

ACCEPTANCE REVIEW MEMO (ARM)

Licensee: Hawaii Medical Center, LLC - Nuclear Medicine Dept **License No.:** 53-11966-01
Docket No.: 030-03557 **Mail Control No.:** 471302
Type of Action: Notify **Date of Requested Action:** 03-16-07
Reviewer Assigned: **ARM reviewer(s):** Torres

Response	Deficiencies Noted During Acceptance Review
	<input type="checkbox"/> Open ended possession limits. Limit possession. Submit inventory. <input type="checkbox"/> Submit copies of most recent leak test results. <input type="checkbox"/> Add - delete IC license condition. Add IC paragraph in cover letter. <input type="checkbox"/> Split license from cover letter. Add SUNSI marking to license. <input type="checkbox"/> Ask the licensee if they have any type-amount of EPAct Material.

Reviewer's Initials: _____ **Date:** _____

<input type="checkbox"/> Yes	<input type="checkbox"/> No	Unrestricted release Group 2 or >: Transfer memo to FCDB within 10 days.
<input type="checkbox"/> Yes	<input type="checkbox"/> No	Decommissioning notification should be completed within 30 days.
<input type="checkbox"/> Yes	<input type="checkbox"/> No	Termination request < 90 days from date of expiration
<input type="checkbox"/> Yes	<input type="checkbox"/> No	Expedite (medical emergency, no RSO, location of use/storage not on license, RAM in possession not on license, other)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	TAR needed to complete action.

Branch Chief's and/or Sr. HP's Initials: _____ **Date:** _____

SUNSI Screening according to RIS 2005-31

Yes No **Non-Publicly Available, Sensitive** 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 (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 Sr. HP's Initials: MIT **Date:** 3-28-07

Pre-Licensing Screening

Applicant Information:

Control No. 471302

Name: Hawaii Medical Center, LLC - Nuclear Medicine Dept	Type of Request: Other <i>Notify</i>	Program Code(s):
Location: HI	License No.: 53-11966-01	Docket No.: 030-03557

STEP 1—Radioactive Materials and Quantities Requested:

Instructions for Step 1: Complete Step 1 for all applications. If all your responses in Step 1 are "No" then do not complete Step 2 (Screening Criteria). Sign and date the completed step-sheet and add it as the sensitive and non-publicly available OAR in ADAMS. If a "yes" response is indicated for any item in Step 1, also complete Step 2. If the type of use is subject to a Security Order or the requirements for increased controls, complete Step 3 (Item A or Item B) without delay.		Yes or No
A.	The request is from a new applicant.	<i>No</i>
B.	NUREG-1556, Volume 20, Section 4.9 indicates a licensing site visit is needed for the requested type of use, e.g., (1) Type A broad scope license, (2) panoramic irradiator containing > 10000 curies, (3) manufacturers or distributors using unsealed radioactive material or significant quantities of sealed material, (4) radioactive waste brokers, (5) radioactive waste incinerators, (6) commercial nuclear laundries, and (7) any other application that in the judgement of the reviewer and cognizant supervisor involves complex technical issues, complex safety questions, or unprecedented issues that warrant a site visit.	<i>No</i>
C.	The applicant requested certain radionuclides and quantities that equal or exceed the Risk Significant Quantity (TBq) values in the table, below, that have been "highlighted" by the reviewer	<i>No</i>

Table of Risk Significant Quantities

(Category 2 Quantities, IAEA Safety Guide No. RS-G-1.9, Categorization of Radioactive Sources, August 2005)

Radionuclide	Risk Significant Quantity (TBq ¹)	Risk Significant Quantity (Ci ¹)	Radionuclide	Risk Significant Quantity (TBq ¹)	Risk Significant Quantity (Ci ¹)
Am-241	0.6	16	Pm-147	400	11,000
Am-241/Be	0.6	16	Pu-238	0.6	16
Cf-252	0.2	5.4	Pu-239/Be	0.6	16
Cm-244	0.5	14	Ra-226 ²	0.4	11
Co-60	0.3	8.1	Se-75	2	54
Cs-137	1	27	Sr-90 (Y-90)	10	270
Gd-153	10	270	Tm-170	200	5,400
Ir-192	0.8	22	Yb-169	3	81

¹ The primary values are TBq. The curie (Ci) values are for informational purposes only.
² The Atomic Energy Act, as amended by the Energy Policy Act of 2005, authorizes NRC to regulate Ra-226 and NRC is in the process of amending its regulations for discrete sources of Ra-226.

Calculations of the Total Activity or the Unity Rule are attached to document whether or not the screening criteria in Step 2 were also completed to evaluate the application. NOTE—If an amendment of an existing license is being requested, the calculations will include the previously authorized quantities for the radionuclide(s).	Yes, No, or Not Applicable (NA)
Total Activity—multiple activities are requested for a single radionuclide and the sum of the activities equals or exceeds the quantity of concern for the radionuclide	—
Unity Rule—multiple radionuclides are requested and the sum of the ratios equals or exceeds unity, e.g., [(total activity for radionuclide A) ÷ (risk significant quantity for radionuclide A)] + [(total activity for radionuclide B) ÷ (risk significant quantity for radionuclide B)] ≥ 1.0.	—

Signature and Date for Step 1

[Signature] 3/28/07

License Reviewer and Date



HAWAII MEDICAL CENTER

RECEIVED

MAR 21 2007

DNMS

March 16, 2007

U.S. Nuclear Regulatory Commission, Region IV
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-8064

Subject: **Notification**
NRC License No. 53-11966-01
Docket No. 030-03557

Dear License Reviewer:

Our Radiation Safety Committee has **approved Philip Manzanero, M.D.** as an authorized user for byproduct materials listed in 10 CFR 35.100, 35.200, and 35.300. Dr. Manzanero is currently authorized for these uses on NRC License #53-27729-01 issued to Kona Community Hospital. A copy of this license is enclosed.

RFC

If you require any additional information please contact our Radiation Safety Officer, Ronald Frick at 808-373-7009.

Sincerely,

Donald Wood
Imaging Director

Enclosure



471302

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. Kona Community Hospital</p> <p>2. 79-1019 Haukapila Street Kealakekua, Hawaii 96750</p>	<p>In accordance with letter dated September 9, 2006,</p> <p>3. License number 53-27729-01 is amended in its entirety to read as follows:</p> <p>4. Expiration date June 30, 2012</p> <p>5. Docket No. 030-35998 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. Any byproduct material permitted by 10 CFR 35.300</p>	<p>7. 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>C. 3.3 curies total (no single container to exceed 300 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 use permitted by 10 CFR 35.300.

CONDITIONS

- 10. Licensed material may be used or stored only at the licensee's facilities located at 79-1019 Haukapila Street, Kealakekua, Hawaii.
- 11. The Radiation Safety Officer for this license is Shelley Becker.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number
53-27729-01

Docket or Reference Number
030-35998

Amendment No. 06

12. Licensed material listed in Item 6 above is only authorized for use by, or under the supervision of the following individuals for the materials and uses indicated:

<u>Authorized Users</u>	<u>Material and Use</u>
Rodney Matsubara, M.D.	10 CFR 35.100 and 35.200
David W. Brown, M.D.	10 CFR 35.100, 35.200 and 35.300
George R. Ainge, M.D.	10 CFR 35.100, 35.200 and 35.300
David Camacho, M.D.	10 CFR 35.100, 35.200 and 35.300
Scott Grosskreutz, M.D.	10 CFR 35.100, 35.200 and 35.300
Harvey Nakamura, M.D.	10 CFR 35.100, 35.200 and 35.300
Michael J. Seu, M.D.	10 CFR 35.100, 35.200 and 35.300
Lori L. Wilhem, M.D.	10 CFR 35.100, 35.200 and 35.300
Robert Saito, M.D.	10 CFR 35.100, 35.200 and 35.300
Ming Yu Peng, M.D.	10 CFR 35.100, 35.200 and 35.300
Philip L. Manzanero, M.D.	10 CFR 35.100, 35.200 and 35.300
Eric Wyatt, M.D.	10 CFR 35.100, 35.200 and 35.300

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
53-27729-01Docket or Reference Number
030-35998

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 April 2, 2002
- B. Facsimile dated July 24, 2003
- C. Letter dated September 9, 2006



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: November 20, 2006By: /RA/

Rachel S. Browder, Health Physicist
Nuclear Materials Licensing Branch
Region IV
Arlington, Texas 76011

MAR 27 2007

DATE

This is to acknowledge the receipt of your letter/application dated 3-16-07, and to inform you that the initial processing, which includes an administrative review, has been performed.

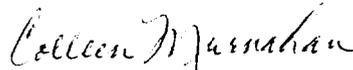
- There were no administrative omissions. Your application will be assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.
- Please provide to this office within 30 days of your receipt of this card:

The action you requested is normally processed within 90 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** 471302.
When calling to *inquire* about this action, please refer to this mail control number.
You may call me at 817-860-8103.

Sincerely,


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 EX 28
Exp. Date: 20151031
Fee Comments: CODE 21
Decom Fin Assur Reqd: N

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED HAWAII MEDICAL CENTER, LLC
Applicant/Licensee: 20070321
Received Date: 3003557
Docket No: 471302
Control No.: 53-11966-01
License No.: ~~XXXXXXXXXX~~ *Maguakala*
Action Type:

2. FEE ATTACHED
Amount:
Check No.:

3. COMMENTS
Signed *Valleen M. ...*
Date 3-27-07

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 _____



HAWAII MEDICAL CENTER

P.O. Box 30100
Honolulu, HI 96820



U.S. Nuclear Regulatory Commission, Region IV
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-8064

*53-11966-51
030-035*

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