

BELTON REGIONAL MEDICAL CENTER

17065 S 71 Highway, Belton, MO 64012
(816) 348-1200 p | (816) 348-1271 f
BeltonRegionalMedicalCenter.com



25 July 2016

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

RE: Decommissioning Treadmill Room for Belton Regional Medical Center

On 29 October 2015 Belton Regional Medical Center, holder of license 24-24405-01, requested authorization to move the location of the room in which nuclear stress tests are performed (treadmill room). We would now like to decommission the former stress lab.

The decommissioning report is attached.

If you need to contact us or you need more information, please call Joy Sandborn, Director of Radiology, at (816) 348-1224 or Stephen T. Slack, the radiation safety officer at (816) 276-4449.

Sincerely,

Handwritten signature of Jeffrey Taylor in black ink.

Jeffrey Taylor,
Chief Operating Officer

Handwritten signature of Stephen T. Slack in black ink.

Stephen T. Slack
Radiation Safety Officer

attachments

RECEIVED JUL 28 2016

Decommissioning Report

Belton Regional Medical Center

Room decommissioned: Stress Lab

License Number: 24-24405-01

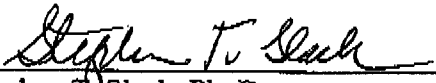
Person Performing Survey: Stephen T. Slack

Date of Survey: 6/28/16

Date of Analysis of Wipes: 6/28/16

Decommissioning Results

1. No radioactive materials were stored in the area decommissioned.
2. Only Tc-99m was ever used in the area decommissioned.
3. No radioactive materials or sources were found during the survey.
4. The ambient exposure rate was acceptable.
5. The removable contamination survey was acceptable.



Stephen T. Slack, Ph. D.
Radiation Safety Officer

7/25/16
Date

Decommissioning Data

Historical Use Cardiac stress tests.
Radiopharmaceuticals labeled with Tc-99m were delivered to Nuclear Medicine and administered either there or in the stress lab.

Wipe tests Each wipe sample was taken by wiping an alcohol pad over the area of floor identified on the diagram. The sample was placed in a plastic tube and identified with the location coordinate. The samples were taken to Research Medical Center and counted with their Capintec Captus 3000, due for calibration 2/8/17.

One minute counts were made in both a Tc-99m window and a broad window. The efficiency of the unit for Tc-99m was 93.2%, based on the most recent efficiency testing by consultants DTC.

Minimum Detectable Activity Ten background measurements were made by counting an empty tube for the same time as the samples. A mean and standard were calculated. The minimum detectable activity (in cpm) was taken to be the mean plus three standard deviations of the background. For the Tc-99m window, this was 13 cpm (14 dpm).

Results All wipes except one were below the minimum detectable activity and that one, in the Tc-99m window, just reached the mda. If not a statistical variant, this would indicate that the maximum removable contamination was 5 cpm per 100 cm² (count minus background).

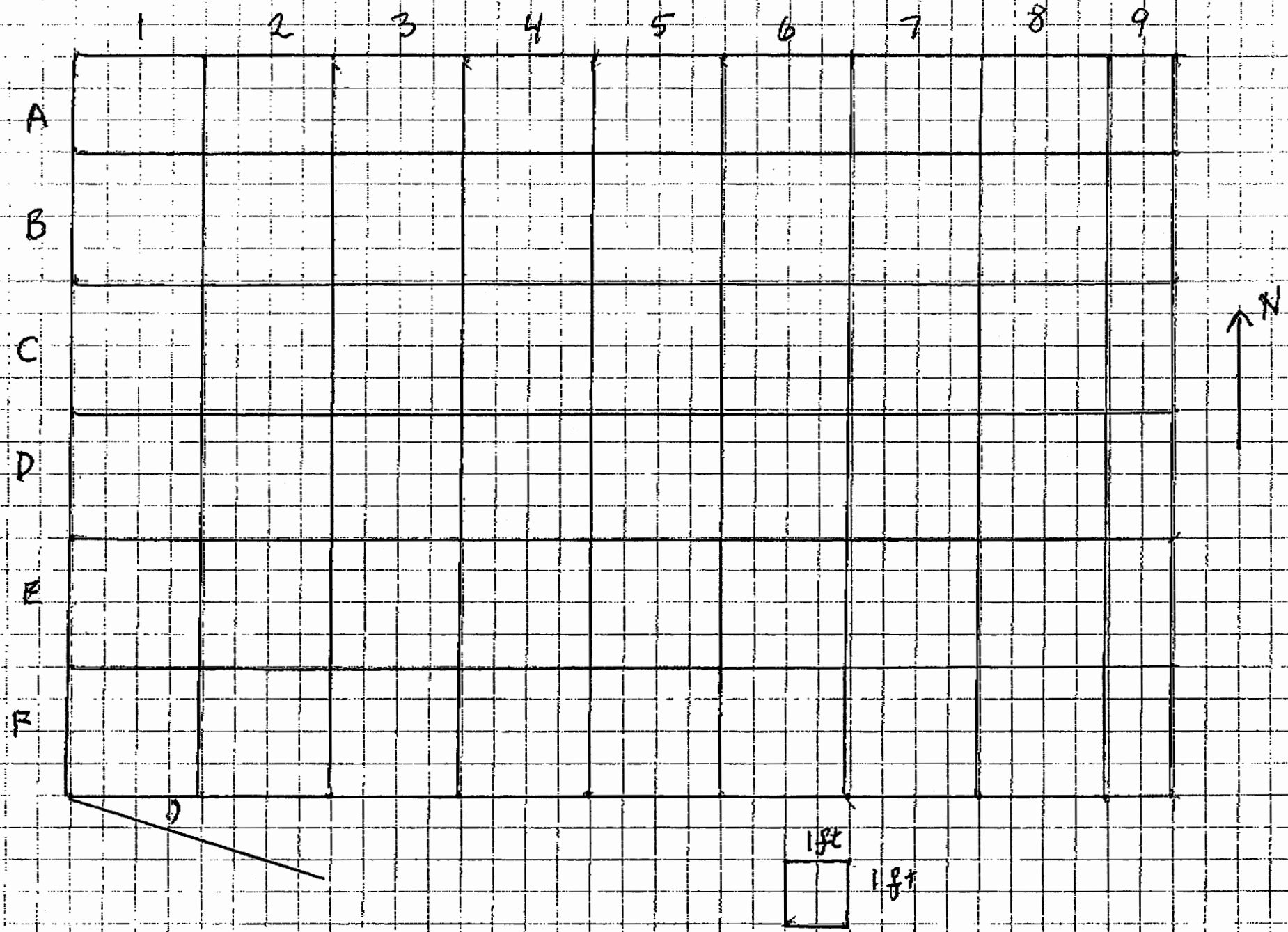
Area Survey Survey Meter: Ludlum Model 14 C
Serial Number: 95031
Probe: 44-9
Probe serial number: 091342
Due for calibration: 1/13/17

The survey meter pancake probe was passed over each area identified in the diagram. The probe distance was approximately ten inches above the floor. Background was taken outside the room.

No area exceeded the expected range based on the background.

Location	Tc-99m window cpm	open window cpm	Survey meter mR/hr	Tc-99m cpm	open window cpm	result
A1	9	88	0.02	< MDA	< MDA	pass
A2	11	112	0.01	< MDA	< MDA	pass
A3	8	117	0.01	< MDA	< MDA	pass
A4	9	108	0.01	< MDA	< MDA	pass
A5	8	108	0.01	< MDA	< MDA	pass
A6	8	99	0.02	< MDA	< MDA	pass
A7	2	80	0.02	< MDA	< MDA	pass
A8	11	94	0.02	< MDA	< MDA	pass
A9	10	87	0.01	< MDA	< MDA	pass
B1	13	111	0.02	5	< MDA	pass
B2	8	72	0.01	< MDA	< MDA	pass
B3	6	90	0.01	< MDA	< MDA	pass
B4	8	115	0.01	< MDA	< MDA	pass
B5	7	93	0.02	< MDA	< MDA	pass
B6	7	115	0.01	< MDA	< MDA	pass
B7	6	92	0.01	< MDA	< MDA	pass
B8	5	114	0.01	< MDA	< MDA	pass
B9	7	113	0.01	< MDA	< MDA	pass
C1	5	95	0.01	< MDA	< MDA	pass
C2	3	104	0.02	< MDA	< MDA	pass
C3	12	96	0.02	< MDA	< MDA	pass
C4	5	87	0.02	< MDA	< MDA	pass
C5	7	99	0.02	< MDA	< MDA	pass
C6	6	96	0.01	< MDA	< MDA	pass
C7	9	112	0.01	< MDA	< MDA	pass
C8	6	112	0.01	< MDA	< MDA	pass
C9	7	109	0.01	< MDA	< MDA	pass
D1	9	100	0.01	< MDA	< MDA	pass
D2	6	112	0.01	< MDA	< MDA	pass
D3	7	88	0.01	< MDA	< MDA	pass
D4	8	105	0.01	< MDA	< MDA	pass
D5	6	105	0.01	< MDA	< MDA	pass
D6	8	101	0.03	< MDA	< MDA	pass
D7	8	105	0.01	< MDA	< MDA	pass
D8	7	98	0.01	< MDA	< MDA	pass
D9	9	105	0.02	< MDA	< MDA	pass
E1	8	108	0.01	< MDA	< MDA	pass
E2	3	104	0.02	< MDA	< MDA	pass
E3	7	102	0.02	< MDA	< MDA	pass
E4	4	100	0.03	< MDA	< MDA	pass
E5	10	88	0.01	< MDA	< MDA	pass
E6	12	118	0.02	< MDA	< MDA	pass
E7	6	89	0.02	< MDA	< MDA	pass
E8	10	89	0.02	< MDA	< MDA	pass
E9	10	106	0.02	< MDA	< MDA	pass
F1	6	111	0.01	< MDA	< MDA	pass
F2	10	115	0.02	< MDA	< MDA	pass
F3	6	92	0.02	< MDA	< MDA	pass
F4	7	104	0.02	< MDA	< MDA	pass
F5	6	83	0.01	< MDA	< MDA	pass
F6	7	101	0.02	< MDA	< MDA	pass
F7	14	96	0.01	< MDA	< MDA	pass
F8	6	87	0.03	< MDA	< MDA	pass
F9	6	96	0.01	< MDA	< MDA	pass

Background	Tc-99m window	open window
1	8	102
2	5	115
3	8	105
4	9	97
5	6	107
6	10	131
7	8	103
8	6	104
9	10	99
10	9	99
average	7.9	106.2
Std. dev.	1.7	10.4
MDA	13	137
net		
cpm at MDA	5	31



Research Medical Center
 2316 East Meyer Boulevard
 Kansas City, MO 64132
 Telephone # 816-276-4449
 Fax # 816-276-3478

To Materials Licensing From Stephen T. Slack, Ph. D., RSO

Company USNRC Date 7/25/16

Fax Number (630) 515-1078 Total number of pages including cover sheet 7

Phone Number _____

RE Decommissioning Survey for Bo/TM

Notes/Comments Regional Medical Center