



DEPARTMENT OF THE ARMY
HEADQUARTERS, UNITED STATES ARMY MEDICAL DEPARTMENT ACTIVITY
4500 STUART STREET
FORT JACKSON, SC 29207-5700

August 16, 2019

G-2

Nuclear Regulatory Commission
Region 1
Division of Nuclear Materials Safety
Attention: Licensing
2100 Reanaisance Blvd, Suite 100
King of Prussia, Pennsylvania 10406-1415

Dear Sir or Madam:

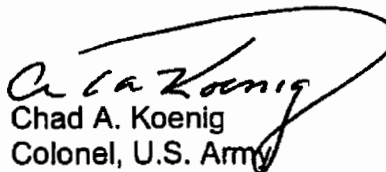
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Request that Nuclear Regulatory Commission License Number 39-14873-01 be amended and subsequently terminated as follows:

- a. Remove Dr. Richard T. Mull as an Authorized User. He is no longer employed at this facility.
- b. Remove Room 1-40 from the radioactive material use areas. The room is no longer used as a Nuclear Cardiology Laboratory and will be repurposed.
- c. Request termination of our Nuclear Regulatory Commission (NRC) license no earlier than October 1, 2019 and in coordination with NRC Region 1. This facility will operate under Defense Health Agency's NRC license number 45-35423-01. The purpose of this request is to ensure that only one NRC license is in effect at this location.

The Moncrief Army Health Clinic Radiation Safety Committee approved both of the amendments requested during the quarterly Radiation Safety Committee meeting on 16 July 2019. The license termination request in coordination with Defense Health Agency was approved on 08 August 2019. For further information, please contact the RSO, CPT Alex R. Parker, at (803) 751-2207 or alex.r.parker2.mil@mail.mil.

Sincerely,


Chad A. Koenig
Colonel, U.S. Army
Commanding

Enclosure

616079

NMSS/RGN1 MATERIALS-002



DEPARTMENT OF THE ARMY
HEADQUARTERS, UNITED STATES ARMY MEDICAL DEPARTMENT ACTIVITY
4500 STUART STREET
FORT JACKSON, SOUTH CAROLINA 29207-5700

REPLY TO
ATTENTION OF

MCXL-MR

13 August 2019

MEMORANDUM FOR RECORD

SUBJECT: Contamination Survey of Nuclear Cardiology Laboratory (Room 1-40) for Removal from Radioactive Material Use Areas

1. REFERENCES:

- a. AR 385-10, The Army Safety Program, 23 August 2007
- b. Department of the Army Pamphlet 385-24, Army Radiation Safety Program, 22 September 2011.
- c. NUREG-1575, Rev 1 "Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM), August 2000
- d. NUREG-1556, Rev 2 "Consolidated Guidance About Materials Licenses", January 2008

2. PURPOSE: To report the results of a contamination survey conducted in the Nuclear Cardiology Laboratory (Room 1-40), USA MEDDAC Fort Jackson.

3. BACKGROUND: The Nuclear Cardiology Laboratory (Room 1-40, USA MEDDAC Fort Jackson) has gone unused by the Department of Radiology for greater than 12 months. The USA MEDDAC Fort Jackson Radiation Safety Committee voted to remove the room from the radioactive material use areas on 16 July 2019. The room was once used to perform various non-invasive cardiovascular imaging studies that are no longer conducted at this facility. Historical reports and local operating procedures indicate that only two types of unsealed byproduct material were used in this room: Technetium-99m and Thallium-201. These nuclides have respective half-lives of 6.008 hours and 3.043 days. Therefore, it has been greater than 100 half-lives since byproduct material has been used in this room and it would be unreasonable to suspect any residual radioactive contamination.

4. IDENTIFYING INFORMATION AND TESTS PERFORMED:

- a. Surveyor: CPT Alex R. Parker, Chief Health Physics, RSO
- b. Date: 13 AUG 2019
- c. Survey Equipment:

Manufacturer	Model	Serial #	ECN	Cal Due Date	Daily QC
Ludlum (meter)	3	313431	017859	7-Sep-2019	Pass
Ludlum (probe)	44-9	PR340933	-	7-Sep-2019	Pass
PerkinElmer	2480 Wizard	SGWZ27140162	017839	15-Feb-2020	Pass

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MCXL-MR

SUBJECT: Contamination Survey of Nuclear Cardiology Laboratory (Room 1-40) for Removal from Radioactive Material Use Areas

- d. Survey procedures: 30 contamination wipe samples of approximately 100 cm² were taken at random from the surfaces of the floor, walls and ceiling. These samples were then counted by the PerkinElmer 2480 Wizard Auto-gamma detector. The surfaces were also monitored for non-removable contamination with a hand-held Ludlum Model 3 GM detector.

5. FINDINGS AND DISCUSSION: This contamination survey was conducted in an abundance of caution. The results indicated no evidence of removable or fixed contamination. All of the counted samples were indistinguishable from background and the direct reading instrument never exceeded twice background. These survey results are in agreement with the previous 12 months of weekly contamination surveys conducted in the same room.

6. RECOMMENDATIONS: The room should be released for unrestricted use by the organization and removed from the list of radioactive material use areas.

7. POC for further information is the undersigned at (803) 751-2207, or by e-mail at alex.r.parker2.mil@mail.mil



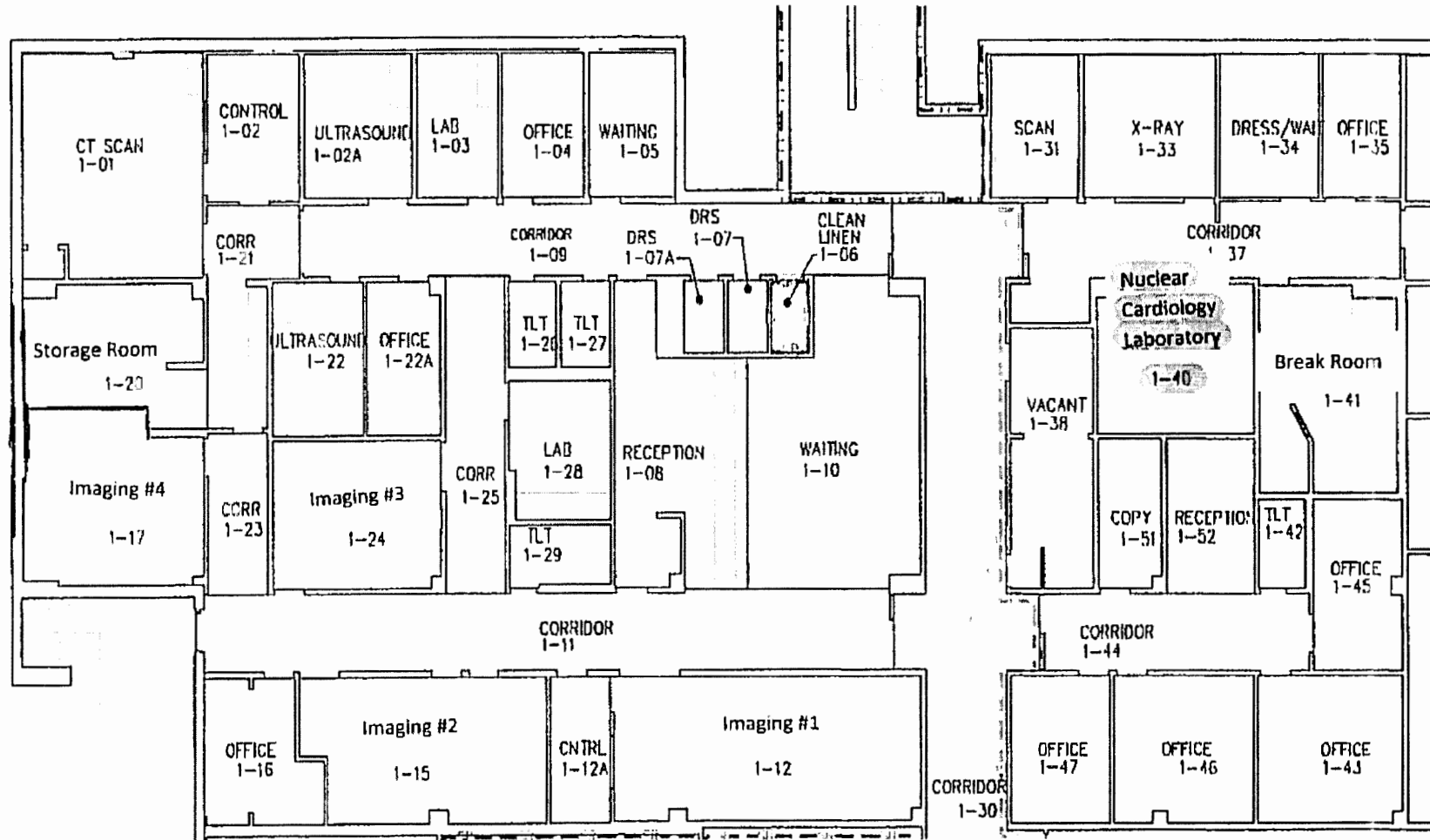
ALEX R. PARKER
CPT, MS
Chief, Health Physics

Encls.

1. Basement Floor Map
2. Room Survey Diagram
3. Auto-gamma Swipe Results
4. Auto-gamma Efficiencies
5. Auto-gamma MDA and Critical Limit

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Nuclear Medicine / Radiology Clinic



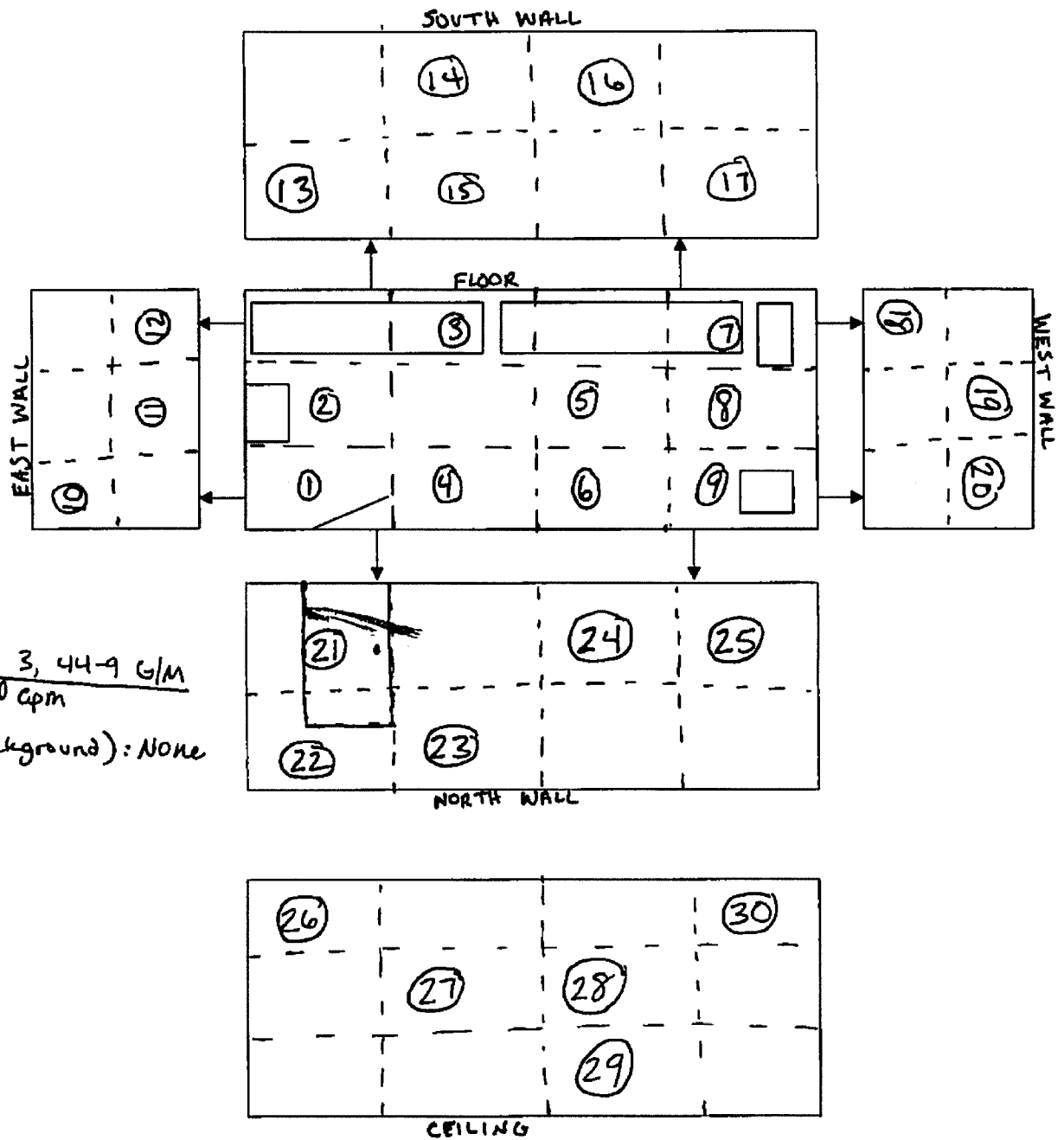
MONCRIEF ARMY HEALTH CLINIC

ORGANIZATION: USA MEDDAC, Fort Jackson

BUILDING NUMBER: 4500

LOCATION: Nuclear Medicine Clinic

ROOM NUMBER: Nuclear Cardiology Laboratory, RM 1-40



Ludlum model 3, 44-9 G/M

Background: 40 cpm

Trigger (2x background): None

Protocol
ID 3Protocol
Name WEEKLY SURVEY

Run ID 585

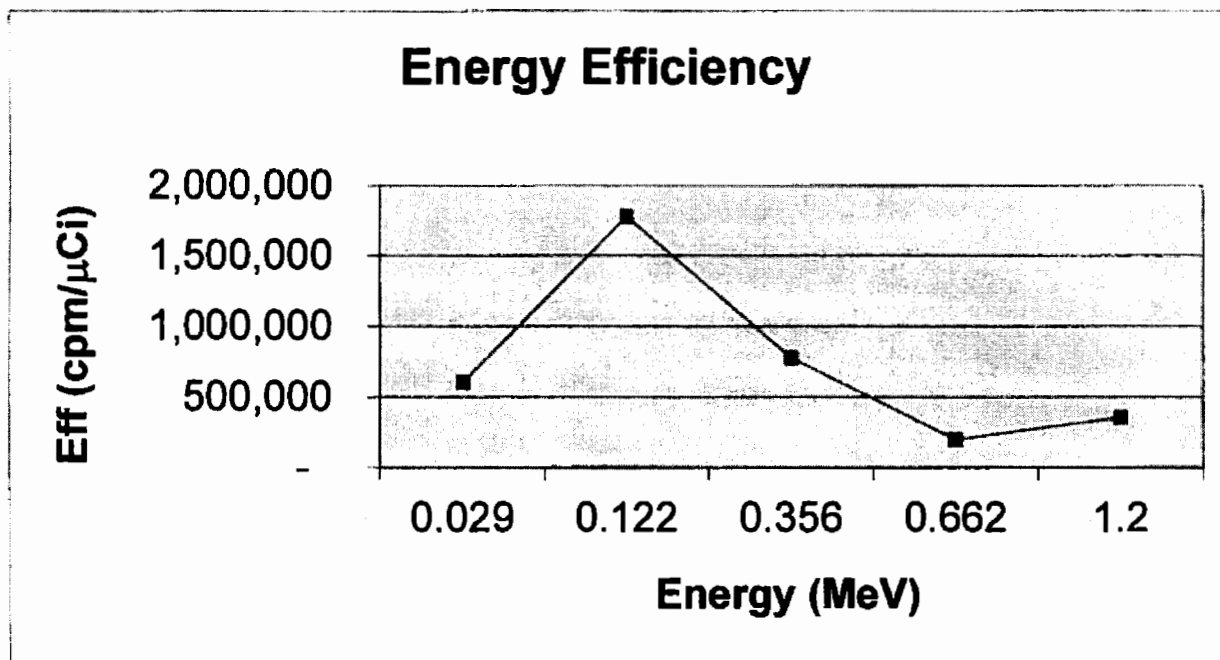
Sample	Measurement date & time	Rack	Pos	Time	Open Counts	Open CPM	Open Error %
1	8/13/2019 15:25:31	1	1	60	380	14	26.83
2	8/13/2019 15:26:46	1	2	60	364	0	0.00
3	8/13/2019 15:28:00	1	3	60	360	0	0.00
4	8/13/2019 15:29:14	1	4	60	381	15	25.91
5	8/13/2019 15:30:28	1	5	60	389	22	21.12
6	8/13/2019 15:31:42	1	6	60	353	0	0.00
7	8/13/2019 15:32:56	1	7	60	341	0	0.00
8	8/13/2019 15:34:10	1	8	60	351	0	0.00
9	8/13/2019 15:35:25	1	9	60	378	12	29.00
10	8/13/2019 15:36:39	1	10	60	349	0	0.00
11	8/13/2019 15:38:11	2	1	60	373	7	38.09
12	8/13/2019 15:39:25	2	2	60	379	13	27.87
13	8/13/2019 15:40:40	2	3	60	331	0	0.00
14	8/13/2019 15:41:54	2	4	60	358	0	0.00
15	8/13/2019 15:43:08	2	5	60	379	13	27.86
16	8/13/2019 15:44:22	2	6	60	343	0	0.00
17	8/13/2019 15:45:36	2	7	60	377	11	30.82
18	8/13/2019 15:46:50	2	8	60	380	14	26.84
19	8/13/2019 15:48:04	2	9	60	361	0	0.00
20	8/13/2019 15:49:18	2	10	60	371	5	46.97
21	8/13/2019 15:50:54	3	1	60	347	0	0.00
22	8/13/2019 15:52:08	3	2	60	345	0	0.00
23	8/13/2019 15:53:22	3	3	60	381	15	26.24
24	8/13/2019 15:54:36	3	4	60	334	0	0.00
25	8/13/2019 15:55:51	3	5	60	371	5	46.97
26	8/13/2019 15:57:05	3	6	60	350	0	0.00
27	8/13/2019 15:58:19	3	7	60	331	0	0.00
28	8/13/2019 15:59:33	3	8	60	342	0	0.00
29	8/13/2019 16:00:48	3	9	60	355	0	0.00
30	8/13/2019 16:02:02	3	10	60	324	0	0.00

Original file

C:\Users\Public\Documents\Wizard2\Reports\000585.csv

Health Physics 2480 Wizard Auto-gamma

Nuclide	Energy Peak (MeV)	Eff(cpm/ μ Ci)	Eff (cpm/dpm)	LL - UL (KeV)	Detector Position	dpm factor
I-129	0.029	608,413	0.27	15 - 100	4	3.65
Co-57	0.122	1,781,678	0.80	100-200	4	1.25
Ba-133	0.356	780,944	0.35	200 - 400	4	2.84
Cs-137	0.662	200,451	0.09	400 - 1000	4	11.08
Co-60	1.2	360,302	0.16	1050-1500	4	6.16



Standards used:

Nuclide	Initial Acitivity (μ Ci)	Cal Date
I-129	5.54E-02	11/5/2013
Co-57	9.40E-02	6/1/2015
Ba-133	1.03E-01	7/15/2000
Cs-137	1.03E-01	3/1/2008
Co-60	9.98E-02	7/15/2000

Analysis performed 12 August 2019

Health Physics 2480 Wizard Auto-gamma

Background Count	365 cpm
Critical Limit	409.51 cpm
Net Counts (1 min)	44.51 Counts
Eff.	0.6 cpm/dpm
MDA	153.3819583 dpm

enc 5

DEFENSE HEALTH AGENCY
7700 ARLINGTON BOULEVARD, SUITE 5101
(PUBLIC HEALTH)
FALLS CHURCH, VA 22042

OFFICIAL BUSINESS



U.S. POSTAGE PITNEY BOWES

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Licensing Assistance Team
Division of Nuclear Materials Safety
U.S. Nuclear Regulatory Committee,
Region 1
2100 Renaissance Blvd., Suite 100
King of Prussia, PA 19406-2713

PRIORITY
★ MAIL ★

TRACKED
★ ★ ★
INSURE



ACKNOWLEDGEMENT - RECEIPT OF CORRESPONDENCE

Name and Address of Applicant and/or Licensee

CPT Alex R. Parker
Radiation Safety Officer
Department of the Army
Moncrief Army Health Clinic (MCXL-MR)
4500 Stuart Street
Fort Jackson, South Carolina 29207-5700

Date

October 8, 2019

License Number(s)

39-14873-01

Mail Control Number(s)

616079

Licensing and/or Technical Reviewer or Branch

Shawn Seeley

This is to acknowledge receipt of your: ☒ Letter and/or ☐ Application Dated: August 16, 2019

The initial processing, which included an administrative review, has been performed.

☐ Amendment ☒ Termination ☐ New License ☐ Renewal

☒ There were no administrative omissions identified during our initial review.

☐ This is to acknowledge receipt of your application for renewal of the material(s) license identified above. Your application is deemed timely filed, and accordingly, the license will not expire until final action has been taken by this office.

☐ Your application for a new NRC license did not include your taxpayer identification number. Please fill out NRC Form 531, Request for Taxpayer Identification Number, located at the following link:
<http://www.nrc.gov/reading-rm/doc-collections/forms/nrc531.pdf>

Send the completed NRC Form 531, by facsimile, to the following number: (301) 415-5387

☐ The following administrative omissions have been identified:

Your application has been assigned the above listed MAIL CONTROL NUMBER. When calling to inquire about this action, please refer to this control number. Your application has been forwarded to a technical reviewer. Please note that the technical review, which is normally completed within 180 days for a renewal application (90 days for all other requests), may identify additional omissions or require additional information. If you have any questions concerning the processing of your application, our contact information is listed below:

Select a location (Use keyboard arrows to select). . .