

Beaumont

Beaumont Hospital, Dearborn
18101 Oakwood Blvd.
Dearborn, MI 48124

January 15, 2019

U.S. Nuclear Regulatory Commission, Region III
Attn: Materials Licensing Section, Magdalena R. Gryglak
2443 Warrenville Rd.

LISLE, IL 60532-4352

RE: Amendment Request
NRC License #21-04515-01

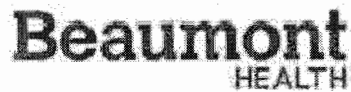
Per our phone conversation on 1/15/19 regarding the removal of Cs-137 from NRC license #21-04515-01 the leak test table on page two of the attached document has been updated.

If you have any other questions please contact me at 248-551-7072 or by email at lisa.benedetti@beaumont.org.

Sincerely,

Lisa A. Benedetti

Lisa A. Benedetti
Director Clinical Physics
3601 W. 13 Mile Rd.
Royal Oak, MI 48073



Department of Radiation Oncology - Dearborn
Removal of ¹³⁷Cs sources

Date: January 22, 2016

Physicist: Evelyn Sebastian

The ¹³⁷Cesium sources were permanently removed from the hot lab in radiation oncology by RAM Services, Inc. to a low level radioactive waste site. The lead safes were removed for disposal

1. The sources were inventoried.

| Color Code | Model | Serial Number | mgRaEq | Manufacture Date | mgRaEq Today | mCi Today ¹ |
|------------|---------|---------------|--------|------------------|--------------|------------------------|
| Red | 6D6C-CA | 1523 | 10.6 | 10/17/1973 | 4.01 | 10.16 |
| | 6D6C-CA | 1493 | 10.6 | 10/17/1973 | 4.01 | 10.16 |
| | 6D6C-CA | 1513 | 10.6 | 10/17/1973 | 4.01 | 10.16 |
| | 6D6C-CA | 1485 | 10.6 | 10/17/1973 | 4.01 | 10.16 |
| | 6D6C-CA | 1492 | 10.6 | 10/17/1973 | 4.01 | 10.16 |
| | 6D6C-CA | 1490 | 10.6 | 10/17/1973 | 4.01 | 10.16 |
| | 6D6C-CA | 1559 | 10.7 | 10/17/1973 | 4.05 | 10.25 |
| | 6D6C-CA | 1527 | 10.6 | 10/17/1973 | 4.01 | 10.16 |
| | 6D6C-CA | 1538 | 10.6 | 10/17/1973 | 4.01 | 10.16 |
| | 6D6C-CA | 1439 | 10.6 | 10/17/1973 | 4.01 | 10.16 |
| | 6D6C-CA | 1555 | 10.7 | 10/17/1973 | 4.05 | 10.25 |
| | 6D6C-CA | 0591 | 16.7 | 10/17/1973 | 6.32 | 16.00 |
| Blue | 6D6C-CA | 0690 | 16.9 | 10/17/1973 | 6.40 | 16.19 |
| | 6D6C-CA | 0671 | 16.8 | 10/17/1973 | 6.36 | 16.10 |
| | 6D6C-CA | 0673 | 16.5 | 10/17/1973 | 6.25 | 15.81 |
| | 6D6C-CA | 0678 | 16.9 | 10/17/1973 | 6.40 | 16.19 |
| | 6D6C-CA | 0640 | 16.6 | 10/17/1973 | 6.28 | 15.90 |
| | 6D6C-CA | 0669 | 16.9 | 10/17/1973 | 6.40 | 16.19 |
| | 6D6C-CA | 0041 | 34.2 | 10/17/1973 | 12.95 | 32.77 |
| White | 6D6C-CA | 0040 | 33.9 | 10/17/1973 | 12.83 | 32.48 |
| | 6D6C-CA | 4497 | 10.9 | 11/12/1982 | 5.08 | 12.86 |
| Green | 6D6C-CA | 4522 | 10.7 | 11/12/1982 | 4.99 | 12.63 |
| | 6D6C-CA | 4472 | 10.5 | 11/12/1982 | 4.90 | 12.39 |
| | 6D6C-CA | 4470 | 10.2 | 11/12/1982 | 4.76 | 12.04 |
| | 6D6C-CA | 4501 | 10.6 | 11/12/1982 | 4.94 | 12.51 |
| | 6D6C-CA | 4463 | 10.4 | 11/12/1982 | 4.85 | 12.27 |
| | 6D6C-CA | 2883 | 15.4 | 11/12/1982 | 7.18 | 18.17 |
| Silver | 6D6C-CA | 2869 | 15.5 | 11/12/1982 | 7.23 | 18.29 |
| | 6D6C-CA | 2880 | 15.5 | 11/12/1982 | 7.23 | 18.29 |
| | 6D6C-CA | 2857 | 15.4 | 11/12/1982 | 7.18 | 18.17 |
| | 6D6C-CA | 2891 | 15.5 | 11/12/1982 | 7.23 | 18.29 |
| | 6D6C-CA | 2881 | 15.5 | 11/12/1982 | 7.23 | 18.29 |
| | 6D6C-CA | 2835 | 15.5 | 11/12/1982 | 7.23 | 18.29 |

¹ mCi = mgRaEq*(8.25/3.26)

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Department of Radiation Oncology - Dearborn Removal of ¹³⁷Cs sources

| | | | | | | |
|--------|-----------|-------|------|-----------|--------|--------|
| Gold | 6D6C-CA | 05351 | 15.7 | 8/23/1989 | 8.55 | 21.65 |
| | 6D6C-CA | 05339 | 15.8 | 8/23/1989 | 8.61 | 21.79 |
| | 6D6C-CA | 05357 | 15.7 | 8/23/1989 | 8.55 | 21.65 |
| | 6D6C-CA | 05349 | 15.7 | 8/23/1989 | 8.55 | 21.65 |
| | 6D6C-CA | 05348 | 15.7 | 8/23/1989 | 8.55 | 21.65 |
| | 6D6C-CA | 05340 | 15.7 | 8/23/1989 | 8.55 | 21.65 |
| | 6D6C-CA | 05346 | 15.7 | 8/23/1989 | 8.55 | 21.65 |
| 4 CM | 6D6C-LCF | D5-3 | 2.01 | 4/8/1983 | 0.95 | 2.39 |
| | 6D6C-LCF | D5-9 | 2.02 | 4/8/1983 | 0.95 | 2.41 |
| | 6D6C-LCF | D6-3 | 2.01 | 4/8/1983 | 0.95 | 2.39 |
| | 6D6C-LCF | D6-9 | 2.01 | 4/8/1983 | 0.95 | 2.39 |
| 6 CM | 6B6G-LD-F | 23-1 | 3.04 | 4/8/1983 | 1.43 | 3.62 |
| | 6B6G-LD-F | 23-7 | 3.07 | 4/8/1983 | 1.44 | 3.66 |
| | 6B6G-LD-F | 24-2 | 3.03 | 4/8/1983 | 1.43 | 3.61 |
| | 6B6G-LD-F | 24-4 | 3.09 | 4/8/1983 | 1.45 | 3.68 |
| | 6B6G-LD-F | 24-5 | 3.08 | 4/8/1983 | 1.45 | 3.67 |
| | 6B6G-LD-F | 24-6 | 3.07 | 4/8/1983 | 1.44 | 3.66 |
| Totals | | | | | 266.81 | 675.20 |

Attached please find the source certifications.

- The sources were wiped to verify there was no leakage. The wipes were read on the well chamber, Capintec, Inc model Caprac, SN 000659 located in nuclear medicine. The results are as follows:

| Drawer (Color) | Source color Nominal MgRaEq | Location | Reading | | |
|-------------------|--------------------------------|----------|---------|-------|----------------------|
| | | | CPM | DPM | μCi |
| Red | Red | 1-3 | 8 | 9.2 | 3.6×10^{-6} |
| | | 4-6 | 11 | 12.6 | 5×10^{-6} |
| | | 7-9 | -34 | -39 | 0 |
| | | 10-11 | -37 | -42 | 0 |
| | White | 1-2 | 23 | 26 | 1×10^{-5} |
| Orange | Gold | 1-2 | -10 | -10 | 0 |
| | | 3-7 | 41 | 47 | 2.1×10^{-5} |
| Green | Green | 1-2 | 14 | 16 | 7.2×10^{-6} |
| | | 3-6 | -19 | -21.7 | 0 |
| | Silver | 1-4 | 20 | 23 | 1.0×10^{-5} |
| | | 5-7 | -31 | -36 | 0 |
| Blue | Blue | 1-4 | 11 | 13 | 5.9×10^{-6} |
| | | 5-7 | -7 | -8 | 0 |
| Needle Safe | 4 cm | | -7 | -8 | 0 |
| | 6 cm | | -25 | -29 | 0 |

The removable contamination of the sources is below the allowable limits of .005 μCi for the amount of removable contamination for a sealed source.

- The sources were then packaged by the RAM Services, Inc. technician and labeled according to DOT regulations for transportation to the waste facility.

Song, Taehoon

From: Gryglak, Magdalena
Sent: Thursday, January 17, 2019 1:49 PM
To: Song, Taehoon; Sandrik, Lauren; Pavon, Sandy
Cc: Tomczak, Tammy
Subject: FW: RE: NRC License no. 21-04515-01/Removal of Cs-137 seeds
Attachments: Letter January 15 License 21-04515-01.pdf; 1_15_19 Removal of Cesium sources.pdf

Please place the documents in ADAMS;

Beaumont Hospital – Dearborn
610484
030-02051
21-04515-01

Thank you

From: Benedetti, Lisa A [mailto:Lisa.Benedetti@beaumont.org]
Sent: Wednesday, January 16, 2019 8:28 AM
To: Gryglak, Magdalena <Magdalena.Gryglak@nrc.gov>
Subject: [External_Sender] RE: NRC License no. 21-04515-01/Removal of Cs-137 seeds

Ms. Gryglak,

As per our discussion on 1/15/19 I have revised the table with the leak testing information. Attached please find the cover letter and pages 1 & 2 of the report. If I can answer any other questions or provide any additional information please let me know.

Thank you,
Lisa

Lisa A. Benedetti | Director, Clinical Physics
Beaumont Hospital – Royal Oak
3601 West 13 Mile Road | Royal Oak | MI | 48073
P: 248-551-7072 | Pager: 248-995-7827
lisa.benedetti@beaumont.org

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From: Gryglak, Magdalena [mailto:Magdalena.Gryglak@nrc.gov]
Sent: Tuesday, January 15, 2019 12:14 PM
To: Benedetti, Lisa A
Subject: NRC License no. 21-04515-01/Removal of Cs-137 seeds

WARNING: This email originated from **outside** of Beaumont Health.

Do not click on any links or open any attachments unless you recognize the sender and are expecting the message.

Ms. Benedetti,

As we discussed today, please provide the inventory list and a revised table with the leak testing information. Also, please provide a signed and dated letter. You may provide the information via email as a pdf attachment.

Thank you

Magdalena R. Gryglak
U.S. NRC Region III
630-829-9875

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