

FAX COVER SHEET

ST. JOSEPH REGIONAL MEDICAL CENTER
RADIATION ONCOLOGY DEPARTMENT
504 6TH STREET
LEWISTON, ID 83501
Phone: 208-799-5600 Fax: 208-799-5755

TODAY'S DATE: 4/27/11

NUMBER OF PAGES (INCLUDING COVER SHEET): 6

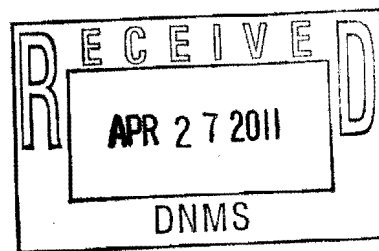
FROM: Doug Heidorn

TO: NRC

ATTENTION: Jacqueline Cook

FAX #: (817) 860-8263

TELEPHONE #: _____



COMMENTS:

CONFIDENTIALITY NOTICE

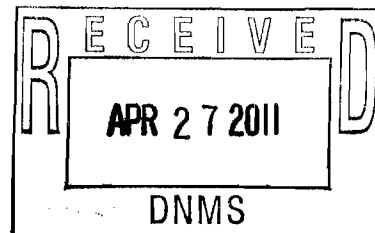
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April 27, 2011

Nuclear Materials Licensing Section
U.S. Nuclear Regulatory Commission, Region IV
ATTN: Jacqueline Cook
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76001-8064

Materials License #: 11-27371-01



Dear Ms. Cook,

Per our conversation on April 26, 2011, we would like to purchase 2 EZIP Cesium-137 brachytherapy sources to add to our in-store inventory. The activities we are considering are in the activity range 25 – 30 mg Ra-eq (62.5 – 75 mCi). We currently have 450 mCi of Cs-137 in-store, so by adding two 75 mCi sources we will still be under our 2 Ci limit. (We do decay our unused I-125 seeds for prostate implants which I estimate to have a total activity of less than 1 Ci).

As we discussed, we will need to amend our license to include the EZIP Cs-137 tube. I have included a copy of our license and an information sheet for the EZIP source. If you need any further information, please don't hesitate to call me at (509)758-8201.

Best regards,

A handwritten signature in cursive script that reads "Douglas Heidorn".

Douglas Heidorn, Medical Physicist, RSO

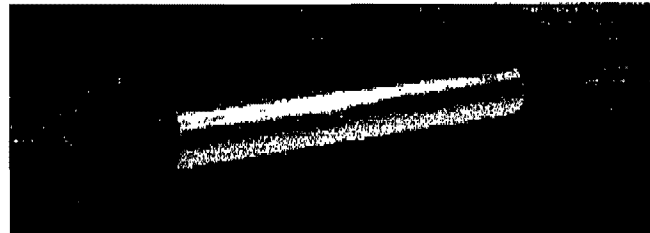
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EZIP CESIUM-137 BRACHYTHERAPY TUBE SOURCES

The EZIP Cesium-137 brachytherapy tube sources contain a cesium labeled ceramic rod as the active element surrounded by two stainless steel encapsulations, each of which is of welded construction. The tube sources are available as standard size tubes, 20 mm long x 3.05 mm diameter, the inner ceramic active element is 14.5 mm long x 1.52 mm in diameter.

Each source is engraved with the manufacturer name, nuclide (Cs-137) nominal activity in mCi, and serial number.

There is a colored ring visible from the side and one end to facilitate easy source strength identification.
Also known as Caesium-137 or Cs-137 or ¹³⁷Cs



Item #	mm Ra-226 Equivalent	Color Code	Apparent Nominal Cesium-137 Activity (mCi)	Air Kerma Strength Nominal (μGy m ² /h)	Air Kerma Manufacturing Range (μGy m ² /h)	Air Kerma Manufacturing Tolerance (%)
067-6510	10	Red	25.0 mCi	72.9	70.1 - 79.5	+10.0/-3.0
067-6515	15	Black	37.5 mCi	108.4	105.1 - 119.2	+10.0/-3.0
067-6520	20	White	50.0 mCi	144.5	140.2 - 159.0	+10.0/-3.0
067-6525	25	Blue	62.5 mCi	180.7	176.2 - 197.9	+9.5/-2.5
067-6530	30	Orange	75.0 mCi	216.8	212.5 - 235.4	+8.6/-2.0
067-6535	35	Green	87.5 mCi	252.9	252.9 - 289.8	+8.7/-0.0
067-6540	40	Gray	100.0 mCi	289.1	289.1 - 308.2	+6.6/-0.0

Note: EZIP assays of Cs-137 sources are generally ~3% lower than the value certified by Cs-137. Adjust Air Kerma tolerances an additional +3% to allow for this.

Ordering information:

Radiation Products Design, Inc.
5218 Barthel Industrial Drive
Albertville, MN 55301
800-497-2071 Toll Free
763-497-2071 Outside US
763-497-2295 Fax



sales@rpdinc.com E-Mail An End User Statement needs to be completed and a copy of your Radioactive Materials License needs to be obtained

Assumptions:

Cesium-137 Energy: 0.66 MeV
Gamma Factor for Cs-137 = 3.3
Gamma Factor (filtered) for Ra-226 = 8.25
Air Kerma Strength = 7.227 μGy m²/h / mgRaEq¹⁰
Tolerance = 5%

Radiation Protection

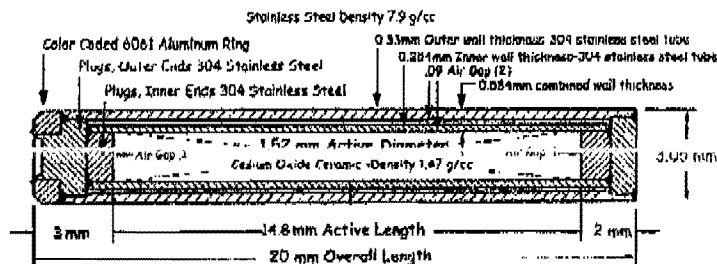
The HVL in lead for Cesium-137 is 6.5 mm.
The TVL in lead for Cesium-137 is 21 mm.

Physical Characteristics

Cesium-137 has a half-life of 30.0 years and decays with the emission of a monoenergetic gamma ray of 0.66 MeV.

To correct for physical decay of Cesium-137, the decay factors at selected years after the assay date are shown in the table below.

Years	Decay Factor	Years	Decay Factor
0.0	1.00	6.5	.89
0.5	.99	6.0	.87
1.0	.98	6.5	.86
1.5	.97	7.0	.85
2.0	.95	7.5	.84
2.5	.94	8.0	.83
3.0	.93	8.5	.82
3.5	.92	9.0	.81
4.0	.91	9.5	.80
4.5	.90	10.0	.79
5.0	.89		



How Supplied

EZIP Cesium-137 tube sources are packaged in a lead pig which is labeled to indicate the isotope, amount of activity, and calibration date. A calibration certificate and instructions for safe handling and use are also supplied.

Leak Testing

EZIP Cesium-137 tube sources are leak tested prior to shipment and the results provided with shipping certification papers that accompany each shipment.

Licensing

The U.S. Nuclear Regulatory Commission has approved this sealed source (SSDR # CA0406S125S) for distribution to persons licensed to use byproduct material identified in §35.400 of 10 CFR Part 35, to persons who hold an equivalent license issued by an Agreement State, and outside the United States, to person authorized by the appropriate authority.

Federal law restricts this device to sale by or on the order of a physician. Please observe the Department of Transportation (DOT) regulations for hazardous material contained in Title 49, code of Federal Regulations (HMR,49CFR), transport and use of radioactive material.

Isodose curves available upon request.

RPD has a full line of Brachytherapy Products, Radiation Safes, Shielding, L-Blocks, and Applicators.
Visit our website www.rpdinc.com or contact us for more information.

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U.S. NUCLEAR REGULATORY COMMISSION

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Amendment No. 08

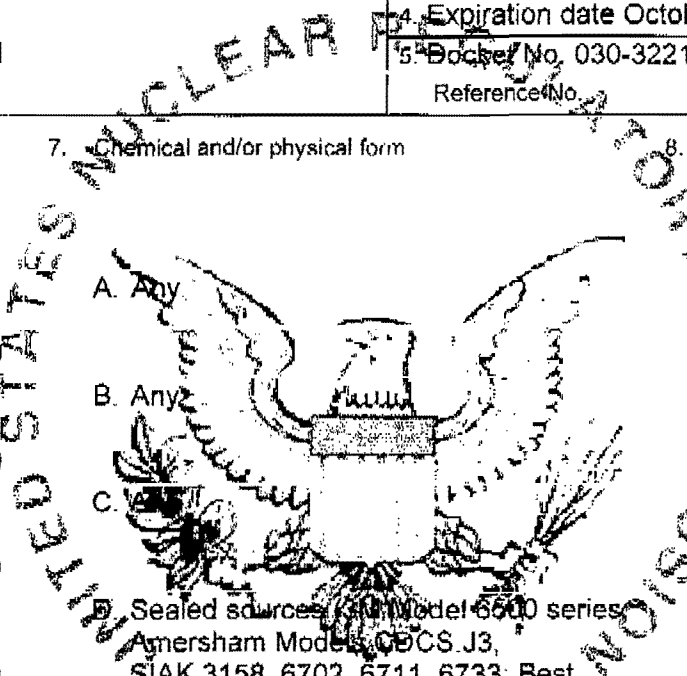
CORRECTED COPY

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below, to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below

<p>Licensee</p> <p>1. St. Joseph Regional Medical Center</p> <p>2. 415 Sixth Street Lewiston, Idaho 83501</p>	<p>In accordance with letter dated November 29, 2006</p> <p>3. License number 11-27371-01 is amended in its entirety to read as follows:</p> <p>4. Expiration date October 31, 2012</p> <p>5. Docket No. 030-32211</p> <p>Reference No.</p>
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<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Any byproduct material permitted by 10 CFR 35.100</p> <p>B. Any byproduct material permitted by 10 CFR 35.200</p> <p>C. Any byproduct material permitted by 10 CFR 35.300</p> <p>D. Any byproduct material permitted by 10 CFR 35.400</p> <p>E. Iodine-131 permitted by 10 CFR 35.300</p> <p>F. Depleted Uranium</p>	<p>7. Chemical and/or physical form</p> <p>A. Any</p> <p>B. Any</p> <p>C. Sealed sources (Model 6600 series, Amersham Model GBCS J3, SIAK 3158, 6702, 6711, 6733; Best Industries Models 81-01, 2300; BEBIG Model 125.506, IsoStar Texas Model IS-125; North American Scientific Models MED-3631 & 3633; Syncor/Cardinal health Model BT-125-1; International Brachytherapy Models 125IL & 103L; Theragencis Model 200)</p> <p>E. Any</p> <p>F. Metal</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. As needed</p> <p>B. As needed</p> <p>C. 300 millicuries</p> <p>D. 2 curies total</p> <p>E. 300 millicuries</p> <p>F. 999 kilograms</p>
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9. Authorized use:

A. Any uptake, dilution and excretion study permitted by 10 CFR 35.100.

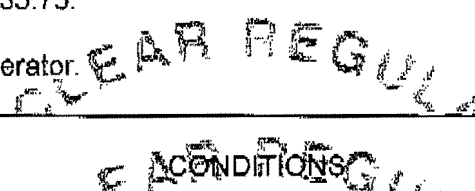
**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number
11-27371-01

Docket or Reference Number
030-32211

Amendment No. 08
CORRECTED COPY

- B. Any imaging and localization study permitted by 10 CFR 35.200.
- C. Any use permitted by 10 CFR 35.300.
- D. Any manual brachytherapy procedure permitted by 10 CFR 35.400 and, for cesium-137, calibration of licensee's survey meters and personnel dosimeters.
- E. Any iodine-131 procedure permitted by 10 CFR 35.300 for which the patient can be released under the provisions of 10 CFR 35.75.
- F. Shielding in a linear accelerator.



- 10. Licensed material may be used or stored only at the licensee's facilities located at St. Joseph's Regional Medical Center, 415 Sixth Street, Lewiston, Idaho.
- 11. The Radiation Safety Officer for this license is Douglas Heirdon, Ph.D.
- 12. Licensed material is only authorized for use by, or under the supervision of:

- A. Individuals permitted to work as an authorized user, in accordance with 10 CFR 35.13 and 35.14.
- B. The following individuals are authorized users for the material and medical uses indicated:

<u>Authorized Users</u>	<u>Material and Use</u>
Kent Anderson, M.D.	35.300; 35.400; Depleted Uranium
Michael E. Bell, M.D.	35.300; 35.400; Depleted Uranium
Louis Blas, M.D.	35.100; 35.200, oral administration of sodium iodide in quantities less than or equal to 33 millicuries; Depleted Uranium
Neal Clinger, M.D.	35.100; 35.200; 35.300; Depleted Uranium
Mark W. Peterson, M.D.	35.100; 35.200; Depleted Uranium
Paul Sanchirico, M.D.	35.100; 35.200, oral administration of sodium iodide in quantities less than or equal to 33 millicuries; Depleted Uranium
Michael Whisenant, M.D.	35.100; 35.200
Allan Wray, M.D.	35.100; 35.200, 35.300, Depleted Uranium

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**MATERIALS LICENSE
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C. The following individuals are authorized users for non-medical uses indicated.

Authorized Users

Material and Use

Douglas Heidorn, Ph.D.

Cesium-137 for calibration of instruments

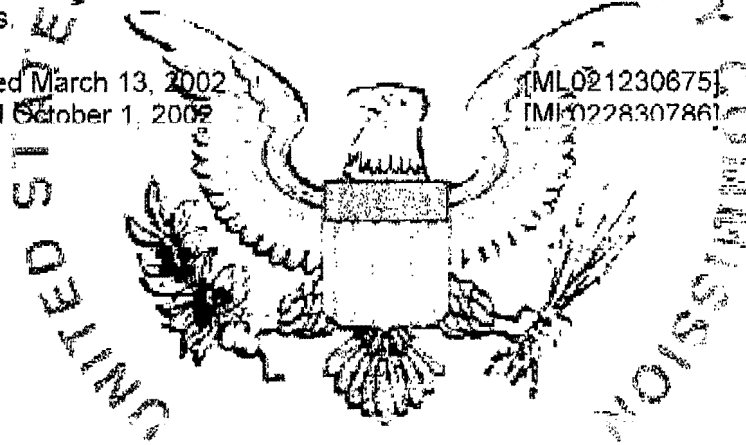
13. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing financial assurance for decommissioning.

14. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

15. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. This license condition applies only to those procedures that are required to be submitted in accordance with the regulations. Additionally, this license condition does not limit the licensee's ability to make changes to the radiation protection program as provided for in 10 CFR 35.26. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

- A. Application dated March 13, 2002
- B. Facsimile dated October 1, 2002

IML021230675
IMI0228307861



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date December 13, 2010

By Lizette Roldan

Lizette Roldan-Otero, Ph.D., Health Physicist
Nuclear Materials Safety Branch B
Region IV
Arlington, Texas 76011-4125

MAY - 2 2011

DATE

This is to acknowledge the receipt of your letter/application dated 4/27/11, and to inform you that the initial processing, which includes an administrative review, has been performed.

There were no administrative omissions. Your application will be assigned to a technical reviewer. Please note that the technical review may identify other omissions or require additional information.

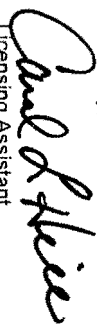
Please provide to this office within 30 days of your receipt of this card:

The action you requested is normally processed within 90 days.

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 575041.
When calling to inquire about this action, please refer to this mail control number.
You may call me at (817) 860-8103.

Sincerely,


Licensing Assistant

BETWEEN:

Accounts Receivable/Payable
and
Regional Licensing Branches

[FOR ARPB USE]
INFORMATION FROM LTS

Program Code: 02120
Status Code: Pending Amendment
Fee Category: 7C
Exp. Date:
Fee Comments:
Decom Fin Assur Req'd: N

License Fee Worksheet - License Fee Transmittal

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: ST. JOSEPH REGIONAL MEDICAL CENTER
Received Date: 04/27/2011
Docket Number: 3032211
Mail Control Number: 575041
License Number: 11-27371-01
Action Type: Amendment

2. FEE ATTACHED

Amount: _____

Check No.: _____

3. COMMENTS

Signed: _____

Carol P. Hill

Date: _____

4/29/11

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered / /)

1. Fee Category and Amount: _____

2. Correct Fee Paid. Application may be processed for:

Amendment: _____

Renewal: _____

License: _____

3. OTHER _____

Signed: _____

Date: _____