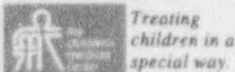


NORTH MAIN IMAGING
& Diagnostic Center, Inc.



Monday - Thursday 8:00 - 7:00
Friday 8:00 - 5:00
Saturday 9:00 - 1:00

7271 N. Main St. • Dayton, OH 45415

(FAX 513/276-8008)

513/276-8000

September 13, 1996

United States Nuclear Regulatory Commission
Region III
Nuclear Materials Licensing Section
801 Warrenville Road
Lisle, IL 60532-4351

License No. 34-26265-01

Dear Madam/Sir:

The Radiation Review Committee of North Main Imaging and Diagnostic Center, Inc., wishes to notify you of our review and approval, on September 13, 1996, of a physician authorized user for our license. Dr. Peter Lewis is currently approved and listed for nuclear cardiology only on the USAF Radioactive Material Permit No. 34-04682-1 AFP working at Wright Patterson AFB, Ohio 45433-5529. Enclosed is a copy of that Radioactive Material Permit on which he was approved.

At North Main Imaging and Diagnostic Center, Inc., Dr. Lewis shall likewise only be limited to nuclear cardiology procedures under 10 CFR 35.200. Dr. Lewis shall begin his immediate involvement in these nuclear cardiology procedures.

Should you have any questions, please do not hesitate to contact either Mark Berner, Radiation Safety Consultant, at 513-298-3399, Ext. 7704 or me at 513-276-8000.

Sincerely,

K. Chris Chung, M.D.
Chairperson Radiation Review Committee &
Radiation Safety Officer

Enclosure: As stated.

070083

pm, 9-24-96

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SEP 27 1996
REGION III

SEP 27 1996

NL31

Board Certified Radiologists Specializing In:
Diagnostic X-Ray • Fluoroscopy • Mammography • Ultrasound • CT Scan • MRI Scan • Non-Invasive Vascular Lab
Nuclear Medicine • Pediatric Radiology • Neurodiagnostics - EEG, EMG

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PDR ADDCK 03032014
C PDR

NORTH MAIN IMAGING



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR FORCE MEDICAL OPERATIONS AGENCY
BROOKS AIR FORCE BASE TEXAS

2 Feb 1994

MEMORANDUM FOR 645 Med Gp/SGHRT

FROM: HQ AFMOA/SGPR

8901 18th St

Brooks AFB TX 78235-5217

SUBJECT: Renewal of USAF Radioactive Material Permit No. 34-04682-1AFP

This is to acknowledge receipt of your application for permit renewal dated 27 Jan 1994. Your application has been deemed timely filed and subject permit will not expire until final action has been taken by our office.

Inspection category and priority codes for this Permit are 02121/03123 and 3 respectively.

Contact us if problems arise from delay in processing your renewal: Telephone: DSN 240-3331 [(210) 536-3331]; Telefax: DSN 240-4382 [(210) 536-4382]; E-Mail: moore@afoms.brooks.af.mil; or Message: HQ AFMOA BROOKS AFB TX//SGPR//. Reference Permit No. 34-04682-1AFP and Docket No. 030-02732.

BARBARA L. MOORE

Management Assistant

USAF Radioisotope Committee Secretariat

Office of the Surgeon General

cc:

645 Med Gp/SGHRP

HQ AFMC/SGBR

HQ AFIA/SGM (Maj Bollinger)

USNRC, Region IV (Ms. McLean)



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR FORCE MEDICAL OPERATIONS AGENCY
BROOKS AIR FORCE BASE, TEXAS

27 Apr 1995

MEMORANDUM FOR 74 Medical Group/SGORP
74 Medical Group/SG
IN TURN

FROM: HQ AFMOA/SGPR
8901 18th St
Brooks AFB TX 78235-5217

SUBJECT: USAF Radioactive Material Permit No. 34-04682-1AFP, Docket No. 030-02732

NOTE TO THE PERMIT RSO: Attached is one copy of the permit for the permittee's files. Please make a copy for your files.

Attached is Amendment No. 15 to USAF Radioactive Material Permit No. 34-04682-1AFP amending it in its entirety to grant use authorization for Items 6. - 9.N. and to amend Conditions 10.A. and 22. Changes made to the permit are indicated in bold.

Please note your application for renewal of this permit is still under review and will be addressed as a separate action.

Your amendment requests dated 28 Mar 1995 and 22 Mar 1995 are still under review and will be addressed as a separate action.

Inspection category and priority codes for this Permit are 02121/03123 and 3 respectively.

Reference your correspondence to Permit No. 34-04682-1AFP and Docket No. 030-02732. If you have any questions, please contact us at DSN 240-3331 or commercial (210) 536-3331. Telefax: DSN 240-4382, (210) 536-4382. E-Mail: speer_r@msa01.brooks.af.mil.

A handwritten signature in black ink, appearing to read "R. Speer", is written over the typed name and title.

RICHARD M. SPEER, Maj. USAF, BSC
Health Physicist
USAF Radioisotope Committee Secretariat
Office of the Surgeon General

Attachment:
Amendment No. 15 to Permit No. 34-04682-1AFP

cc:
(See Next Page)

CURRENT AS OF: 18 July 1996

AUTHORIZED USERS FOR USAF RADIOACTIVE MATERIALS PERMIT # 34-04682-01AFP

		UPTAKE, DILUTION, EXCRETION	IMAGING, LOCALIZATION	RADIOPHARMACE UTICAL THERAPY	BRACHY- THERAPY	I-131 HYPER- THYROIDISM	I-131 THYROID- CARCINOMA
	DATE APPROVED	(35.100)	(35.200)	(35.300)	(35.400)	(35.932)	(35.934)
Barton, Fred	2-Mar-94			X (7-Sep-94)	X		
Black, Richard	6-Jun-90	X	X	X			
Townsend, Patrick	7-Sep-94/22-Jun-95				X		
Silverbusch, Marc	15-Aug-95	X	X				
Beheshti, Michael	30-Oct-91	X	X				
Llewellyn, Beth	14-Dec-94	X	X				
Lewis, Peter	7-Jul-92		X*				
Lenihan, Daniel	6-Sep-95		X*				
Yang, Edward	15-Aug-95	X	X				
Juarez, John	15-Aug-95	X	X	X			
Martinek, Edward	15-Aug-95	X	X				
Tomlinson, Terry	1-Sep-93	X	X				
Voss, Kevin	7-Mar-96	X	X	X (11-Jun-96)			
Gibbs, Richard D.	16-Jul-96	X	X	X			

*limited to Nuclear Cardiology

PAGE 1 OF 5 PAGES

RADIOACTIVE MATERIAL PERMIT **USAF RADIOISOTOPE COMMITTEE**

Pursuant to the authority stated in AFI 40-201, Managing Radioactive Materials in the USAF, and in reliance on statements made by the applicant, permission is hereby granted to receive, possess, and store radioactive materials listed below, and to use this material for the purpose and at the places listed below.

1. ORGANIZATION (Name and Address)

74 Medical Group/SG
4881 Sugar Maple Dr
Wright-Patterson AFB, Ohio 45433-5529

2. PERMIT NO.

34-04682-1AFP

3. AMENDMENT NO

15

4. EXPIRATION DATE

31 Mar 1994

5. DOCKET NO.

030-02732

6. RADIOACTIVE MATERIAL
(Element and Mass Numbers)**7. CHEMICAL/PHYSICAL FORM**
(NSN or Model Number)**8. MAXIMUM QUANTITY AUTHORIZED**

A. Any byproduct material identified in 10 CFR 35.100	A. Any radiopharmaceutical identified in 10 CFR 35.100	A. As needed
B. Any byproduct material identified in 10 CFR 35.200	B. Any radiopharmaceutical identified in 10 CFR 35.200	B. As needed
C. Any byproduct material identified in 10 CFR 35.300	C. Any radiopharmaceutical identified in 10 CFR 35.300	C. As needed
D. Implants in 10 CFR 35.400	D. Any brachytherapy source identified in 10 CFR 35.400	D. 3 Curies
E. Any byproduct material identified in 10 CFR 35.500	E. Any use as specified in CFR 35.500	E. As needed
- Any accelerator produced diagnostic radiopharmaceutical	F. Any radiopharmaceutical	F. As needed
- Any accelerator produced diagnostic calibration standard	G. Any	G. As needed; not to exceed 10 milliCuries per source
H. Xenon 127	H. Gas	H. As needed
I. Americium 241	I. Amersham Model No. 24400A sealed source	I. 14 milliCuries
J. Cesium 137	J. Amersham X.8 capsule in J. L. Shepherd & Associates, Inc. Model 28-5 calibrator	J. 200 milliCuries
K. Nickel 63	K. Foils contained in (Varian Model No. 03-908377-00) detector cells	K. 1 source; not to exceed 8 milliCuries per source/foil
L. Polonium 210	L. Foils contained in (NRD, Inc. Model 3C500)	L. 6 sources; not to exceed 300 microCuries per foil
M. Americium 241	M. Amersham Model X.101	M. 14 milliCuries
N. Uranium	N. Uranyl nitrate (1% aqueous)	N. 1 milliCurie

9. AUTHORIZED USE

- A. Medical use described in 10 CFR 35.100.
- B. Medical use described in 10 CFR 35.200 and Condition 20.
- C. Medical use described in 10 CFR 35.300.
- D. Medical use described in 10 CFR 35.400 and Condition 14.
- E. Medical use described in 10 CFR 35.500.
- F. Any FDA approved procedure, and J. Calibration Ventilation studies.

**RADIOACTIVE MATERIAL PERMIT
USAF RADIOISOTOPE COMMITTEE
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9. AUTHORIZED USE

continued

- I. Anatomical marker.
- K. For use in Varian gas chromatograph, Model 6000.
- L. For use in NRD, Inc. Staticmaster Tri-Stat Brush static eliminator.
- M. Marker source for nuclear medicine studies.
- N. Histologic stain of human tissue samples for diagnostic purposes.

CONDITIONS

- 10. A. The authority for permitted material in Items 7.A. - J., and M. - N. is US Nuclear Regulatory Commission (NRC) Master Materials License No. 42-23539-01AF issued to the USAF Radioisotope Committee and AFI 40-201, Managing Radioactive Materials in the USAF. The permittee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections," Part 20, "Standards for Protection Against Radiation," and Part 35, "Medical Use of Byproduct Material."
- B. The authority for permitted material in Item 7.K. is 10 CFR 31.5 and AFI 40-201, Managing Radioactive Materials in the USAF. The permittee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 30, "Rules of General Applicability to domestic Licensing of Byproduct Material," Part 31.5, "Certain Measuring, Gauging or Controlling Devices," Part 20.402, "Reports of Theft or Loss of Licensed Material," and Part 20.403, "Notifications of Incidents."
- C. The authority for permitted material in Item 7.L. is 10 CFR 31.3 and AFI 40-201, Managing Radioactive Material in the USAF. The permittee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections," Part 20, "Standards for Protection Against Radiation," Part 21, "Reporting of Defects and Noncompliance," Part 30, "Rules of General Applicability to Domestic Licensing of Byproduct Material," and Part 31.3, "Certain Devices and Equipment."
- D. For all items, the permittee shall comply with all applicable Air Force Regulations and all instructions and directives of the USAF Radioisotope Committee necessary to insure compliance. All reports and notifications required by Part 20 will be made to the USAF Radioisotope Committee Secretariat (Address: HQ AFMOA/SGPR, 8901 18th Street, Brooks AFB, TX 78235-5217; DSN 240-3331, Commercial 210-536-3331).
- 11. The permitted material shall be used only at permittee's facilities at Wright-Patterson AFB, Ohio.
- 12. A. Radiation Safety Officer (RSO): Capt William Ruck.
B. Alternate Radiation Safety Officer: Maj Gary N. Poteat.
- 13. Radioiodine use:
 - A. Only capsulated forms of iodine will be used for human use except where contra-indicated for management of a specific patient for studies authorized under 10 CFR 35.
 - B. An iodine trap will be used when working with liquid iodine solutions to prevent or minimize sudden and uncontrolled releases to the environment.

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CONDITIONS

13. continued

- C. Hood exhaust rates must be measured quarterly, following maintenance on the system, or any time there is a mechanical problem identified with the hood or exhaust system that could affect the exhausted volume. Operations involving iodine will be suspended until the hood exhaust rate has been restored if the hood flow rate drops below 85% of the baseline value established at installation and acceptance. At exhaust rates above 85% of baseline, operations will be proportionately curtailed as necessary to maintain compliance with NRC limits.
- D. Quarterly calculations or measurements of released iodine concentrations must be made and documented which show compliance with NRC limits for restricted and unrestricted areas. Calculations must use measured hood exhaust rates and, if concentrations are not measured, published release fractions from the supplier of the iodine product in use.
14. Notwithstanding limitations given in 10 CFR 35.400(d), exemption is granted for permittee use of Iridium 192 as seeds encased in nylon ribbon for the topical, interstitial, and intracavitary treatment of cancer. Permittee may deviate from the manufacturer's radiation safety and handling instructions to the extent that the instructions do not apply to the type of use proposed by the permittee.
15. In lieu of using the conventional radiation caution colors (magenta or purple on yellow background) as provided in Section 20.203(a)(1) of 10 CFR 20, the permittee is hereby authorized to label detector cells and cell baths containing permitted material and used in gas chromatography devices with conspicuously etched or stamped radiation caution symbols without a color requirement.
16. Detector cells in Item 7.K. containing permitted material shall not be opened or the sources removed from the detector cell by the permittee.
17. The permittee's Radiation Safety Committee may permit any physician to use byproduct material for medical use. The physician must meet the appropriate training and experience criteria in 10 CFR Part 35, Subpart J.
18. The permittee shall forward a copy of the authorized user physician "written directive" or "record of departure" for studies or treatments conducted under 10 CFR 35.200(c)(1) or 10 CFR 35.300(b)(1) to HQ AFMOA/SGPR within 3 working days after the prescribed departure or administration.
19. A copy of the minutes of each Radiation Safety Committee meeting shall be forwarded to the USAF Radioisotope Committee Secretariat (Address: HQ AFMOA/SGPR, 8901 18th St, Brooks AFB, Texas 78235-5217) within 45 days of the meeting.
20. The Permittee is granted permission to use Technetium 99m for the purpose of evaluating shielding integrity within diagnostic (treatment) rooms. Individual amounts for this purpose are not to exceed 50 millicuries and must only be used under the direct supervision of the Permit RSO.
21. A. (1) The sources specified in Item 7.K. shall be tested for leakage and/or contamination at intervals not to exceed 6 months. The sources specified in Item 7.L. shall be tested for leakage and/or contamination at intervals not to exceed 13 months. Any source received from another person which is not accomplished by a certificate indicating that a test has been performed within 6 months for Item 7.K. or 13 months for Item 7.L. before the transfer shall not be put into use until tested.

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CONDITIONS

21. continued

(2) Notwithstanding the periodic lead test required by this condition, any permitted 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.

B. Any source in storage and not being used need be tested. When the source is removed from storage for use or transfer to another person, it shall be tested and a report of results obtained before use or transfer.

C. The test shall be capable of detecting the presence of 0.005 microCuries of radioactive material on the test sample. If the test reveals the presence of 0.005 microCurie or more of removable contamination, the source shall be removed from service and decontaminated, repaired, or disposed of in accordance with NRC regulations and Air Force directives. A report shall be filed within 5 days of the date the leak test result is known with the USAF Radioisotope Committee. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microCuries and shall be maintained for inspection by the NRC, the USAF Radioisotope Committee, or the Medical Directorate of the Air Force Inspection Agency.

D. Test samples shall be collected by the Permittee and forwarded for evaluation to the Radioanalytical Branch of the Armstrong Laboratory (AL/OEBA, 2402 E Drive, Brooks AFB, Texas 78235-5114), an institution licensed to perform sample analysis by the NRC or an Agreement State, or any organization with a USAF Radioactive Material Permit stating it can perform sample analysis for other USAF organizations.

22. Except as specifically provided otherwise by this Permit, the possession and use of the radioactive material described in Items 6, 7, and 8 above shall be in accordance with the statements, representations, and procedures contained in:

A. Application dated 14 Aug 1990 w/Atch.

B. Letters dated:

- (1) USAF Med Cen Wright-Patterson/SGHRT Ltr, 18 Dec 1990.
- (2) USAF Med Cen Wright-Patterson/SGHRT Ltr, 30 Jan 1991.
- (3) USAF Med Cen Wright-Patterson/SGHRT Ltr, 13 Sep 1991 w/Atch (except for para 1c).
- (4) USAF Med Cen Wright-Patterson/SGHRT Ltr, 19 May 1992.
- (5) USAF Med Cen Wright-Patterson/SGHRT Ltr, 19 Aug 1992 w/Atch.
- (6) USAF Med Cen Wright-Patterson/SGHRT Ltr, 10 Sep 1992 w/Atch.
- (7) Keesler TTC Med Cen/SGHRP Ltr, 7 Oct 1992.
- (8) USAF Med Cen Wright-Patterson/SGHRT Ltr, 5 Nov 1992.
- (9) USAF Med Cen Wright-Patterson/SGHRP Ltr, 19 Nov 1992.
- (10) USAF Med Cen Wright-Patterson/SGHRP Ltr, 11 Mar 1993 w/Atch.
- (11) USAF Med Cen Wright-Patterson/SGHRP Ltr, 28 Jun 1993.
- (12) 645 Med Gp Wright-Patterson/SGHRP Ltr, 17 Feb 1994.
- (13) 645 Med Gp/SGHRP Memo, 25 Apr 1994.
- (14) 645 Med Gp/SGHRP Memo, 6 Jun 1994 w/Atch.
- (15) 645 Med Gp/SGHRP Memo, 14 Sep 1994 w/Atch.
- (16) 645 Med Gp/SGHRP Memo, 29 Sep 1994.
- (17) 74 Med Gp/SGORP Memo, 24 Oct 1994.
- (18) 74 MDG/SGORP Memo, 14 Nov 1994 w/Atch.
- (19) 74 MDG/SGORP Memo, 28 Dec 1994 w/Atch.

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CONDITIONS

22. continued

- (20) 74 MDG/SGORP Memo, 29 Dec 1994.
- (21) 74 MDG/SGORP Memo, 26 Jan 1995.
- (22) 74 MDG/SGORP Memo, 2 Mar 1995.
- (23) 74 MDOS/SGORP Memo, 20 Apr 1995.

The Nuclear Regulatory Commission's regulations and United States Air Force directives shall govern the permittee's statements in applications or letters, unless the statements are more restrictive than the regulations and directives.

Date 22 Apr 95

FOR THE USAF RADIOISOTOPE COMMITTEE SECRETARIAT

By



RICHARD M. SPEER, Maj, USAF BSC
Health Physicist
USAF Radioisotope Committee Secretariat
Office of the Surgeon General