

# **Straub**

CLINIC & HOSPITAL

RECEIVED

NOV 03 2008

DNMS

October 29, 2008

U.S. Nuclear Regulatory Commission, Region IV  
612 E.Lamar Blvd., Suite 400  
Arlington, TX 76011-4125


Subject: Notification  
NRC License No. 53-19126-01  
Docket No. 030-14529

Dear License Reviewer:

We have approved Douglas A. Prager, M.D. as an authorized user for byproduct materials listed in 10 CFR 35.100, 35.200, and 35.300. Dr. Prager is currently authorized for these uses on NRC License #53-00458-04 issued to Tripler Army Medical Center. A copy of this license is enclosed.

Please contact our Radiation Safety Consultant, Ronald Frick, at 808-373-7009 if you require additional information.

Sincerely,



Art Gladstone  
Chief Operations Officer

Enclosure

**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, 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. Department of the Army Commander, Tripler Army Medical Center</p> <p>2. ATTN: MCHK-PVR (Radiation Safety Officer) Tripler AMC, Hawaii 96859-5000</p>	<p>In accordance with letter and e-mail dated June 18, 2007, and August 16, 2007, respectively</p> <p>3. License number 53-00458-04 is amended in its entirety to read as follows:</p> <p>4. Expiration date September 30, 2011</p> <p>5. Docket No. 030-03537 Reference No.</p>	
<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Any byproduct material with atomic numbers 1 through 83, except as specified below</p> <p>B. Molybdenum-99</p> <p>C. Technetium-99m</p> <p>D. Iodine-131</p> <p>E. Xenon-133</p> <p>F. Any byproduct material with atomic numbers 1 through 92</p> <p>G. Gadolinium-153</p> <p>H. Cesium-137</p> <p>I. Depleted Uranium</p>	<p>7. Chemical and/or physical form</p> <p>A. Any, except sealed sources</p> <p>B. Any, except sealed sources</p> <p>C. Any, except sealed sources</p> <p>D. Any, except sealed sources</p> <p>E. Any, except sealed sources</p> <p>F. Sealed sources or foils</p> <p>G. Sealed sources (North American Scientific, Inc. Model MED 3601 or DuPont Merck Model NES-8412)</p> <p>H. Sealed sources (Isotope Products Laboratories Model HEG-137)</p> <p>I. Shielding</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. Not to exceed 100 millicuries per radionuclide, except for the following isotope: (See Condition 18) Yttrium-90 500 millicuries</p> <p>B. 8 curies</p> <p>C. 6 curies</p> <p>D. 1 curie</p> <p>E. 3 curies</p> <p>F. 700 millicuries</p> <p>G. 300 millicuries per housing, total possession 2 curies</p> <p>H. 30 millicuries per source, total possession 120 millicuries</p> <p>I. 999 kilograms</p>

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
53-00458-04Docket or Reference Number  
030-03537

Amendment No. 83

- |   |   |  |
|---|---|--|
| 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 |
| J. Any byproduct material permitted by 10 CFR 35.400  | J. Any brachytherapy source identified in 10 CFR 35.400 | J. 2.6 curies  |
| K. Samarium-153                                       | K. Any, except sealed sources                           | K. 300 millicuries   |

## 9. Authorized use:

- A. through E. and K. Medical research, diagnosis, and therapy. In vitro studies. Studies in laboratory animals.
- F. Calibration and reference standards
- G. For use in an ADAC Laboratories Model Vantage line source housing for SPECT cameras.
- H. For use in an ADAC Laboratories Model MCD/AC system for attenuation correction.
- I. As shielding for linear accelerators, molybdenum-99/technetium 99m generators, or in shielding blocks to be used in selected radiation therapy procedures.
- J. Any medical brachytherapy use permitted by 10 CFR 35.400.

## CONDITIONS

10. Licensed material shall be used only at the licensee's facility located at Jarrett White Road, Tripler Army Medical Center, Hawaii.
11. A. Licensed material shall be used by or under the supervision of individuals designated in writing by the Radiation Safety Committee.
- B. The Radiation Safety Officer for this license is MAJ Frank M. Fota.
- C. The Alternate Radiation Safety Officer for this license is Lou N. Shimabuku.
- D. The Authorized Nuclear Pharmacists for this license are LTC Edna Garcia-Pena and CPT Latisha T. Littleton.
12. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State.

**AUTHORIZATION TO USE RADIOACTIVE MATERIALS**

(For use of this form refer to TAMC Reg 40-37)

Date: 15 January 2007

**THRU: Radiation Safety Officer**  
Health Physics Section  
Tripler Army Medical Center**TO: Radiation Safety Committee**  
Tripler Army Medical Center**FROM: (Principal User and Organization)**  
Prager, Douglas A. (1,2,3)  
Nuclear Medicine Service  
Tripler Army Medical Center

Ph: 433-6583

Fax: 433-6255

**List of Authorized/Supervised Users****Authorized Users**Breitwieser, James (1, 2)  
Brown, Jerry M. (1,2,3)  
Delaplain, Calvin B. (1, 2, 3)  
Littleton, Latisha T.  
Garcia-Pena, Edna**Supervised Users**Akau, Bryan  
Ashcraft, James  
Clark, Willie J.  
Kawaoka, Edward  
Pandya, Jay  
Lopez, Jose A.  
Reynaldo Turciosrios  
Towne, David B.**Authorization Conditions****Human Use: Diagnostic and Therapeutic Use in Patients**

- (1) Use of unsealed byproduct material for uptake, dilution, and excretion studies IAW 10 CFR 35.100.  
(2) Use of unsealed byproduct material for imaging and localization studies IAW 10 CFR 35.200.  
(3) Use of unsealed byproduct material for therapeutic administration IAW 10 CFR 35.300.

☒ **Human Use**☒ **Non-Human Use****Maximum Activity (of each radionuclide.)**☒ **Unsealed**

Carbon-14	1.0 mCi
Chromium-51	5.0 mCi
Cobalt-57	5.0 mCi
Cobalt-58	5.0 mCi
Fluorine-18	200 mCi
Gallium-67	50.0 mCi
Indium-111	50.0 mCi *
Indium-111	1.0 Ci **
Iodine-123	3.0 mCi
Iodine-125	250 uCi
Iodine-131	600 mCi
Molybdenum-99	6.0 Ci
Phosphorus-32	50.0 mCi
Samarium-153	200 mCi
Strontium-89	50 mCi
Technetium-99m	5.0 Ci
Thallium-201	75 mCi
Yttrium-90	100 mCi

☒ **Sealed Sources**

Americium-241	15.0 mCi
Barium-133	1.0 mCi
Cesium-137	60 mCi ***
Cesium-137	1.0 mCi
Cobalt-57	50 mCi
Cobalt-60	1.0 mCi
Europium-152	0.5 uCi ****
Gadolinium-153	600 mCi
Germanium-68	50.0 mCi (Byproduct)
Germanium-68	3.0 mCi (NARM)
Radium-226	5.0 mg
Strontium-90	25 mCi

\*For imaging, localization, uptake, dilution and excretion studies.

\*\*For therapeutic use.

\*\*\*Maximum activity per source is 30 mCi (NRC License Item #N6H).

\*\*\*\*The maximum amount per housing is 300 mCi.

**Radioactive Material Use Areas**

3A-103 (Uptake Probe), 3A-104 (Pharmacy &amp; Wash Sink), 3A-105 (Dose Room), 3A-151 (Argus ADAC Single Head 1 &amp; Argus Single Head 2), 3A-153 (Triple Head Spect Picker 3000), 3A-155, 3A-156 (VERTEX ADAC), 3A-157, 3A-159 (Picker 2000), Treadmill Room (4A102A)

**Radioactive Material Storage Areas**

3A-104 (Pharmacy), 3A-102 (Storage), 3A-105 (Dose Room), 3A-156 (ADAC VERTEX), Siemens Body Scan (3A-159), 3A-005 (Storage)

**Conditions of Use (Use additional sheets where necessary)****(1) Bioassays**

- (a) Bioassays shall be performed some time between 6-72 hours of assaying or administering radiopharmaceutical doses.
- (b) Quarterly bioassays shall be performed for all rad workers as specified in TAMC REG 40-37.

**(2) Dose Calibrator - Calibrations of the Dose Calibrators will be done in accordance with the model procedure contained in NRC Regulatory Guide 10.2 - NRC Regulatory Guide 10.8 Appendix C - nationally recognized standard or the manufacturer's instructions.****(3) Sink**

- (a) A disposal log shall be maintained by the laboratory to document the amount of radioactive effluent entering the sewer system on a daily basis.
- (b) Less than 1.0 mCi radioactive material shall enter the sewer system through approved sinks per month.
- (c) Assume empty glassware contains one percent of the initial activity.

**(4) Ordering**

- (a) An HPO Number shall be obtained prior to ordering any isotopes.
- (b) Ordering of radiopharmaceuticals shall be limited to radioisotopes specified in this authorization, and in accordance with NRC Reg Guide 10.8, Appendix K.

**(5) Receipt - Package receipt will be in accordance with NRC Reg Guide 10.8, Appendices K and L.****(6) Written Directive Radiopharmaceuticals**

- (a) Any administration of greater than 30 microcuries of either I-125 or I-131.
- (b) Any therapeutic administration of a radiopharmaceutical other than I-125 or I-131.

**(7) Preparation of Written Directive Radiopharmaceuticals - Radiopharmaceuticals that require a WRITTEN DIRECTIVE will be drawn under the direct supervision of an authorized Nuclear Medicine Physician, authorized Nuclear Pharmacist, Mr. Bryan Akau, or Mr. Edward Kawaoka.****(8) Administration of Written Directive Radiopharmaceuticals - Prior to administration:**

- (a) The written directive will be signed and dated by an appropriately "Authorized User."
- (b) All females ages 12 through 60 years of age are required to have a pregnancy test within 96 hours before administration. The only exception would be a documented history of hysterectomy.
- (c) Oral revisions to the written directive are acceptable if a delay in order to provide a written directive would jeopardize patient health.
- (d) Identity of the patient shall be verified as the individual named in the written directive by more than one method.
- (e) The radiopharmaceutical shall be measured in a dose calibrator in accordance with 10 CFR 35.63.

**(9) Written directives requirements shall be reviewed following every administration of a written directive radiopharmaceutical.****(10) Shipping - Shipping of radioactive materials is not authorized.****(11) Temporary Supervised User Authorizations**

- (a) Pharmacy residents/students and radiology residents approved by the TAMC HPS are temporarily authorized to work as "supervised users" for a period not to exceed two consecutive months.
- (b) Residents and students are not allowed to work as "supervised users" until they have received the appropriate radiation safety training and dosimetry devices from the TAMC HPS.

**(12) Supervision - The degree of supervision of a "supervised user" by an "authorized user" shall be commensurate with the experience and training of the "supervised user".****Revision Summary**

**List of Authorized/Supervised Users:** Remove Supervised User : David Towne  
Add Supervised User: Jay Pandya

**Maximum Activity:**

**Radioactive Material Use Areas:**  
**Radioactive Material Storage Areas:**  
**Conditions of Use:**

**Acknowledgement of responsibilities:**

*Douglas A. Prager*  
DOUGLAS A. PRAGER, COL, MC

**Approved:**

*James A. Breitwieser for*  
JAMES A. BREITWESER, COL, MC

**Principal User****Administrative Official****Approved:**

*Francis M. Fota*  
FRANCIS M. FOTA, MAJ, MS

**Approved:**

*Christopher M. Culp*  
CHRISTOPHER M. CULP, CAPT, MC, USN

**Radiation Safety Officer****RSC Chairperson**

Authorization No.: F76.N01

Expires: 5 DEC 08

## ACCEPTANCE REVIEW MEMO (ARM)

**Licensee:** Straub Clinic & Hospital

**License No.:** 53-18126-01

**Docket No.:** 030-14529

**Mail Control No.:** 472016

**Type of Action:** Notification

**Date of Requested Action:** 10-29-2008

**Reviewer  
Assigned:**

**ARM reviewer(s):** Torres

Response	Deficiencies Noted During Acceptance Review
	<input type="checkbox"/> Open ended possession limits. Submit inventory. Limit possession. <input type="checkbox"/> Submit copies of latest leak test results. <input type="checkbox"/> Add IC L.C./Fingerprint LC, add SUNSI markings to license. <input type="checkbox"/> Confirm with licensee if they have NARM material.

**Reviewer's Initials:** \_\_\_\_\_

**Date:** \_\_\_\_\_

- ☐ Yes ☐ No Request for unrestricted release Group 2 or >. Consult with Bravo Branch.
- ☐ Yes ☐ No Termination request < 90 days from date of expiration
- ☐ Yes ☐ No Expedite (medical emergency, no RSO, location of use/storage not on license, RAM in possession not on license, other)
- ☐ Yes ☐ No TAR needed to complete action.

**Branch Chief's and/or HP's Initials:** \_\_\_\_\_ **Date:** \_\_\_\_\_

### SUNSI Screening according to RIS 2005-31

☐ Yes ☒ No **Sensitive and Non-Publicly Available** if any item below is checked

General guidance:

- \_\_\_\_\_ RAM = or > than Category 3 (Table 1, RIS 2005-31), use Unity Rule
- \_\_\_\_\_ Exact location of RAM [suite #, bldg. #, location different from mailing address] (whether = or > than Category 3 or not)
- \_\_\_\_\_ Design of structure and/or equipment (site specific)
- \_\_\_\_\_ Information on nearby facilities
- \_\_\_\_\_ Detailed design drawings and/or performance information
- \_\_\_\_\_ Emergency planning and/or fire protection systems

Specific guidance for medical, industrial and academic (above Category 3):

- \_\_\_\_\_ RAM quantities and inventory
- \_\_\_\_\_ Manufacturer's name and model number of sealed sources & devices
- \_\_\_\_\_ Site drawings with exact location of RAM, description of facility
- \_\_\_\_\_ RAM security program information (locks, alarms, etc.)
- \_\_\_\_\_ Emergency Plan specifics (routes to/from RAM, response to security events)
- \_\_\_\_\_ Vulnerability/security assessment/accident-safety analysis/risk assess
- \_\_\_\_\_ Mailing lists related to security response

**Branch Chief's and/or HP's Initials:** RTZ

**Date:** 11-26-08

This is to acknowledge the receipt of your letter/application dated  
10-29-08, and to inform you that the initial processing,  
which includes an administrative review, has been performed.

12-04-08  
DATE

☒ There were no administrative omissions. Your application will be assigned to a technical reviewer. Please note that the technical review may identify other omissions or require additional information.

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

---

The action you requested is normally processed within        days.

☐ 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** 472016.  
When calling to inquire about this action, please refer to this mail control number.  
You may call me at 817-860-8103.

Sincerely,

*Colleen Murnahan*

Licensing Assistant

BETWEEN:

License Fee Management Branch, ARM  
and  
Regional Licensing Sections

: (FOR LFMS USE)  
: INFORMATION FROM LTS  
: -----  
:  
: Program Code: 02120  
: Status Code: 0  
: Fee Category: 7C  
: Exp. Date: 20150531  
: Fee Comments:  
: Decom Fin Assur Reqd: N  
: ::::::::::::::::::::::::::::::::::::::

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: STRAUB CLINIC & HOSPITAL  
Received Date: 20081103  
Docket No: 3014529  
Control No.: 472016  
License No.: 53-18126-01  
Action Type: ~~Amendment~~ *Notification*

2. FEE ATTACHED

Amount: \_\_\_\_\_  
Check No.:       /      

3. COMMENTS

Signed *Colleen Murnahan*  
Date *11-27-08*

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered /\_/)

1. Fee Category and Amount: \_\_\_\_\_

2. Correct Fee Paid. Application may be processed for:

Amendment \_\_\_\_\_  
Renewal \_\_\_\_\_  
License \_\_\_\_\_

3. OTHER \_\_\_\_\_  
\_\_\_\_\_

Signed \_\_\_\_\_  
Date \_\_\_\_\_



# **Straub**

CLINIC & HOSPITAL

*An affiliate of Hawaii Pacific Health*

888 South King Street  
Honolulu, HI 96813



UNITED STATES POSTAGE  
\$ 00.59<sup>0</sup>  
0004924299 OCT 31 2008  
MAILED FROM ZIP CODE 96813

U.S. Nuclear Regulatory Commission  
612 E. Lamar Blvd., Suite 400  
Arlington, TX. 76011-4125

479076

7601134125 C024

