



2620 North Westwood Boulevard  
Poplar Bluff, Missouri 63901  
573.785.7721

March 29, 2010

Materials Licensing Branch  
United States Nuclear Regulatory Commission  
Region III  
2442 Warrenville Road, Suite 210  
Lisle, Illinois 60532-4362

**RE:** Poplar Bluff Regional Medical Center, License No.: 24-16652-01

Please amend the above radioactive materials license as follows:

1. Add the following Authorized Users, for authorized use of any imaging and localization study permitted by 10 CFR 35.200.
  - a. Douglas Alfred Davies, M.D., Dr Davies is an authorized user on NRC license number 45-24852-01, Harrisonburg Medical Associates, Harrisonburg, VA.
  - b. Girish Bhatt, MD, Dr. Bhatt was an authorized user on NRC license number 24-16652-01, Poplar Bluff Regional Medical Center, Poplar Bluff, MO.
  
2. Add the following Authorized Users, for authorized use of any imaging and localization study permitted by 10 CFR 35.100, use of unsealed byproduct material for imaging and localization studies permitted by 35.200, and use of unsealed byproduct material for which a written directive is required permitted by 35.300.
  - a. Rajinder Moham Gulati, M.D., Dr. Gulati is an authorized user on Illinois Emergency Management Agency, Division of Nuclear Safety Radioactive Material license number IL-01054-01, Memorial Hospital of Carbondale, Carbondale, IL
  - b. Tom Buford Brumitt, D.O., Dr. Brumitt was an authorized user on NRC license number 24-16652-01, Poplar Bluff Regional Medical Center, Poplar Bluff, MO

If you have any questions concerning this matter contact me at (573) 686-5953

Sincerely,

A handwritten signature in cursive script that reads "Lavah Lowe".

Lavah Lowe, MBA  
Chief Operating Officer

RECEIVED APR 06 2010



2620 North Westwood Boulevard  
Poplar Bluff, Missouri 63901  
573.785.7721

---

Enclosed: Poplar Bluff Regional Medical Center NRC License  
Memorial Hospital of Carbondale Radioactive Material License  
Harrisonburg Medical Associates NRC License

STATE OF ILLINOIS  
ILLINOIS EMERGENCY MANAGEMENT AGENCY  
DIVISION OF NUCLEAR SAFETY

**RADIOACTIVE MATERIAL LICENSE**

1035 OUTER PARK DRIVE  
SPRINGFIELD, ILLINOIS 62704

Pursuant to the Illinois Radiation Protection Act and the rules and regulations in 32 Illinois Administrative Code promulgated thereunder, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess and transfer radioactive material(s) listed herein; and to use such radioactive material(s) for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations and orders of the Agency now or hereafter in effect and to any conditions specified in the license.

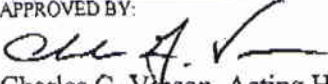
<u>LICENSEE</u>	<u>LICENSE NUMBER</u>	<u>EXPIRATION DATE</u>
Memorial Hospital of Carbondale 405 West Jackson Street Carbondale, IL 62901	IL-01054-01	August 31, 2012
	<u>AMENDMENT NUMBER</u>	
	19	

Attention: George Maroney  
Administrator

In accordance with application dated July 17, 2007, License Number IL-01054-01 is renewed in its entirety.  
Previous amendments are void.

ITEM	RADIONUCLIDE	CHEMICAL and/or PHYSICAL FORM	MAXIMUM ACTIVITY* PER SOURCE	MAXIMUM POSSESSION LIMIT
A.	Any in 32 Ill. Adm. Code 335.2040	Any calibration or reference source identified in 32 Ill. Adm. Code 335.2040.		As needed
B.	Any in 32 Ill. Adm. Code 335.3010	Any radiopharmaceutical identified in 32 Ill. Adm. Code 335.3010.		As needed
C.	Any in 32 Ill. Adm. Code 335.4010	Any radiopharmaceutical identified in 32 Ill. Adm. Code 335.4010.		As needed
D.	Any in 32 Ill. Adm. Code 335.5010	Any radiopharmaceutical identified in 32 Ill. Adm. Code 335.5010.		As needed
E.	Any in 32 Ill. Adm. Code 335.7010	Any sealed source identified in 32 Ill. Adm. Code 335.7010, excluding remote afterloaders.	1 Ci	As needed

\*  $\mu$ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram;  $\mu$ g-microgram; kg-kilogram

APPROVED BY:	DATE	PAGE of PAGES
 Charles G. Vinson, Acting Head of Radioactive Materials	August 3, 2007	1 5

STATE OF ILLINOIS  
IEMA DIVISION OF NUCLEAR SAFETY  
RADIOACTIVE MATERIAL LICENSE

LICENSEE	LICENSE NUMBER	AMENDMENT NUMBER	EXPIRATION DATE
Memorial Hospital of Carbondale	IL-01054-01	19	August 31, 2012

AUTHORIZED USE:

- A. For use as calibration and reference sources.
- B. Any medical use identified in 32 Ill. Adm. Code 335.3010.
- C. Any medical use identified in 32 Ill. Adm. Code 335.4010.
- D. Any medical use identified in 32 Ill. Adm. Code 335.5010.
- E. Any medical use identified in 32 Ill. Adm. Code 335.7010.

CONDITIONS

1. Radioactive material shall be used at the licensee's facilities located at 405 West Jackson Street, Carbondale, Illinois in accordance with statements, representations and procedures listed in other conditions of this license.
2. Radioactive material is authorized for use by, or under the supervision of, the following individual(s) for the materials and uses indicated:

Mark Gates, M.D.

Rajinder Moham Gulati, M.D.

George Kao, M.D.

George Pjura, M.D.

B. and C.

B., C. and D.

D. and E.

B. and C.

In addition, radioactive material listed in License Schedule Item A. is authorized for use by or under the supervision of any one of the individuals listed in this condition.

3. The Radiation Safety Officer for this license is Michael Bishop.
4. The licensee shall decontaminate or restrict access to each area described in 32 Ill. Adm. Code 335.2080(d) for which removable radioactive contamination is found to exceed 2000 dpm/100 cm<sup>2</sup>. This monitoring must be performed to ensure that decontamination was effective or decay reduced the levels adequately. Records of monitoring must contain the information specified in 32 Ill. Adm. Code 335.2080(f).

\*  $\mu$ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram;  $\mu$ g-microgram; kg-kilogram

APPROVED BY:

DATE

PAGE of PAGES

Charles G. Vinson, Acting Head of Radioactive Materials

August 3, 2007

2 5

IL 473-0059

No. 2168 P. 2

JAN 19 2010 1:21PM MHC IMAGING SCHEDE

STATE OF ILLINOIS  
IEMA DIVISION OF NUCLEAR SAFETY  
RADIOACTIVE MATERIAL LICENSE

LICENSEE	LICENSE NUMBER	AMENDMENT NUMBER	EXPIRATION DATE
Memorial Hospital of Carbondale	IL-01054-01	19	August 31, 2012

5.
  - A. Each sealed source possessed under this license shall be tested for leakage and/or contamination as specified in 32 Ill. Adm. Code 340.410. Tests for leakage and/or contamination shall be performed by persons specifically licensed to provide such services.
  - B. This license does not authorize analysis of leak test samples. However, the licensee is authorized to collect leak test samples for analysis by persons specifically authorized by the Agency, an Agreement State, a Licensing State, or the U.S. Nuclear Regulatory Commission to perform such services.
6. Except as otherwise specifically provided by this license, radioactive material to be administered to humans shall be procured in prepackaged, pre-calibrated form from a supplier who manufactures, labels, packages, or repackages the product in accordance with all applicable state and federal laws and rules related to appropriate pharmaceutical controls for assay, identity, quality, purity, sterility and nonpyrogenicity.
7. Investigational New Drugs (IND) labeled with radioactive material shall not be used in human beings until the individual user has filed with the Federal Food and Drug Administration the required documentation in accordance with 21 CFR 312.1, and the exemption has not been terminated.
8. The licensee is authorized to receive, possess and transfer depleted uranium in amounts not greater than 999 kg for use as shielding material.
9. Notwithstanding the distribution requirements of 32 Ill. Adm. Code 335.1090, the licensee may receive, possess, and use naturally-occurring or accelerator-produced radioactive material (NARM) specifically authorized by this license and distributed by a supplier located in a non-Licensing State.
10. Sealed sources containing radioactive material shall not be opened.
11. The licensee may use the Calcorp, Inc. "Calicheck" device or the Atomic Products Corp. "Lineator" device for linearity tests of their dose calibrator(s). Such tests shall be performed in strict accordance with the procedures contained in the device manufacturer's instruction manual. A copy of the appropriate device manufacturer's instruction manual shall be maintained at the licensee's facility if one of these devices is used.
12. The licensee is authorized to store waste containing, or comprised of, radioactive material with a physical half-life of less than 90 days for "decay-in-storage" before disposal with the following provisions:
  - A. Radioactive waste to be disposed of shall be held for decay a minimum of ten half-lives.

\*  $\mu$ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram;  $\mu$ g-microgram; kg-kilogram

APPROVED BY:

DATE

PAGE of PAGES

Charles G. Vinson, Acting Head of Radioactive Materials

August 3, 2007

3 5

IL 473-0059

No. 2168 P. 3

JAN 19 2010 1:21 PM MHC IMAGING SCHEID

STATE OF ILLINOIS  
IEMA DIVISION OF NUCLEAR SAFETY  
RADIOACTIVE MATERIAL LICENSE

LICENSEE	LICENSE NUMBER	AMENDMENT NUMBER	EXPIRATION DATE
Memorial Hospital of Carbondale	IL-01054-01	19	August 31, 2012

(Condition 12. continued)

- B. Pursuant to 32 Ill. Adm. Code 340.510(a) and (b), radiation surveys shall be performed prior to disposal of the waste to ensure that the waste's radioactivity cannot be distinguished from background radiation levels. The package/container surface shall be surveyed with an appropriate radiation detection survey instrument set on its most sensitive scale, with no interposed shielding between the detector and the waste, in a low background radiation environment. Records of monitoring shall be maintained to include: date of disposal; date placed in storage; manufacturer, model and serial number of the survey instrument used; background radiation levels; measured radiation levels; and identity of the individual performing the monitoring. All radiation labels shall be removed or obliterated.
- C. Generator columns shall be segregated from their shields and other waste and monitored separately to ensure decay to background levels prior to disposal.
- D. Nothing in this condition relieves the licensee from complying with other applicable federal, state, and local regulations governing any other toxic or hazardous property of these materials.
13. Servicing and maintenance of bone densitometer(s) involving the source holder and/or shutter mechanism(s) shall be performed by the manufacturer or by other persons specifically authorized by the Agency, an Agreement State, or the U.S Nuclear Regulatory Commission to perform such services.
14. In addition to the possession limits stated in License Schedule Item F., the licensee shall further restrict the possession of licensed material to quantities not to exceed the applicable limits referenced in Appendix A to 32 Ill. Adm. Code 326. For combinations of nuclides, the licensee must maintain a record for Agency inspection demonstrating for all possessed nuclides that the sum of the ratios of the quantity authorized and the limit established in Appendix A is not greater than one.
15. A. Radioactive material listed in License Schedule Item H. shall be used for performing calibration and quality assurance checks of IVB devices in accordance with letters with attachments dated November 1, 2002. These procedures shall be performed by or under the supervision and in the physical presence of Kim Working, M.S., or by persons specifically authorized by the Agency, an Agreement State, a Licensing State or the U.S. NRC to perform such services.
- B. The licensee must submit to the Agency records of didactic and clinical training upon completion of five cases under the manufacturer's supervision.

\*  $\mu$ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram;  $\mu$ g-microgram; kg-kilogram

APPROVED BY:

DATE

PAGE of PAGES

Charles G. Vinson, Acting Head of Radioactive Materials

August 3, 2007

4 5

IL 473-0059

No. 2168 P. 4

Jan. 19. 2010 1:22PM MHC IMAGING SCHEID



STATE OF ILLINOIS  
IEMA DIVISION OF NUCLEAR SAFETY  
RADIOACTIVE MATERIAL LICENSE

LICENSEE	LICENSE NUMBER	AMENDMENT NUMBER	EXPIRATION DATE
Memorial Hospital of Carbondale	IL-01054-01	19	August 31, 2012

16. Except as specifically provided otherwise by the license, the licensee shall possess and use radioactive material described in all schedules of this license in accordance with statements, representations and procedures contained in, referenced in, or enclosed with the documents listed below. The regulations contained in 32 Ill. Adm. Code: Chapter II, Subchapters b and d shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations. The most recent statements, representations and procedures listed below shall govern if they conflict with previously submitted documents.
- A. Applications dated July 24, 1997, May 2, 2002 and July 17, 2007.
  - B. Letter dated December 19, 2000.
  - C. Letters, with attachments, dated November 1, 2002 and January 27, 2003 and October 26, 2005.
  - D. Telefacsimile dated February 3, 2003.

CGV:TLH:kjs

\*  $\mu$ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram;  $\mu$ g-microgram; kg-kilogram

APPROVED BY:

DATE

PAGE of PAGES

Charles G. Vinson, Acting Head of Radioactive Materials

August 3, 2007

5 5

IL 473-0059

No. 2168 P. 5

Jan. 19. 2010 1:22PM MHC IMAGING SCHEDE

NRC FORM 374

U.S. NUCLEAR REGULATORY COMMISSION

PAGE 1 OF 3 PAGES  
Amendment No. 29

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.

Licensee

1. Poplar Bluff Regional Medical Center  
d/b/a Three Rivers Health Care, North
2. 2620 N. Westwood Boulevard  
Poplar Bluff, MO 63901

In accordance with the letter received March 7, 2005 and facsimile dated April 15, 2005,

3. License number 24-16652-01 is amended in its entirety to read as follows:

4. Expiration date October 31, 2011

5. Docket No. 030-11417

Reference No.

6. Byproduct, source, and/or special nuclear material

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
- B. Any byproduct material permitted by 10 CFR 35.200 (excluding xenon-133)
- C. Any byproduct material permitted by 10 CFR 35.300
- D. Any byproduct material permitted by 10 CFR 35.400
- E. Any byproduct material permitted by 10 CFR 35.500



Any brachytherapy source permitted in 10 CFR 35.400

Sealed sources permitted in 10 CFR 35.500

A. As needed

B. As needed

C. 1 curie

D. 2 curies

E. 25 millicuries

9. Authorized Use:

- A. Any uptake, dilution and excretion study permitted by 10 CFR 35.100.
- B. Any imaging and localization study permitted by 10 CFR 35.200.
- C. Any therapy procedure permitted by 10 CFR 35.300.
- D. Any manual brachytherapy procedure permitted by 10 CFR 35.400.
- E. For storage only.



NRC FORM 374A

U.S. NUCLEAR REGULATORY COMMISSION

PAGE 2 of 3 PAGES

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number  
24-16652-01

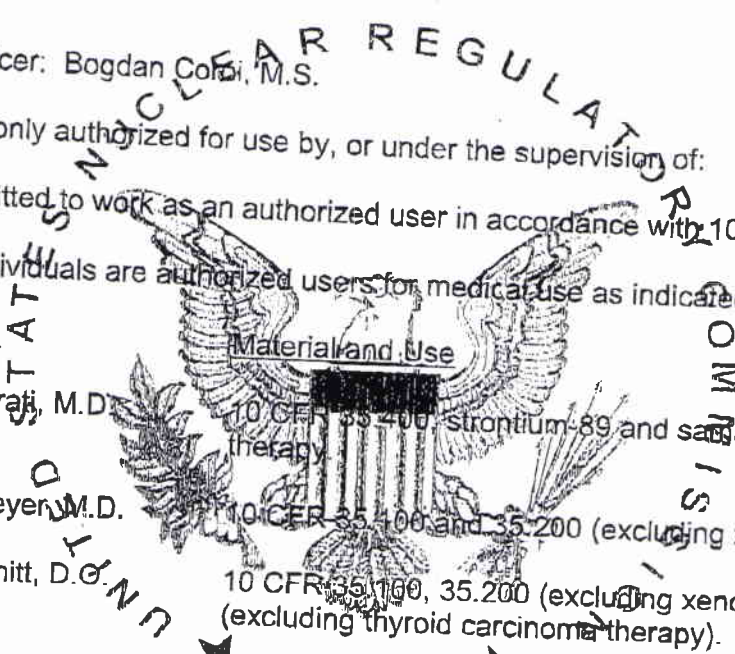
Docket or Reference Number  
030-11417

Amendment No. 29

CONDITIONS

10. A. License material described in Subitems 6. A. through 6. E. may be used at the licensee's facilities located at 2620 N. Westwood Boulevard, Poplar Bluff, Missouri.
- B. License material described in Subitems 6. A. through 6. B. may also be used at the licensee's facilities located at 621 Pine Boulevard, Poplar Bluff, Missouri and **2352 Katy Lane, Poplar Bluff, Missouri.**
11. Radiation Safety Officer: Bogdan Cofai, M.S.
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 medical use as indicated:
 

Authorized Users	Material and Use
Subhash B. Gujarati, M.D.	10 CFR 35.400 strontium-89 and samarium-153 for cancer therapy
Dennis Luetkemeyer, M.D.	10 CFR 35.100 and 35.200 (excluding xenon-133).
Tom Burford Brumitt, D.O.	10 CFR 35.100, 35.200 (excluding xenon-133) and 35.300 (excluding thyroid carcinoma therapy).
Naranogoud Memula, M.D.	10 CFR 35.300 and 35.400.
Donald Voelker, M.D.	10 CFR 35.100 and 35.200 (excluding xenon-133 and limited to cardiovascular clinical procedures).
Mark D. Zubres, D.O.	10 CFR 35.100 and 35.200 (excluding xenon-133).
Girish Bhatt, M.D.	10 CFR 35.200 (excluding xenon-133).
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 decommissioning financial assurance.
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."



NRC FORM 374A

U.S. NUCLEAR REGULATORY COMMISSION

PAGE 3 of 3 PAGES

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number  
24-16652-01

Docket or Reference Number  
030-11417

Amendment No. 29

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 September 25, 2001; and
- B. Letters dated November 1, 2003 and November 24, 2003;
- C. Letter received March 7, 2005; and
- D. Facsimile dated April 15, 2005



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date APR 18 2005

By Loren J. Hueter  
Loren J. Hueter  
Materials Licensing Branch  
Region III



OFFICIAL RECORD COPY

MATERIALS LICENSE

Amendment No. 7

NOV 01 1994

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, 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.

Licensee

In accordance with letter dated October 3, 1994

1. Harrisonburg Medical Associates

3. License number 45-24852-01

is amended in its entirety to read as follows:

2. 1871 Evelyn Byrd Avenue  
Harrisonburg, Virginia 22801

4. Expiration date July 31, 1997

5. Docket or Reference No. Q30-29291

6. Byproduct, source, and/or special nuclear material

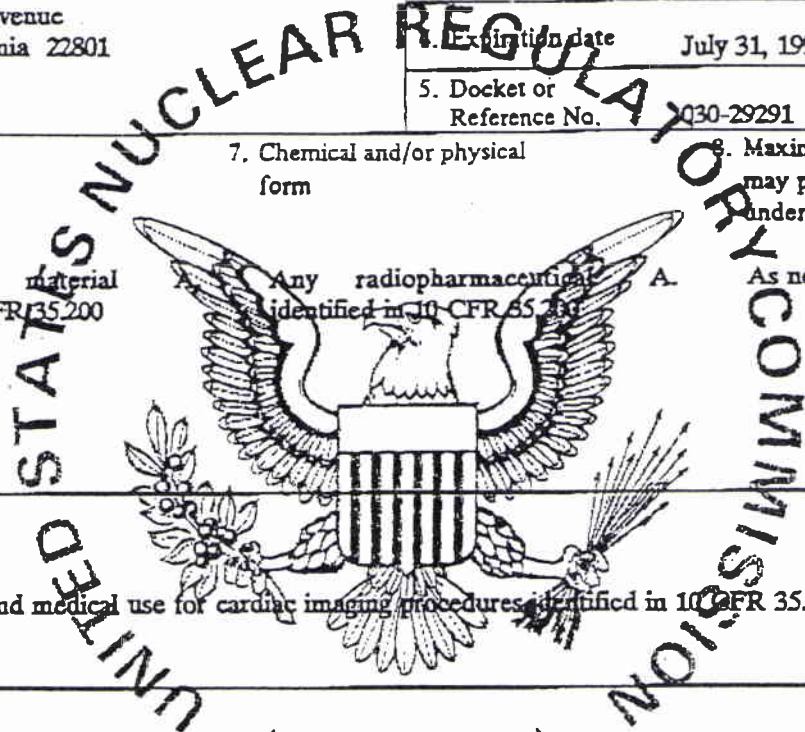
7. Chemical and/or physical form

8. Maximum amount that licensee may possess at any one time under this license

A. Any byproduct material identified in 10 CFR 35.200

Any radiopharmaceutical identified in 10 CFR 35.200

A. As needed



9. Authorized Use:

A. For possession and medical use for cardiac imaging procedures identified in 10 CFR 35.200.

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at 847 Cantrell Avenue and 1871 Evelyn Byrd Avenue, Harrisonburg, Virginia.

11. The Radiation Safety Officer for this license is Douglas Alfred Davies, M.D.

12. Licensed material listed in Item 6 above shall be used by, or under the supervision, of the following individuals for the materials and uses indicated:

A. Douglas Alfred Davies, M.D., for cardiac studies identified in 10 CFR 35.200.

B. Stewart G. Pollock, M.D. for cardiac studies identified in 10 CFR 35.200

13. Sealed sources containing licensed materials shall not be opened by the licensee.

NRC Form 374A  
(5-84)

NUCLEAR REGULATORY COMMISSION

PAGE 2 OF 2 PAGES

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number

45-24852-01

Docket or Reference number

030-29291

Amendment No. 7

(continued)

## CONDITIONS

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 in 10 CFR 30.35(d) for establishing decommissioning financial assurance.
15. The licensee shall maintain records of information important to safe and effective decommissioning at 1871 Evelyn Byrd Avenue, Harrisonburg, Virginia in accordance with the provisions of 10 CFR 30.35(g) until this license is terminated by the Commission.
16. A. The licensee may not possess and use materials authorized in Items 6, 7, and 8, until: 1) the licensee has constructed facilities and obtained the equipment described in the application and supporting documentation; and 2) the U.S. Nuclear Regulatory Commission, Region II, ATTN: Chief, Nuclear Materials Inspection Section, has been notified that activities authorized by the license will be initiated.
- B. Within 30 days of the date of a decision not to complete the facility, acquire equipment, or possess and use authorized material, the licensee must notify the Commission, in writing, of the decision.
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, except for minor changes in the medical use radiation safety procedures as provided in 10 CFR 35.31. The 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 June 14, 1991.
- B. Letters dated:
- August 14, 1992
  - October 22, 1992
  - October 3, 1994 (add Dr. Pollock)

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date

NOV 04 1994

EARL G. WRIGHT

By

*Earl G. Wright*Region II, Nuclear Materials Licensing Section  
101 Marietta Street, N.W., Suite 2900  
Atlanta, Georgia 30323



2620 North Westwood Boulevard  
Poplar Bluff, Missouri 63901

RETURN SERVICE REQUESTED

United States Nuclear Regulatory  
Region III  
2443 Warrenville Rd, Suite 210  
Lisle, Illinois 60532-4362



605324362

