

Ernest F. Baldwin III, M.D.
Internal Medicine
Endocrinology & Metabolism

Thomas O. Dotson, M.D.
Internal Medicine

Milton R. Barrett, II, M.D.
Radiology

Jeffrey M. Graves, M.D.
Internal Medicine

Brittain McJunkin, M.D.
Internal Medicine
Gastroenterology

Patrick L. Brown, M.D.
Cardiology

The Greenbrier Clinic
320 WEST MAIN STREET
WHITE SULPHUR SPRINGS, WEST VIRGINIA 24986
www.greenbrierclinic.com
304-536-4870

Douglas L. Jones, M.D.
Internal Medicine
Endocrinology & Metabolism

Thomas F. Mann, M.D.
Internal Medicine

G. Robert Thompson, M.D.
Internal Medicine

M. Suzanne Romeo, M.D.
Internal Medicine

Donald R. Rollins, M.D.
Internal Medicine,
Pulmonary

October 12, 2006

To: U.S. NRC Region I
475 Allendale Road
King of Prussia, PA 19406-1415

Br. 1

RECEIVED
REGION I
2006 OCT 17 PM 12: 39

Subject: Addition of Authorized Users
License # 47-25597-01

03036028

Dear Sir or Madame,

Please add the following physician to the Greenbrier Clinic, Inc. License # 47-25597-01 as Authorized User:

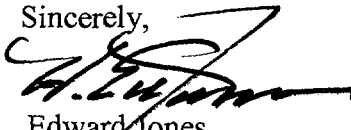
Milton R. Barrett, II, M.D. user in 10CFR 35.200
Authorized User Radioactive Material License # R-79195-B15 Tennessee Department of Environment and Conservation Division of Radiological Health. (Copy of license attached)

Please delete the following physicians as Authorized Users:

Charles D. Burtner, M.D. Frederick J. Gabriel, M.D.
Claudia A. Goodwin, M.D. Lois Marian Speiden, M.D.
Andrew W. Goodwin, M.D. Henry Lee Setliff, M.D.
Timothy B. Hetzer, M.D. Alan M. Lintala, M.D.

We would at this time also like to delete the authorized use of materials and procedures that are included under 10CFR 35.100 and 10 CFR 35.300

The above changes were approved at the Radiation Safety Committee meeting on August 22,2006

Sincerely,

Edward Jones
Administrator

139594
NMSS/RGNI MATERIALS-002

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF RADIOLOGICAL HEALTH

RADIOACTIVE MATERIAL LICENSE

Amendment 28

Page 1 of 1 Page

License Number R-79195-B15

Diagnostic Imaging, P.C.
6401 Poplar Avenue, Suite 100
Memphis, Tennessee 38119

Attention: Louis S. Parvey, M.D., Radiation Safety Officer

As requested by Louis S. Parvey, M.D. and in accordance with his letter dated May 4, 2006, with attachments, your Tennessee Radioactive Material License number R-79195-B15 is amended as follows:

To delete Condition 29. This condition is hereby deleted.

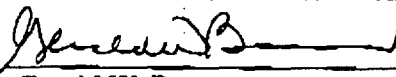
To change Condition 28. This condition will now read as follows:

28. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Items 6, 8, and 9 of this license in accordance with statements, representations, and procedures contained in the following:
- Application dated November 23, 2004, with attachments
 - Letters dated February 9, 2005, with attachment, April 17, 2006, with attachment, May 2, 2006, and May 4, 2006, with attachments.

All other parts of this license remain unchanged.

Date: May 15, 2006

For the Commissioner
Tennessee Department of
Environment and Conservation

By 

Gerald W. Bacon
Health Physicist
Division of Radiological Health

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF RADIOLOGICAL HEALTH

RADIOACTIVE MATERIAL LICENSE

Amendment 26

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License Number R-79195-B15

Diagnostic Imaging, P.C.
6401 Poplar Avenue, Suite 100
Memphis, Tennessee 38119

Attention: Louis Parvey, M.D., Radiation Safety Officer

As requested by Louis Parvey and in accordance with his letter dated April 17, 2006, with attachment, your Tennessee Radioactive Material License number R-79195-B15 is amended as follows:

To add Condition 29. This condition will read as follows:

29. In addition to the address in Item 2, the licensee is authorized to use and store radioactive material at 1068 Cresthaven Road, Memphis, Tennessee until the move to the new facility has been completed and a survey of use and storage areas shows that no sources and/or contamination remains. A record of this survey shall be maintained and a copy submitted to the Department.

To change Item 2 and Condition 28. This item and this condition will now read as follows:

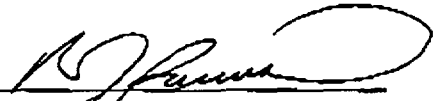
2. 6401 Poplar Avenue, Suite 100
Memphis, Tennessee 38119
28. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Items 6, 8, and 9 of this license in accordance with statements, representations, and procedures contained in the following:
- Application dated November 23, 2004, with attachments
 - Letters dated February 9, 2005, with attachment, and April 17, 2006, with attachment.

All other parts of this license remain unchanged.

Date: April 19, 2006

**For the Commissioner
Tennessee Department of
Environment and Conservation**

By


**Ronald J. Parsons
Health Physicist
Division of Radiological Health**

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF RADIOLOGICAL HEALTH

RADIOACTIVE MATERIAL LICENSE

Amendment 27

Page **1** of **1** Page

License Number **R-79195-B15**

Diagnostic Imaging, P.C.
6401 Poplar Avenue, Suite 100
Memphis, Tennessee 38119

Attention: Louis S. Parvey, M.D., Radiation Safety Officer

As requested by Louis Parvey and in accordance with his letter dated May 2, 2006, your Tennessee Radioactive Material License number R-79195-B15 is amended as follows:

To change Conditions 13 and 28. These conditions will now read as follows:

13. A. Radioactive material authorized by this license shall be used by, or under the supervision of, the following individuals as specified:

All radioactive material listed on this license:

Ed Atkinson, M.D.
Milton R. Barrett, II, M.D.
Robert A. Duke, M.D.

Clarence G. Herrington, III, M.D.
Louis S. Parvey, M.D.

B. The Radiation Safety for this license is Louis S. Parvey, M.D.

28. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Items 6, 8, and 9 of this license in accordance with statements, representations, and procedures contained in the following:

- Application dated November 23, 2004, with attachments
- Letters dated February 9, 2005, with attachment, April 17, 2006, with attachment, and May 2, 2006.

All other parts of this license remain unchanged.

Date: May 8, 2006

**For the Commissioner
Tennessee Department of
Environment and Conservation**

By



**Ronald J. Parsons
Health Physicist
Division of Radiological Health**

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
 DIVISION OF RADIOLOGICAL HEALTH



RADIOACTIVE MATERIAL LICENSE
Amendment 25

Pursuant to Tennessee Department of Environment and Conservation Regulations, 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 radioactive material listed below; and to use such radioactive material for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules and regulations of the Tennessee Department of Environment and Conservation and orders of the Division of Radiological Health, now or hereafter in effect and to any conditions specified below.

1. Name Diagnostic Imaging, P.C. 2. Address 1068 Cresthaven Road Memphis, TN 38119		3. License number R-79195-B15 AMENDED IN ITS ENTIRETY
		4. Expiration date February 28, 2015
		5. File no. R-79195
6. Radioactive Material (Element and Mass Number)	8. Chemical and/or physical form	9. Maximum Radioactivity and/or quantity of material which licensee may possess at any one time.
See Supplementary Sheet		

10. Authorized Use

See Supplementary Sheet

CONDITIONS

11. Unless otherwise specified, the authorized place of use is the licensee's address stated in item 2, above.

See Supplementary Sheet

For the Commissioner
 Tennessee Department of Environment and Conservation

Date of Issuance February 22, 2005

By: Sasi Krishnasarma
 DIVISION OF RADIOLOGICAL HEALTH

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Sasi Krishnasarma
 Health Physicist

**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF RADIOLOGICAL HEALTH**

RADIOACTIVE MATERIAL LICENSE

Supplementary Sheet

Amendment 25

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License Number R-79195-B15

6. Radioactive Material (Element and <u>Mass Number</u>)	8. Chemical and/or <u>Physical Form</u>	9. Maximum Radioactivity and/or Quantity of Material Which Licensee May <u>Possess at Any One Time</u>
A. Any radioactive material specified in Group I [Rule 1200-2-10.14(6)(a) of "State Regulations for Protection Against Radiation."]	A. Any radiopharmaceutical specified in Group I [Rule 1200-2-10.14(6)(a) of "State Regulations for Protection Against Radiation."]	A. As necessary for the uses authorized in Item 10.A.
B. Any radioactive material specified in Group II, except Xenon [Rule 1200-2-10.14(6)(b) of "State Regulations for Protection Against Radiation."]	B. Any radiopharmaceutical specified in Group II, except Xenon [Rule 1200-2-10.14(6)(b) of "State Regulations for Protection Against Radiation."]	B. As necessary for the uses authorized in Item 10.B.
C. Any radioactive material specified in Group III [Rule 1200-2-10.14(6)(c) of "State Regulations for Protection Against Radiation."]	C. Any radiopharmaceutical specified in Group III, except generators [Rule 1200-2-10.14(6)(c) of "State Regulations for Protection Against Radiation."]	C. As necessary for the uses authorized in Item 10.C.
D. Any radioactive material specified in Group IV, except Iodine [Rule 1200-2-10.14(6)(d) of "State Regulations for Protection Against Radiation."]	D. Any radiopharmaceutical specified in Group IV, except Iodine [Rule 1200-2-10.14(6)(d) of "State Regulations for Protection Against Radiation."]	D. Total possession limit 100 millicuries.
E. Iodine 131	E. Sodium Iodide Capsules	E. No single dose to exceed 33 millicuries. Total not to exceed 200 millicuries.
F. Cesium 137	F. Sealed Source (Any sources used for calibration or as reference standards which have been evaluated and approved by either the U.S. NRC and/or an Agreement State).	F. No single source to exceed the maximum activity authorized in the <u>Registry of Sealed Sources and Devices</u> for that source. Total not to exceed two (2) sources.

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF RADIOLOGICAL HEALTH

RADIOACTIVE MATERIAL LICENSE

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Amendment 25Page 3 of 7 PagesLicense Number R-79195-B15

- G. Cobalt 57
- G. Sealed Source (Any sources used for calibration or as reference standards which have been evaluated and approved by either an Agreement State and/or Licensing State).
- G. No single source to exceed the maximum activity authorized in the Registry of Sealed Sources and Devices for that source, or for non-registered sources, not to exceed 100 microcuries each. Total not to exceed four (4) sources.

10. Authorized use

- A. Any diagnostic procedures specified in Group I [Rule 1200-2-10-.14(6)(a) of "State Regulations for Protection Against Radiation."]
- B. Any diagnostic procedures specified in Group II, except Xenon [Rule 1200-2-10-.14(6)(b) of "State Regulations for Protection Against Radiation."]
- C. Preparation and use of radiopharmaceuticals for any diagnostic procedures specified in Group III, except generators [Rule 1200-2-10-.14(6)(c) of "State Regulations for Protection Against Radiation."]
- D. Any therapeutic procedures specified in Group IV, except Iodine [Rule 1200-2-10-.14(6)(d) of "State Regulations for Protection Against Radiation."]
- E. For hypothyroidism and cardiac dysfunction. No total patient administration shall exceed 33 millicuries.
- F and G. For use as calibration or reference sources.

Conditions (continued)

12. The licensee shall comply with applicable provisions of 1200-2-4, 1200-2-5, and 1200-2-10 of "State Regulations for Protection Against Radiation."
13. A. Radioactive material authorized by this license shall be used by, or under the supervision of, the following individuals as specified:

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF RADIOLOGICAL HEALTH

RADIOACTIVE MATERIAL LICENSE

Supplementary Sheet

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All radioactive material listed on this license:

Ed Atkinson, M.D.

Robert A. Duke, M.D.

Milton R. Barrett, II, M.D.

Louis Parvey, M.D.

Daniel J. Becker, M.D.

All radioactive material listed on this license except Items D and E:

Suresh Kumar Lakhanpal, M.D.

B. The Radiation Safety for this license is Milton R. Barrett, II, M.D.

14. Radioactive material to be administered to humans, including gases or gases in solution, shall be procured from a supplier who distributes the product indicated for human use in accordance with the Federal Food, Drug, and Cosmetic Act.
15. The survey meter shall be checked by a reference check source of long half-life, e.g. Cs-137. The reading shall be taken with the check source placed in specific geometry relative to the detector. A reading of this reference check source should be taken:
- A. Before each use.
 - B. After each maintenance and/or battery change
 - C. At least quarterly.

If any reading with the same geometry is not within $\pm 20\%$ of the reading measured immediately after calibration, the instrument should be recalibrated.

16. In addition to the authorizations granted in 1200-2-10-14(6)(b)(18), 1200-2-10-14(6)(c)(5), and 1200-2-10-14(6)(d)(4), of "State Regulations for Protection Against Radiation," the licensee may possess and use prepared diagnostic and therapeutic radiopharmaceuticals and reagent kits used to prepare radiopharmaceuticals for which a Product License Application (PLA) has been accepted by the U.S. Food and Drug Administration (FDA).
17. In addition to the possession limits in Item 9, the licensee shall further restrict the possession of licensed material to quantities below the limits specified in "State Regulations for Protection Against Radiation" 1200-2-10-13(17)(a) which require consideration of the need for an emergency plan for responding to a release of licensed material.
18. The licensee shall not administer to patients Technetium 99m containing more than one (1) microcurie of Molybdenum 99 per millicurie of Technetium 99m or more than five (5) microcuries of Molybdenum 99 per dose of Technetium 99m at time of administration. The limits for Molybdenum 99 contamination represent maximum values, and Molybdenum 99 contamination should be kept as low as reasonably achievable below these limits.

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF RADIOLOGICAL HEALTH

RADIOACTIVE MATERIAL LICENSE

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19. A. Sealed sources authorized by this license shall be tested for leakage and/or contamination at intervals not to exceed six (6) months. In the absence of a certificate from a transferor indicating that a test has been made within six (6) months prior to transfer, the sealed source shall not be put into use until tested.
- B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surface of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. Records of leak tests shall be kept in units of microcuries and maintained for inspection by the Department.
- C. If the test reveals the presence of 0.005 microcurie of more of removable contamination the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Department regulations. A report shall be filed within five (5) days of the test with the Tennessee Department of Environment and Conservation, Division of Radiological Health, L&C Annex - Third Floor, 401 Church Street, Nashville, Tennessee, 37243-1532, describing the equipment involved, the test results, and the corrective action taken.
- D. Tests for leakage and/or contamination shall be performed by persons specifically authorized by this Department, the U.S. Nuclear Regulatory Commission, or another Agreement State to perform such services.
20. Notwithstanding the periodic leak test required by Condition 19, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.
21. The licensee shall not open sealed sources containing radioactive material.
22. The licensee in making disposal of radioactive wastes to the sanitary sewer system shall do so in conformity with 1200-2-5-.122 of "State Regulations for Protection Against Radiation."
23. The licensee is authorized to hold radioactive material with a physical half-life of 120 days or less for decay-in-storage before disposal in ordinary trash provided:
- A. Radioactive waste to be disposed of in this manner shall be held for decay a minimum of 10 half-lives.
- B. Before disposal as ordinary trash, radioactive waste shall be surveyed at the container surface with the appropriate survey instrument set on its most sensitive scale with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
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RADIOACTIVE MATERIAL LICENSE

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- C. Records of each disposal made under this condition shall be retained for three years.
24. The licensee may use a shield device for performing linearity tests of his dose calibrator provided he or she follows the manufacturer's procedures for its use. These procedures shall be maintained for inspection by the Department.
25. The licensee is authorized to use Technetium 99m DTPA for lung aerosol studies. The licensee shall perform radiation surveys in conjunction with these studies and shall institute the use of any additional procedures or equipment to minimize exposure from radioactive material which may result from these studies. Records of these surveys shall be maintained for inspection by the Department.
26. The licensee may release patients who have been administered radiopharmaceuticals for therapy in accordance with the following requirements:

The licensee may authorize the release from its control any individual who has been administered radioactive material if the total effective dose equivalent to any other individual from exposure to the released individual is not likely to exceed 0.5 rem.¹

- A. The licensee shall provide the released individual, or the individual's parent or guardian, with instructions, including written instructions, on actions recommended to maintain doses to other individuals as low as is reasonably achievable if the total effective dose equivalent to any other individual is likely to exceed 0.1 rem. If the total effective dose equivalent to a nursing infant or child could exceed 0.1 rem assuming there were no interruption of breast-feeding, the instructions must also include:
- (1) Guidance on the interruption or discontinuance of breast-feeding; and
 - (2) Information on the potential consequences, if any, of failure to follow the guidance.
- B. The licensee shall retain, for three years after the date of release, a record that the instructions required by B were provided to a breast-feeding woman if the radiation dose to the infant or child from continued breast-feeding could result in a total effective dose equivalent exceeding 0.5 rem.
- C. The licensee shall maintain a record of instructions provided to a breast-feeding female in accordance with C.
- D. The authorized user shall sign, and the licensee shall retain, for three years after the date of release, a record of the basis for authorizing the release of an individual, if the total effective dose equivalent is calculated by:
- (1) Using the retained activity rather than the activity administered;
 - (2) Using an occupancy factor less than 0.25 at 1 meter;
 - (3) Using the biological or effective half-life; or
 - (4) Considering the shielding by tissue.

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
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E. The licensee shall provide the released individual, or the individual's parent or guardian, with instructions, including written instructions, for proper disposal of any resulting radioactive waste attributable to an individual's treatment performed by the licensee.

Appendix O. "Release of Patients or Human Research Subjects Administered Radioactive Materials"

27. No provision of this license relieves the licensee from compliance with other Federal, State and local laws, ordinances, and regulations applicable to the licensee's activities.

28. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Items 6, 8, and 9 of this license in accordance with statements, representations, and procedures contained in the following:

- Application dated November 23, 2004, with attachments
- Letter dated February 9, 2005, with attachment.

This is to acknowledge the receipt of your letter/application dated

10/21/2006, and to inform you that the initial processing which includes an administrative review has been performed.

Amendment 47-25597-01 There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

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

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** 139594.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.