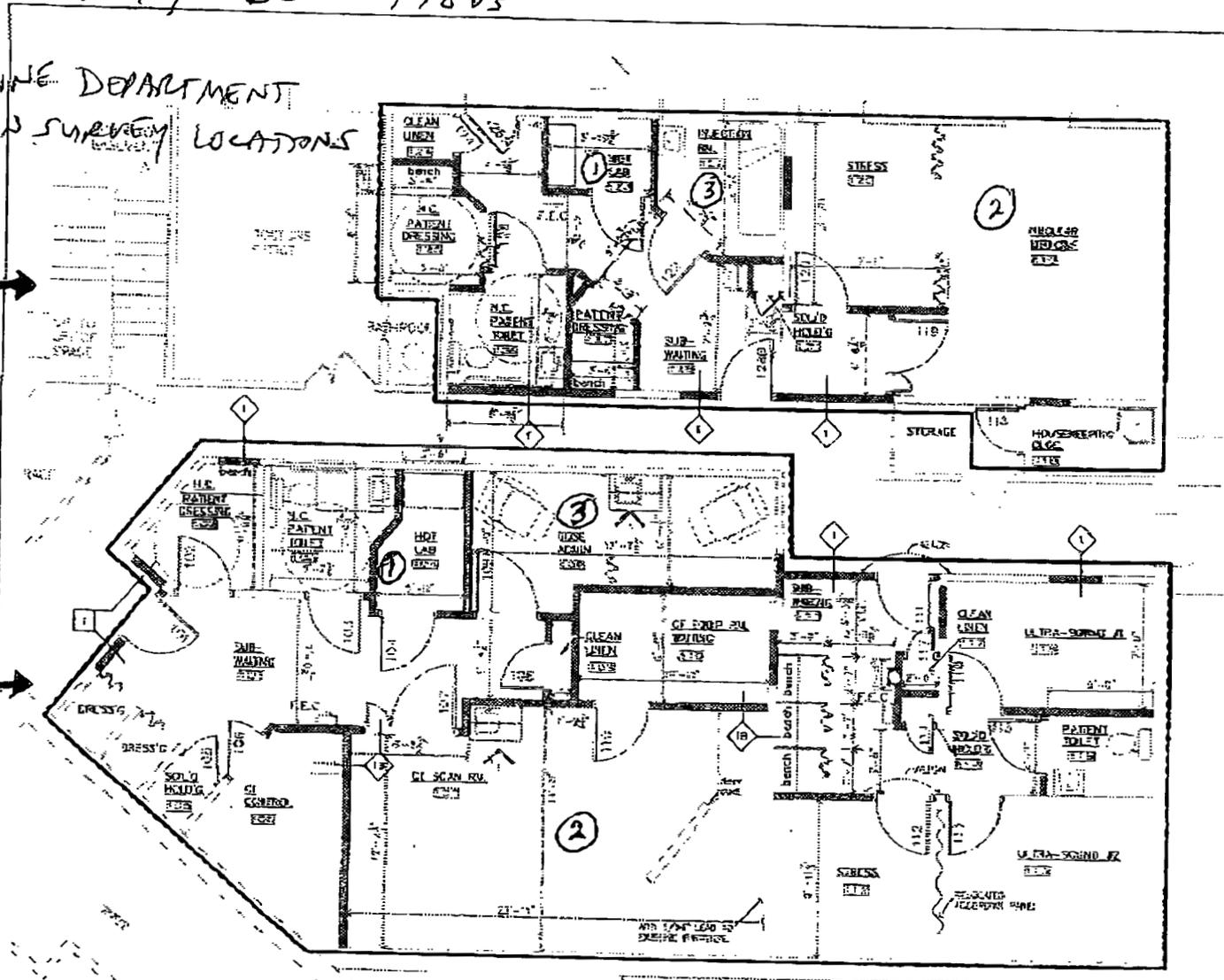
NUCLEAR MEDICINE DEPARTMENT
 DAILY RADIATION SURVEY LOCATIONS

SECTION A:

DUAL HEAD
 CAMERA
 General wipe
 areas
 ①, ②, ③

SECTION B:

PET-CT AREA
 General wipe
 areas
 ①, ②, ③



1 FLOOR PLAN
 A-1 Scale: 1/4"=1'-0"
 (NOT TO SCALE)

Papastavros' Associates Medical Imaging
1701 Augustine Cut-Off
Wilmington DE
Department of Nuclear Medicine

Daily Radiation Surveys
(rev. 05/08)

			Daily Room Surveys					all readings in mR/hr	
SECTION A Gamma Camera Area									
HOT LAB AREA	wipe	TRIGGER	MON	TUE	WED	THUR	FRI	SAT	SUN
1. HOT WASTE AREA	1	5.0 mR/hr							
2. PREP PIT/COUNTER	1	0.5 mR/hr							
3. HOT LAB FLOOR	1	0.5 mR/hr							
SCAN ROOM AREA									
4. FLOOR	2	0.5 mR/hr							
5. TREADMILL	2	0.5 mR/hr							
6. DUAL HEAD CAMERA	2	0.5 mR/hr							
7. COLD TRASH	2	0.1 mR/hr							
INJECTION/PREP AREA									
8. PREP AREA	3	0.5 mR/hr							
9. CAPTUS 500 UPTAKE/WELL	3	0.5 mR/hr							
10. COLD TRASH	3	0.1 mR/hr							
11. SINK	3	0.5 mR/hr							
12. FLOORS	3	0.1 mR/hr							
TECHNOLOGISTS									
13. RHONDA BUDZYN		0.1 mR/hr							
14. SHARON RANDOLPH		0.1 mR/hr							
15. JAIME BILISKI		0.1 mR/hr							
16. JOSEPH WALKER		0.1 mR/hr							
17. LISA DAVIES		0.1 mR/hr							
SURVEY METERS									
EBERLINE ASP-1 S/N# 2820	BKG	mR/hr							
EBERLINE ASP-1 S/N# 1032	BKG	mR/hr							
EBERLINE ASP-1 S/N#2807	BKG	mR/hr							
EBERLINE ASP-1 S/N# 3726	BKG	mR/hr							
EBERLINE ASP-1 S/N# 4051	BKG	mR/hr							
SURVEYOR'S INITIALS									
<p>Each individual area will be surveyed at the end of each working day. Each wipe area will be wiped for removable contamination on Friday and analyzed using the CAPTUS 500 well, serial # 000101. Any daily survey that exceeds the trigger level will also be wiped for removable contamination. Wipes may not exceed 200 dpm/100 sq cm in unrestricted areas or 2000 dpm/100 sq cm in restricted areas. The RSO must be notified when either is met or exceeded.</p>									

Papastavros' Associates Medical Imaging
1701 Augustine Cut-Off
Wilmington DE
Department of Nuclear Medicine

Daily Radiation Surveys
(rev. 05/08)

			Daily Room Surveys						
SECTION B: PET-CT area			all readings in mR/hr						
HOT LAB AREA	wipe	TRIGGER	MON	TUE	WED	THUR	FRI	SAT	SUN
1. HOT WASTE AREA	1	5.0 mR/hr							
2. PREP PIT/COUNTER	1	0.5 mR/hr							
3. HOT LAB FLOOR	1	0.5 mR/hr							
PET-CT AREA									
4. FLOOR	2	0.5 mR/hr							
5. PET-CT UNIT	2	0.5 mR/hr							
6. COLD TRASH	2	0.1 mR/hr							
7. CONTROL AREA/computers	2	0.5 mR/hr							
INJECTION/PREP AREA									
8. PREP AREA	3	0.5 mR/hr							
9. OFFICE COMPUTER	3	0.5 mR/hr							
10. COLD TRASH	3	0.1 mR/hr							
11. PREP ROOM FLOORS	3	0.5 mR/hr							
12. SINK	3	0.5 mR/hr							
TECHNOLOGISTS									
13. RHONDA BUDZYN		0.1 mR/hr							
14. SHARON RANDOLPH		0.1 mR/hr							
15. JAIME BILISKI		0.1 mR/hr							
16. JOSEPH WALKER		0.1 mR/hr							
17. LISA DAVIES		0.1 mR/hr							
SURVEY METERS									
EBERLINE ASP-1 S/N# 2820	BKG	mR/hr							
EBERLINE ASP-1 S/N# 1032	BKG	mR/hr							
EBERLINE ASP-1 S/N#2807	BKG	mR/hr							
EBERLINE ASP-1 S/N# 3726	BKG	mR/hr							
EBERLINE ASP-1 S/N# 4051	BKG	mR/hr							
SURVEYOR'S INITIALS									
<p>Each individual area will be surveyed at the end of each working day. Each wipe area will be wiped for removable contamination on Friday and analyzed using the Capintec Caprac well, serial #001393. Any daily survey that exceeds the trigger level will also be wiped for removable contamination. Wipes may not exceed 200 dpm/100 sq cm in unrestricted areas or 2000 dpm/100 sq cm in restricted areas. The RSO must be notified when either is met or exceeded.</p>									

*Area survey results
+ wipe test removed
by Karen Wigner 5/19/08
No radioactivity present in area.*

Papastavros' Associates Medical Imaging
1701 Augustine Cut-Off
Wilmington DE
Department of Nuclear Medicine

Daily Radiation Surveys

~~DEPT before renovation~~

SECTION B², existing area

			Daily Room Surveys						
			all readings in mR/hr						
2008			5/19						
HOT LAB AREA	AREA	TRIGGER	MON	TUE	WED	THUR	FRI	SAT	SUN
1. HOT WASTE AREA	4	5.0 mR/hr	0.05						
2. PREP PIT/COUNTER	4	0.5 mR/hr	0.05						
3. HOT LAB FLOOR	4	0.5 mR/hr	0.05						
4. SINK	4	0.5 mR/hr	0.05						
SCAN ROOM AREA									
5. STRESS LAB FLOOR	5	0.5 mR/hr	0.05						
6. TREADMILL	5	0.5 mR/hr	0.05						
7. PREP AREA	5	0.5 mR/hr	0.05						
8. OFFICE COMPUTER	6	0.5 mR/hr	0.05						
9. CAPTUS 500 UPTAKEWELL	6	0.5 mR/hr	0.05						
10. COLD TRASH	6	0.1 mR/hr	0.05						
11. SMV FX1 CAMERA	7	0.5 mR/hr	0.05						
12. SMV FX2 CAMERA	7	0.5 mR/hr	0.05						
13. SCAN ROOM FLOORS	7	0.5 mR/hr	0.05						
TECHNOLOGISTS									
14. RHONDA BUDZYN		0.1 mR/hr	0.05						
15. SHARON RANDOLPH		0.1 mR/hr	0.05						
16. JAIME BILISKI		0.1 mR/hr	0.05						
17. LISA DAVIES		0.1 mR/hr							
		0.1 mR/hr							
		0.1 mR/hr							
SURVEY METERS									
EBERLINE ASP-1 S/N# 2820	BKG	mR/hr	0.05						
EBERLINE ASP-1 S/N# 1032	BKG	mR/hr							
EBERLINE ASP-1 S/N# 2807	BKG	mR/hr							
EBERLINE ASP-1 S/N# 3726	BKG	mR/hr							
EBERLINE ASP-1 S/N# 4051	BKG	mR/hr							
SURVEYOR'S INITIALS			OB						
Each individual area will be surveyed at the end of each working day. Each wipe area will be wiped for removable contamination on Friday and analyzed using the CAPTUS 500 well, serial # 000101. Any daily survey that exceeds the trigger level will also be wiped for removable contamination. Wipes may not exceed 200 dpm/100 sq cm in unrestricted areas or 2000 dpm/100 sq cm in restricted areas. The RSO must be notified when either is met or exceeded.									

*All redactions removed
V. Wigner*

MAY 20 2008