

Matthew Rodriguez
Methodist Hospital of Gary, Inc.
8701 Broadway
Merrillville, IN 46410

26 July 2017

Patricia Pelke
Chief, Nuclear Materials Licensing Branch
U.S. Nuclear Regulatory Commission – Region III
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

Re: Amendment to License 13-16558-01

Dear Ms. Pelke,

Methodist Hospital of Gary, Inc. would like to amend its Byproduct Materials License, Number 13-16558-01, to delete 5800 Broadway, Merrillville, Indiana, 46410 as an Address of Use. All licensed activities have been transferred to our 8701 Broadway, Merrillville, Indiana Address of Use.

Attached you will find the following items for 5800 Broadway Address of Use:

- #1: Close Out Survey (1 page)
- #2: Close Out Wipes (1 page)
- #3: Close Out Survey Map (1 page)

Please let me know if any additional information is required.

Thank you for your time and consideration.



Matthew G. Rodriguez, MS DABR
Radiation Safety Officer
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661-477-5529

Northlake Campus
600 Grant Street
Gary, Indiana 46402

Midlake Campus
2269 West 25th Avenue
Gary, Indiana 46407

Southlake Campus
8701 Broadway
Merrillville, Indiana 46410

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Item #1**Close Out Survey**

**Close-out survey of
5800 Broadway, Merrillville, Indiana, 46410 address of use
Performed by: Patrick J. Byrne, DABR, CHP, DABSNM
Medical Physics Consultants, Inc.**

Radioactive materials usage at this address of use was limited to Tc-99m and Tl-201, as licensed under 10 CFR 35.100 and 35.200, along with the use of sealed sources for equipment calibration and quality control. The last usage of radioactive materials in patients occurred in September 2016.

Wipe tests for removable radioactive contamination were taken on 02/6/17 and analyzed in a Ludlum Model 243 (S/N: 145366) Shielded Well Scintillator coupled to a Ludlum Model 2200 (S/N: 138705) Scaler Ratemeter. A window of 50 to 400 keV was used to analyze the wipes. The efficiency of this system for cobalt-57 with a window of 50-400 keV is 1.09 dpm/cpm. The results of the wipe tests are enclosed.

The radiation levels survey was performed on 02/6/17 by Patrick Byrne, using a Ludlum 14C Geiger-Muller survey meter (S/N: 182928). The meter was calibrated on 10/28/16. The range used for the radiation level survey was 0.0 to 0.2 mR/hr.

Visual Inspection

The area was visually inspected to ensure that all radioactive waste had been removed. No radioactive material was located in the area.

Radiation Level Survey

No area demonstrated radiation levels in excess of the background reading of 0.01 mR/hr.

Sealed Sources

All sealed sources have been transferred to the 8701 Broadway address of use. No sealed source had ever been found to be leaking.

Item #2

Close Out Wipes

Removable Contamination Survey Results

Wipe samples were counted in a Ludlum Model 243 Shielded Well Scintillator (S/N: 145366) coupled to a Ludlum Model 2200 Scaler Ratemeter (S/N: 138705). The efficiency of this system for Cobalt-57 with a counting window of 50-400 keV is 1.09 dpm/cpm. Background on this window was 291 counts per minute.

Wipe Number	Gross counts per minute	Net counts per minute	Disintegrations per minute
1	319	28	30.52
2	289	0	0
3	280	0	0
4	308	15	16.35
5	297	6	6.54
6	288	0	0
7	291	0	0
8	290	0	0
9	316	25	27.25
10	291	0	0
11	290	0	0
12	287	0	0
13	299	8	8.72
14	286	0	0
15	320	29	31.61
16	291	0	0
17	320	29	31.61
18	290	0	0
19	299	8	8.72
20	309	18	19.62
21	300	9	9.81
22	296	5	5.45

*Please refer to the attached survey map for wipe locations.

Maximum removable contamination occurred in areas 15 and 17. Gross count rate = 320 cpm/100cm². Net count rate (gross minus background) = 320 - 291 = 29 cpm/100cm². Net removable disintegrations per minute = 29 cpm/100cm² x 1.09 dpm/cpm = 31.61 dpm/100cm².

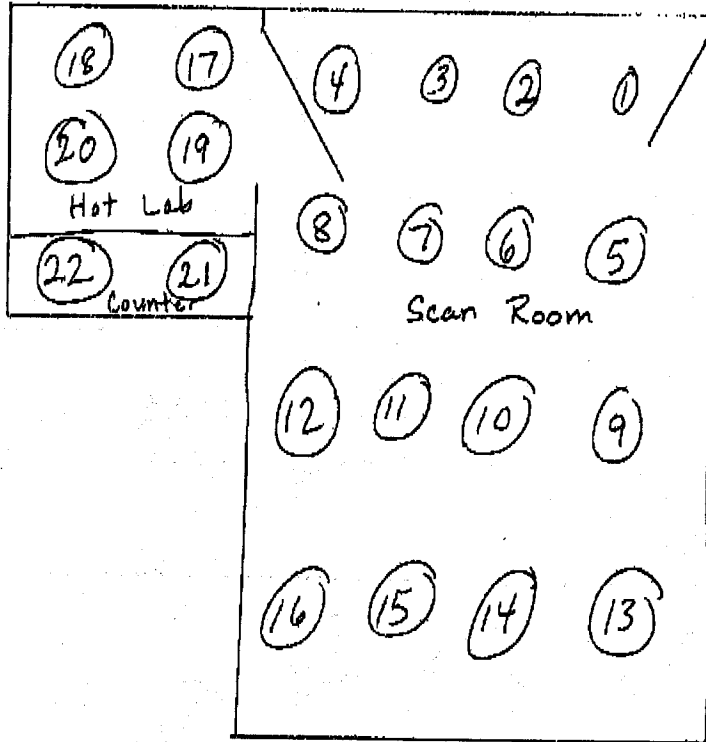
Conclusion

As of 2/6/17, all radioactive materials have been removed from the area of use and no removable contamination is present.

Item #3

Close Out Survey Map

5800 Broadway
Merrillville, IN 46410



Circled numbers refer to wipe sample locations.