

SPECTRUM HEALTH

Spectrum Health Butterworth Hospital
100 Michigan Street NE
Grand Rapids, MI 49503-2560
616.391.1774 fax 616.391.2745
spectrum-health.org

November 22, 2010

United States Nuclear Regulatory Commission
Region III, Materials Licensing Section
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

License Number: 21-00243-06 (Spectrum Health Hospitals)

Dear Sir or Madam:

I am hereby providing notification that the following individual was allowed to act in the capacity of an Authorized User (AU) for proctoring a SirSpheres microsphere brachytherapy case at our facility on October 28, 2010:

Samuel G. Putnam, M.D.

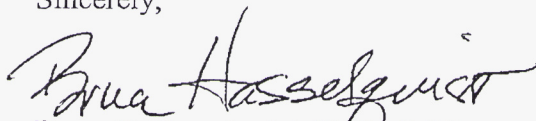
I have attached a copy of Pennsylvania license number PA-0054 showing Dr. Putnam as an AU for ⁹⁰Y microspheres.

Please note that we previously notified the NRC in a letter dated September 9, 2010 that this same individual proctored a case on June 17, 2010.

If you have any questions regarding this notification, please contact me at 616-391-2498 or via email at bruce.hasselquist@spectrum-health.org.

Thank you for your assistance.

Sincerely,


Bruce E. Hasselquist, Ph.D., RSO
Chief Medical Physicist, Radiology

cc: Larry Genzink, Director of Radiology
Thomas Getz, MD, RSC Chairman



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Pennsylvania Department of Environmental Protection

Rachel Carson State Office Building
P.O. Box 8469
Harrisburg, PA 17105-8469
August 14, 2008

Bureau of Radiation Protection

717-787-3720
Fax: 717-783-8965

John E. Devenney, M.D.
Chairman, Department of Radiology & Radiation Safety Officer
Montgomery Hospital Medical Center
1301 Powell Street
Norristown, PA 19404

Re: Pennsylvania Radioactive Material License No. PA-0054

Dear Dr. Devenney:

We are enclosing Amendment No. 24 to the referred license in response to correspondence dated July 7, 2008 and in accordance with Agreement State proceedings.

This amendment adds Yttrium-90 SIR Spheres to Dr. Putnam's authorization and also adds Dr. Sistrun to the list of Authorized Users. This amendment also effectively merges your NRC License # 37-12110-02 into Pennsylvania License # PA-0054.

The license has been formatted to reflect changes to the regulations published July 17, 2004 in the Pennsylvania Bulletin and also changes to 10 CFR 35 effective April 29, 2005. Please note that the Commonwealth of Pennsylvania has "incorporated by reference" the NRC radiation protection regulations contained in 10 CFR Parts 19-150.

Please forward the enclosed material appropriately.

If there are any questions regarding this letter I can be contacted at (717) 783-5919.

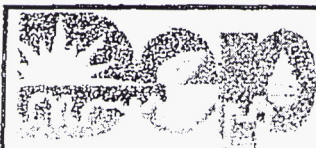
Thank you for your cooperation.

Sincerely,

Ronald J. Hamm
Chief
Radioactive Material Licensing

Enclosure: PA-0054 Amendment 24

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Official Use Only – Security Related Information

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF RADIATION PROTECTION

Page 1 of 4 Pages

License No. PA - 0054

RADIOACTIVE MATERIALS LICENSE

Amendment No. 24

Pursuant to the Radiation Protection Act, the Act of July 10, 1984 (No. 147, P.L. 688)(35 P.S. §§ 7110.101 – 7110.703) and Title 25. Rules and Regulations, Article V. Radiological Health of the Pennsylvania Department of Environmental Protection, and in reliance on statements and representations heretofore Licensee to receive, acquire, possess, transfer, and use radioactive material listed below for the purposes and at the places designated below. This license shall be deemed subject to all applicable rules, regulations, or orders of the Pennsylvania Department of Environmental Protection now or hereafter in effect and to any conditions specified below.

Licensee	In response to correspondence dated July 7, 2008 and in accordance with Agreement State proceedings
1. Montgomery Hospital Medical Center	3. License No. PA -- 0054 is amended in its entirety to read as follows:
2. 1301 Powell Street Norristown, PA 19404-0992	4. Expiration Date: September 30, 2014
	5. Reference No: 85809

6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license
A. Any byproduct material permitted by 10 CFR 35.100	A. Any	A. As needed
B. Any byproduct material permitted by 10 CFR 35.200	B. Any	B. As needed
C. Any byproduct material permitted by 10 CFR 35.300	C. Any	C. 400 millicuries
D. Any byproduct material permitted by 10 CFR 35.400	D. Sealed sources (Best Medical Int. Models 2301 and 81-01; North American Scientific Model 3631; Mills Biopharm. Model I-125SL)	D. 2000 millicuries
E. Yttrium 90	E. Resin microspheres (AEA Technology QSA, Inc. Model SIR-Spheres)	E. 500 millicuries
F. Iridium-192 permitted by 10 CFR 35.600	F. Sealed sources (Nucletron Model 096.001[manufactured by Mallinckrodt Medical BV or AEA Technology, Inc.] or Alpha Omega Services, Inc. Model CSNOO10-192)	F. 2 sources, 1 source not to exceed 12 curies and 1 source not to exceed 7 curies

9. Authorized use:

- A. Any approved uptake, dilution and excretion procedure permitted by 10 CFR 35.100
- B. Any approved imaging and localization procedure permitted by 10 CFR 35.200

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF RADIATION PROTECTION

RADIOACTIVE MATERIALS LICENSE

Page 2 of 4 Pages

License No. PA - 0054

Amendment No. 24

- C. Any diagnostic study or therapy procedure permitted by 10 CFR 35.300.
- D. Any manual brachytherapy procedure permitted by 10 CFR 35.400.
- E. For medical use in the Sirtex SIR –Spheres delivery system.
- F. One source for medical use permitted by 10 CFR 35.600 in a Nucletron MicroSelection Classic remote afterloader unit. The source activity may not exceed 10 curies at the time of medical use. One source in its shipping container as necessary for replacement of the source in the remote afterloader unit.

CONDITIONS

- 10. Licensed material may be used only at the licensee's facilities located at 1301 Powell Street, Norristown, PA 19404.
- 11. The Radiation Safety Officer for this license is: John E. Devenney, M.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 materials and uses indicated:

<u>Authorized Users</u>	<u>Material and Use</u>
John E, Devenney, M.D.	35.100; 35.200; 35.300
Estella Graeffe, M.D.	35.400; Yttrium 90 SIR-Spheres; Iridium-192 for uses in a High Dose Rate Afterloader Unit
Linda Lee Kurtz, D.O.	35.100; 35.200
Stephen Leschak, M.D.	35.100; 35.200
Delaine M. Mandell, M.D.	35.100; 35.200
Samuel G. Putnam, M.D.	35.100; 35.200; Yttrium 90 SIR-Spheres
Nikki Sistrun, M.D.	35.100; 35.200; 35.300
Laurence Spitzer, M.D.	35.100; 35.200
Richard J. Torpie, M.D.	35.400; Iridium-192 for uses in a High Dose Rate Afterloader Unit

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF RADIATION PROTECTION**RADIOACTIVE MATERIALS LICENSE**

Page 3 of 4 Pages

License No. PA - 0054

Amendment No. 24

C. The following are authorized medical physicists as indicated:

<u>Authorized Medical Physicists</u>	<u>Material and Use</u>
Shy-ya Lisa Grimm, M.S.	Iridium-192 for uses in a High Dose Rate Afterloader Unit for calibrations, spot-checks, and training
Shih-min Lo, Ph.D.	Iridium-192 for uses in a High Dose Rate Afterloader Unit for calibrations, spot-checks, and training
Carmin A. Pierno, M.S.	Iridium-192 for uses in a High Dose Rate Afterloader Unit for calibrations, spot-checks, and training

13. The licensee shall conduct an physical inventory every 6 months to account for all sealed sources and devices containing licensed material received and possessed pursuant to 10 CFR 35.65 incorporated by reference.
14. 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 and incorporated by reference in 10 CFR 30.35(d) for establishing financial assurance for decommissioning.
15. The licensee may transport licensed material, or deliver licensed material to a carrier for transport, in accordance 25 Pa Code Chapter 230, "Packaging and Transportation of Radioactive Material" and the provisions of 10 CFR Part 71 incorporated by reference.
16. Notwithstanding the requirements set forth in this license, the licensee shall comply with the regulations set forth in Title 25 of the Pennsylvania Code, Article V "Radiological Health" and the U.S. Nuclear Regulatory Commission, Title 10 Code of Federal Regulations Parts 19-150 incorporated by reference.

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF RADIATION PROTECTION

RADIOACTIVE MATERIALS LICENSE

Page 4 of 4 Pages

License No. PA - 0054

Amendment No. 24

17. 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 Department of Environmental Protection'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 June 24, 2004 (NRC)
- B. Letter dated October 26, 2004 (NRC)
- C. Letter dated November 2, 2004 (NRC)
- D. Letter dated December 6, 2004 (NRC)
- E. Letter dated August 19, 2005 (NRC)
- F. Renewal application dated September 12, 2007 (DEP)

For the Pennsylvania Department of Environmental Protection

Ronald J. Hamm
Bureau of Radiation Protection
P. O. Box 8469
Harrisburg, PA 17105-8469

Date: August 14, 2008

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SPECTRUM HEALTH

Fax

Spectrum Health Hospitals
Department of Radiology, MC 046
100 Michigan NE
Grand Rapids, MI 49503

Date:	Time:	No. of pages (including cover):
11/22/2010	11:20	7
To:	Fax:	Phone:
NRC Licensing	630.515.1078	630.829.9887
From:	Fax:	Phone:
B. Hasselquist	616.391.2498 ²⁶⁶⁵	616.391.2498

Please call if you have any problems with this transmission.
If you have received this fax in error, please notify us immediately.

Message:

Notification attached.

Confidential Information

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