

November 10, 2021

U. S. Nuclear Regulatory Commission
Materials Licensing Section
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

Dear Sir or Madam:

St. Joseph Health System, LLC would like to amend our NRC Byproduct Materials License, Number 13-00418-02 to decommission our location of use at 700 Broadway, Fort Wayne, IN 46802. Documentation supporting this decommissioning is enclosed.

Additionally, with the decommissioning of the facility at 700 Broadway we would like to update the name and mailing address listed for our license to:

Lutheran Downtown Hospital
702 Van Buren St.
Fort Wayne, IN 46802

This change is not associated with a change in ownership.

If there are any questions concerning this license renewal, please contact our nuclear medicine physicist, Mr. Bryce A. Caudle, M.S., DABSNM at 317-443-9035, or by email at bcaudle@mpcphysics.com.

Sincerely,



Twilla Lee
Chief Executive Officer

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Close-out survey of Nuclear Medicine Department, St. Joseph Hospital
700 Broadway, Fort Wayne, IN 46802

Performed by: Bryce A. Caudle, M.S., DABSNM
Medical Physics Consultants, Inc.

Radioactive materials usage at this location of use was limited to materials licensed under 10 CFR 35.100, 35.200, 35.300 and 35.500. Sealed radioactive sources were possessed and used for equipment quality control.

Wipe tests for removable radioactive contamination were taken on 11/2/2021 and analyzed in a Ludlum Model 243 (S/N: 117305) Shielded Well Scintillator coupled to a Ludlum Model 2200 (S/N: 116584) Scaler Ratemeter. A window of 50 to 400 keV was used to analyze the wipes. The efficiency of this system for cobalt-57 is 1.15 dpm/cpm. The results of the wipe samples are enclosed.

The radiation levels survey was performed on 11/2/2021 by Bryce Caudle, using a Ludlum Model 14C Geiger-Muller survey meter (S/N: 214938) with an end-window probe. The meter was calibrated on 10/22/2021. 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. All radioactive material signage has been removed from the area.

Radiation Level Survey

No area demonstrated radiation levels in excess of the background reading of 0.02 mR/hr.

Sealed Sources:

All sources have been transferred to the nuclear medicine department located in Lutheran Downtown Hospital. This area had been approved as a location of use by the NRC as part of license amendment 65. Waste materials were disposed of by decay-in-storage. No 35.300 materials had been used in the last year.

Removable Contamination Survey Results

Wipe samples were counted in a Ludlum Model 243 Shielded Well Scintillator (S/N: 117305) coupled to a Ludlum Model 2200 Scaler Ratemeter (S/N: 116584). The efficiency of this system for cobalt-57 is 1.15 dpm/cpm.

Background: 183 counts per minute

Wipe Number	Gross counts per minute	Net counts per minute	Disintegrations per minute
1	196	13	14.95
2	197	14	16.10
3	177	0	0
4	175	0	0
5	180	0	0
6	157	0	0
7	175	0	0
8	208	25	28.75
9	188	5	5.75
10	180	0	0
11	171	0	0
12	172	0	0
13	200	17	19.55
14	175	0	0
15	185	2	2.30
16	175	0	0
17	188	5	5.75
18	208	25	28.75
19	188	5	5.75
20	184	1	1.15
21	209	26	29.90
22	204	21	24.15
23	185	2	2.30
24	177	0	0
25	192	9	10.35
26	193	10	11.50
27	190	7	8.05
28	184	1	1.15
29	174	0	0

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

Maximum removable contamination occurred in area 21. Gross count rate = 209 cpm/100cm².
 Net count rate (gross minus background) = 209 – 183 = 26 cpm/100cm². Net removable disintegrations per minute = 26 cpm/100cm² x 1.15 dpm/cpm = 29.90 dpm/100cm².

Conclusion

All radioactive materials have been removed from the area of use and no removable contamination is present.



**Lutheran
Health Network**
St. Joseph Hospital
700 BROADWAY
FT. WAYNE, IN 46802

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