

Vermont Radiologists
620 Hinesburg Road
So. Burlington, Vt 05403
Telephone: 802 863 1249

To:Licensing Assistant Section
Nuclear Material Safety Branch
U.S. Nuclear Regulatory Commission Region I
King of Prussia, PA 19406-1415

From:Vermont Radiologists
620 Hinesburg Road
So. Burlington, Vermont 05403

NMSB1

Date: July 12,2007

RE: Amendment to license
License Number: 44-28802-01
Docket No. 030-32980

2007 JUL 20 PM 1:24
RECEIVED
REGION I

Dear Licensing Assistant,

Vermont Radiologist is submitting the following information for licensure amendment.

Our facility would like to add Dr. Daniel Foder to our license. Enclosed are his credentials.

Also, requesting to add Dr. Robert Michael Smith to Vermont Radiologists' license. Dr Smith is currently on the following license:
Northeastern Vermont Regional Hospital, Inc.
PO Box 905 St. Johnsbury, Vermont 05819
A copy of their license has been included with letter.

If there any need for additional information the following person is the contact person:

Joy Cayea RTR,RTN
Vermont Radiologists
602 Hinesburg Road
So. Burlington, Vt 05403
Telephone: 802 863 1249

Sincerely



Dr. Harley Neel, MD, RSO

140837

Posted 2/06/07

NRC FORM 374

U.S. NUCLEAR REGULATORY COMMISSION

PAGE 1 OF 3 PAGES

Amendment No. 18

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. Northeastern Vermont Regional Hospital Inc.</p> <p>2. P.O. Box 905 St. Johnsbury, Vermont 05818</p>	<p>In accordance with the letter dated December 7, 2006,</p> <p>3. License number 44-16262-01 is amended in its entirety to read as follows:</p> <p>4. Expiration date May 31, 2012</p> <p>5. Docket No. 05019781 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. Iodine 131 permitted by 10 CFR 35.300</p>	<p>Chemical and/or physical form</p> <p>A. Any</p> <p>B. Any</p> <p>C. Any</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>100 millicuries</p>
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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 sodium iodide iodine-131 use permitted by 10 CFR 35.300 in quantities less than or equal to 33 millicuries, for which the patient can be released under the provisions of 10 CFR 35.75.

CONDITIONS

- 10. Licensed material may be used or stored only at the licensee's facilities located at 1315 Hospital Drive, St. Johnsbury, Vermont.
- 11. The Radiation Safety Officer for this license is Bradley P. Collette.

NRC FORM 374A

U.S. NUCLEAR REGULATORY COMMISSION

PAGE 2 of 3 PAGES

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

44-16262-01

Docket or Reference Number

03010781

Amendment No. 18

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:

Authorized Users

Material and Use

Hartley S. Neel, M.D.

35.100; 35.200; Oral administration of sodium iodide iodine-131 in quantities less than or equal to 33 millicuries

Richard Bennum, M.D.

35.100; 35.200; Oral administration of sodium iodide iodine-131 in quantities less than or equal to 33 millicuries

Candice E. Ortiz, M.D.

35.100; 35.200; Oral administration of sodium iodide iodine-131 for diagnostic studies

Mark R. Heltzman, M.D.

35.100; 35.200

Robert D. Johnson, M.D.

35.100; 35.200; Oral administration of sodium iodide iodine-131 for diagnostic studies

Frederick Crowley, M.D.

35.100; 35.200; Oral administration of sodium iodide iodine-131 for diagnostic studies

Mark D. S. Wellens, M.D.

35.100; 35.200; Oral administration of sodium iodide iodine-131 for diagnostic studies

Robert Michael Smith, M.D.

35.100; 35.200

Ed Ray Smith, M.D.

35.100; 35.200

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 74A

U.S. NUCLEAR REGULATORY COMMISSION

PAGE 3 of 3 PAGES

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number
44-16262-01

Docket or Reference Number
03010781

Amendment No. 18

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 28, 2002



For the U.S. Nuclear Regulatory Commission

Date January 25, 2007

By Sandra Gabriel

Sandra Gabriel
Medical Branch
Division of Nuclear Materials Safety
Region I
King of Prussia, Pennsylvania 19406

Thursday, January 25, 2007 5:30:56 PM

David Jordan

Section A: I am board certified as listed below.

SECTION A	Page 1 of 3
CERTIFICATION SPECIFICATION	
Name of Governing Board: _____	
Certification Specification: _____	
Date of Certification: _____	

Section B: I am not board certified. Information regarding applicable training and experience, and appropriate preceptor statements are provided.

TRAINING AND EXPERIENCE				
FIELD OF TRAINING A	LOCATION AND DATE(S) OF TRAINING B	TYPE AND LENGTH OF TRAINING		
		CLOCK HOURS IN LECTURE OR LABORATORY	CLOCK HOURS OF SUPERVISED ON-THE-JOB EXPERIENCE	
a. RADIATION PHYSICS AND INSTRUMENTATION	University Hospital E. L. Saenger Radioisotope Laboratory Stephen R. Thomas, Ph.D. Ranasing Samaratunga, Ph.D.	60 hours	20 hours	
b. RADIATION PROTECTION	University Hospital E. L. Saenger Radioisotope Laboratory Michael Burba, Deputy RSO	9 hours	2 hours	
c. MATHEMATICS PERTAINING TO THE USE AND MEASUREMENT OF RADIOACTIVITY	University Hospital E.L. Saenger Radioisotope Laboratory Ranasing Samaratunga, Ph.D.	2 hours	1 hour	
d. RADIOPHARMACEUTICAL CHEMISTRY OF BY-PRODUCT MATERIAL FOR MEDICAL USE	University Hospital E.L. Saenger Radioisotope Laboratory Lee Washburn, Ph.D. Chemistry	2 hours	2 hours	
e. RADIATION BIOLOGY	University Hospital E.L. Saenger Radioisotope Laboratory Stephen R. Thomas, Ph.D	10 hours	-----	
5. EXPERIENCE WITH RADIATION (Actual use of Radioisotopes or Equivalent Experience)				
ISOTOPE	mCi USED AT ONE TIME (Maximum Activity)	LOCATION	CLOCK HOURS	TYPE OF USE
Tc-99m Tl-201 111-In Ga-67 I-123 I-131, etc.	~1.5 Curie per elution 5 mCi 500 uCi 10 mCi 200 uCi 250 mCi	Nuclear Medicine Laboratories at University, Veterans and Children's Hospitals	700 hours	Imaging studies, generator elution; kit preparations including Tc-MAA, Tc-MDP
Additional:	clinical lectures - 83 hours Radiology T-meeting - 20 hours Board review - 25 hours PET conference - 12 hours	University Hospital	140 hours	Case review

PRECEPTOR STATEMENT

PRECEPTOR STATEMENT Page 2 of 3

Supplement B must be completed by the applicant physician's preceptor. If more than one preceptor is necessary to document experience, obtain a separate statement for each.

1. PROPOSED PHYSICIAN USER'S NAME AND ADDRESS

FULL NAME Daniel Fodor, M.D.

STREET ADDRESS 5027 Village Drive

CITY Cincinnati STATE OH ZIP CODE 45244

- KEY TO COLUMN C
PERSONAL PARTICIPATION SHOULD CONSIST OF:
1. Supervised examination of patients to determine the suitability for radioisotope diagnosis and/or treatment and recommendation for prescribed dosage.
 2. Collaboration in dose calibration and actual administration of dose to the patient including calculation of the radiation dose related measurements and plotting of data.
 3. Adequate period of training to enable physician to manage radioactive patients and follow patients through diagnosis and/or course of treatment.

2. CLINICAL TRAINING AND EXPERIENCE OF ABOVE NAMED PHYSICIAN

ISOTOPE A	CONDITIONS DIAGNOSED OR TREATED B	AVERAGE NUMBER OF CASES INVOLVING PERSONAL PARTICIPATION	COMMENTS (Additional information or comments may be submitted in duplicate on separate sheets.)
	Thyroid uptake and scan	81	
	Lung perfusion scan	253	
	Xenon ventilation study	251	
	Aerosol ventilation scan	7	
	Renal flow and scan	58	
	Brain scan	20	
	Liver/spleen scan	5	
	Bone scan	449	
	Gastric emptying study	34	
	Blood volumes	16	
	G-I bleeding study	10	
	Cardiac perfusion imaging	245	
	Cardiac stress ventriculogram	1	
	Cardiac rest ventriculogram	122	
	Gallium scan	1	
	Hepatobiliary scan	48	
	White cell scan	12	
	Lymph node scans	32	
	Other	594	Other includes tumor imaging, lacrimal imaging, PET scans, DEXAs, CSF shunt, GFR, C-14 breath test, parathyroid, adrenal scan, cisternogram, thyroid cancer workups

2. CLINICAL TRAINING AND EXPERIENCE OF ABOVE NAMED PHYSICIAN

ISOTOPE A	PROCEDURES PERFORMED B	NUMBER OF CASES INVOLVING PERSONAL PARTICIPATION	COMMENTS <i>(Additional information or comments may be submitted in duplicate on separate sheets.)</i>
P-32	TREATMENT OF POLYCYTHEMIA VERA, LEUKEMIA, AND BONE METASTASES		
P-32	INTRACAVITARY TREATMENT		
I-131	TREATMENT OF THYROID CARCINOMA	26	
	TREATMENT OF HYPERTHYROIDISM	31	
Au-198	INTRACAVITY TREATMENT		
Co-60 or Cs-137	INTERSTITIAL TREATMENT		
	INTRACAVITY TREATMENT		
	TELETHERAPY TREATMENT		
Sr-90	TREATMENT FOR EYE DISEASE		
Mo-99	GENERATOR ELUTION	5	
Tc-99m	REAGENT KIT PREPARATION	5	
In-111	WHITE BLOOD CELLS PREPARATION		
Other	Sm-89 THERAPY	1	

3. DATES AND TOTAL NUMBER OF HOURS RECEIVED IN CLINICAL RADIOISOTOPE TRAINING
 LOCATION: Nuclear Medicine Departments at University, Children's and Veterans Hospitals
 DATES: July 2002 - June 2006
 CLOCK HOURS OF EXPERIENCE: 1048 hours

4. THE TRAINING AND EXPERIENCE INDICATED ABOVE WAS OBTAINED UNDER THE SUPERVISION OF:

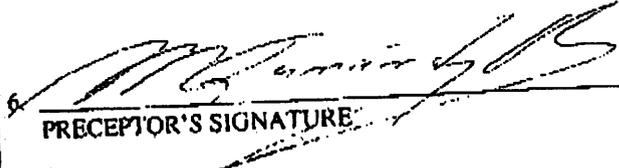
Mariano Fernandez-Ulloa, M.D.
 Edward B. Silberstein, M.D.
 Jonathan Rubin, MD.
 Names of supervising physicians

The University Hospital
 Name of Institution

234 Goodman Street, Nuclear Medicine, ML 0577
 Mailing Address

Cincinnati OH 45219-2316
 City State Zip Code

5. MATERIALS LICENSE NUMBER (S)
 University of Cincinnati 34-06903-05


 PRECEPTOR'S SIGNATURE

7. Mariano Fernandez-Ulloa, M.D.
 Medical Director, Nuclear Medicine
 PRECEPTOR'S PRINTED/TYPED

8. June 8, 2006
 DATE

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 style="text-align: center;">Licensee</p> <p>1. Vermont Radiologists</p> <p>2. 620 Hinesburg Road South Burlington, Vermont 05403</p>	<p>In accordance with the application dated November 26, 2002</p> <p>3. License number 44-28802-01 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date January 31, 2013</p> <hr/> <p>5. Docket No. 030-32980 Reference No. <u> </u></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>7. Chemical and/or physical form</p> <p>A. Any</p> <p>B. Any</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>
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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

CONDITIONS

- 10. Licensed material may be used or stored only at the licensee's facilities at 620 Hinesburg Road, South Burlington, Vermont.
- 11. The Radiation Safety Officer for this license is Hartley Neel, M.D.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number
44-28802-01

Docket or Reference Number
030-32980

Amendment No. 06

12. Licensed material is only authorized for use by, or under the supervision of:

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

Authorized Users

Material and Use

Hartley Neel, M.D.

35.100; 35.200

Richard Bennum, M.D.

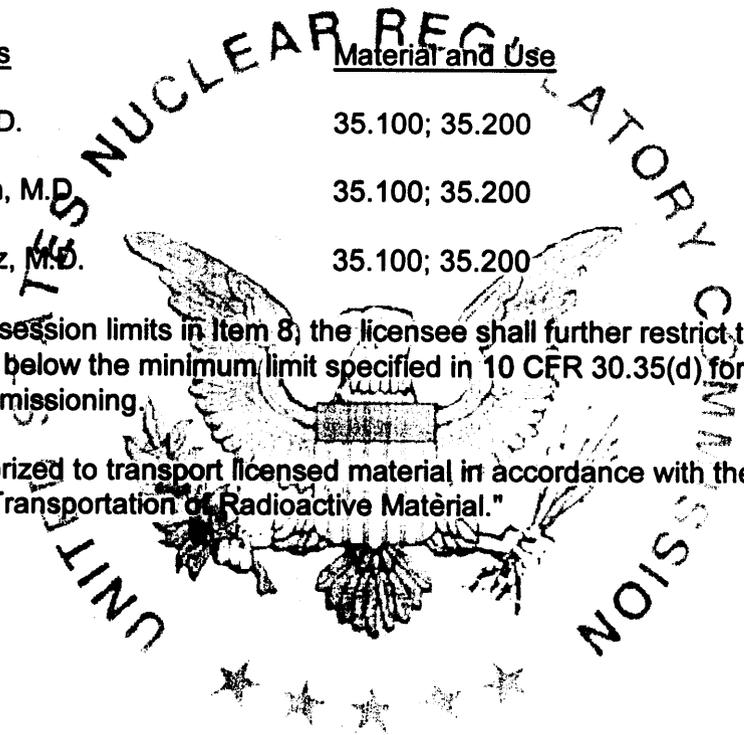
35.100; 35.200

Candace E. Ortiz, M.D.

35.100; 35.200

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."



**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

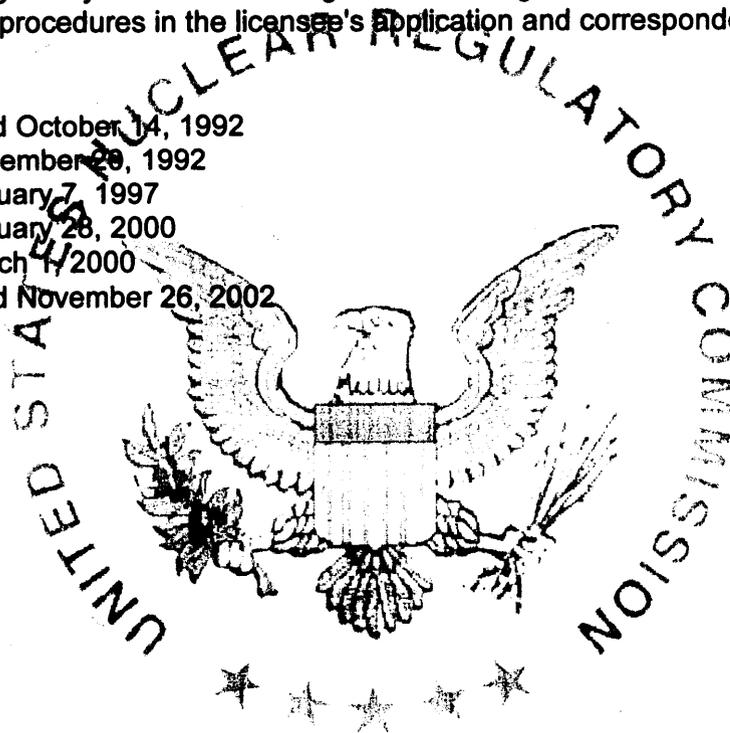
License Number
44-28802-01

Docket or Reference Number
030-32980

Amendment No. 06

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 October 14, 1992
 B. Letter dated November 29, 1992
 C. Letter dated January 7, 1997
 D. Letter dated January 28, 2000
 E. Letter dated March 1, 2000
 F. Application dated November 26, 2002



For the U.S. Nuclear Regulatory Commission

Date January 14, 2003

By

Original signed by James P. Dwyer

James P. Dwyer
 Nuclear Materials Safety Branch 1
 Division of Nuclear Materials Safety
 Region I
 King of Prussia, Pennsylvania 19406

22845289

This is to acknowledge the receipt of your letter/application dated 7/12/2007, and to inform you that the initial processing which includes an administrative review has been performed.

AMEND. 44-28802-d1
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** 140837.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.