

RADIOLOGICAL PHYSICS SERVICE, INC.

3839 Napier Road ↻ Plymouth, Michigan 48170

(734) 455-4730

August 28, 2017

Mr. Daniel Struhmeyer
U.S. Nuclear Regulatory Commission
Division of Nuclear Materials Safety
Region III
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

Dear Struhmeyer:

Enclosed is a copy of the sealed source leak test and inventory for the transfer of the sources from 5084 Villa Linde Parkway, #6, Flint, MI 48532 to 6122 W. Pierson Road, Unit 1, Flushing, MI 48433.

Materials License: 21-35275-01

Control Number: 600336

If there are any questions please call our physicist Ray A. Carlson, MS at (734) 455-4730 office or (734) 395-7361 cell.

Sincerely,



Ray A. Carlson, M.S., DABR, DABMP
Medical Physicist, RSO

RECEIVED AUG 28 2017

Location: Advanced Cardiovascular Clinic

Date of Inspection: August 1, 2017

SEALED SOURCE INVENTORY

Nuclide	Type	Location	Calibration Activity	Calibration Date	Mfgr.	M/N	S/N
Cs-137	Vial	Hot Lab	213 uCi	07/29/14	Benchmark	BM06E-37	BM06137E14195107
Co-57	Vial	Hot Lab	5680 uCi	04/02/12	Benchmark	BM06E-57	BM06057E12083144
Cs-137	Rod	Hot Lab	0.1108 uCi	09/18/14	Benchmark	BM08-37	BM0813714258104
Ba-133	Vial	Hot Lab	256.4 uCi	0901/06	IPL		1145-53-2

RSO: _____

SEALED SOURCE LEAK TEST

Nuclide	Type	Location	Calibration Activity	Calibration Date	Mfgr.	M/N	S/N
Cs-137	Vial	Hot Lab	213 uCi	07/29/14	Benchmark	BM06E-37	BM06137E14195107
Co-57	Vial	Hot Lab	5680 uCi	04/02/12	Benchmark	BM06E-57	BM06057E12083144
Ba-133	Vial	Hot Lab	256.4 uCi	0901/06	IPL		1145-53-2

COMMENT: *The sources listed above were leak tested using a wipe technique and were found to have less than 0.005 uCi removable activity.*

TESTED BY: Ray A. Carlson, M.S.

DATE: August 1, 2017

RSO: _____

CLOSE OUT SURVEY

Advanced Cardiovascular Clinic
Villa Linde Parkway #6
Flint, MI 48532


License: 21-35275-01

RE: Close out survey of location

1. Date of Survey: August 1, 2017
2. Diagram of the department and the wipe test results are attached.
3. The survey meter readings were less than 0.02 mR/hr for all areas.
4. The survey meter background reading was 0.02 mR/hr.
5. The survey meter used was a Ludlum model 14C (S/N 204416) with an end window GM probe. It was last calibrated June 27, 2017.
6. The wipe tests were assayed on an Canberra Series 20 multi-channel well counter. The minimum detectable activity for Tc-99m, Tl-201 is 61 dpm at 95% confidence.
7. The survey was performed by Ray A. Carlson, M.S., Medical Physicist from Radiological Physics Service, Inc. (License No.: 21-26253-01).
8. All sealed sources were transferred to the new location of use at 6122 W. Pierson Road, Unit 1, Flushing, MI 48433.
9. All waste was decayed to background and disposed of properly. No patient procedures had been performed for two months.

The location is certified to be free of radioactive material and contamination and may be released for unrestricted use with the approval of the State.

All wipe tests were below the 2000 dpm limit and all GM survey meter readings were at background (0.02mR/hr).


Ray A. Carlson, M.S.
DABR, DABMP
Medical Physicist/RSO

Wipe Test Results

Advanced Cardiovascular Clinic
Villa Linde Parkway #6
Flint, MI 48532


License: 21-35275-01

RE: Close out survey of location

Date: August 1, 2017

Area	CPM	Net CPM	DPM
Background	220		
1	200	0	0
2	200	0	0
3	200	0	0
4	200	0	0
5	200	0	0
6	200	0	0
7	200	0	0
8	200	0	0

- All wipes were below the 2000 DPM limit.
- All wipe areas were surveyed with a GM survey meter and all areas recorded less than 0.02 mR/hr. Wipes were then analyzed in well counter.


Ray A. Carlson, M.S.
DABR, DABMP
Medical Physicist/RSO

C O V E R

S H E E T

FAX

To: DAN STROHMETER

Fax #: 630-515-1078

Subject:

Date: 8/28/17

Pages: 5, including this cover sheet.

COMMENTS:

CONTROL NO. 600336

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