

ACCEPTANCE REVIEW MEMO (ARM)

Licensee: Alaska Heart Institute, LLC

License No.: 50-29111-01

Docket No.: 030-34474

Mail Control No.: 471054

Type of Action: Amend

Date of Requested Action: 08-02-06

Reviewer
Assigned:

ARM reviewer(s): Torres

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

Reviewer's Initials: _____

Date: _____

- ☐ Yes ☐ No Unrestricted release Group 2 or >: Transfer memo to FCDB within 10 days.
- ☐ Yes ☐ No Decommissioning notification should be completed within 30 days.
- ☐ 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 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: RTC

Date: 8/4/06

Pre-Licensing Screening

Applicant Information:**Control No. 471054**

Name: Alaska Heart Institute, LLC	Type of Request: Amend Program Code(s):
Location: AK	License No.: 50-29111-01 Docket No.: 030-34474

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.	NO
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.	NO
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	NO

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:

RJTC 8-4-06
License Reviewer and Date



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Gunnar G. Strobel, MD

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ASTC

July 25, 2006

RECEIVED

JUL 27 2006

DNMS

United States Nuclear Regulatory Commission
Nuclear Materials Licensing Branch
Region IV
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-8064

Re: License 50-29111-01

Dear Sir/Madam:

We request that the licensed area located at 950 East Bogard, Suite 214, Wasilla, Alaska be eliminated from our license. All radioactive materials have been removed from this facility and a final decommissioning survey was conducted on July 13, 2006. Please see the enclosed documents.

If you require additional information, please call.

Sincerely,

Baxter Burton
CEO

Final Status Survey Report

Contamination Survey

Facility Alaska Heart-Wasilla
Location Nuclear Medicine Imaging Department at 950 East Bogard, Suite 214
Date July 13, 2006
By Joe Bartz, CNMT

Contamination wipe samples of 100 cm² areas were taken on the floor or counter top at each location noted on the map. Samples were measured with a Atomlab 950 spectrometer with well counter. This unit was satisfactorily performance tested on March 7, 2006.

Each sample was measured for 1 minute.
 A wide window setting of 70 - 750 keV was used.
 Efficiency for detecting Cs-137 = 16%, Co-57 = 71%.
 Minimal Detectable Activity = 0.0001 uCi or 328 disintegrations per minute
 Regulatory limit = 2200 dpm/100 cm²

Note: DPM conversion is determined using Cs-137 efficiency.
 There were no licensed materials stored in this imaging room

Location	Description	Back-ground Counts	Sample Counts	Net Counts	DPM
1	hot lab counter	168	169	1	8
2	hot lab sink	168	169	1	8
3	hot lab counter	168	169	1	8
4	hot lab floor	168	169	1	8
5	floor	168	169	1	8
6	floor	168	169	1	8
7	Injection area	168	169	1	8
8	Counter-Tech work area	168	169	1	8
9	Counter-Tech work area	168	169	1	8
10	Counter-Tech work area	168	169	1	8
11	floor	168	164	0	0
12	floor	168	164	0	0
13	floor	168	164	0	0
14	floor	168	164	0	0
15	floor-prior camera area	168	164	0	0
16	floor-prior camera area	168	164	0	0
17	floor-prior camera area	168	164	0	0
18	floor-prior camera area	168	164	0	0
19	floor	168	164	0	0
20	floor	168	164	0	0
21	floor-prior camera area	168	178	10	83
22	floor	168	178	10	83
23	floor	168	178	10	83
24	floor	168	178	10	83
25	floor	168	178	10	83

Final Status Survey Report

Radiation Survey

Facility *Alaska Heart Institute-Wasilla*
Location *Nuclear Medicine Imaging Department at 950 East Bogard, Suite 214*
Date *July 13, 2006*
By *Joe Bartz, CNMT*

Radiation survey instrument:
Ludlum Model 14C #180863 with pancake probe, calibrated February 14, 2006

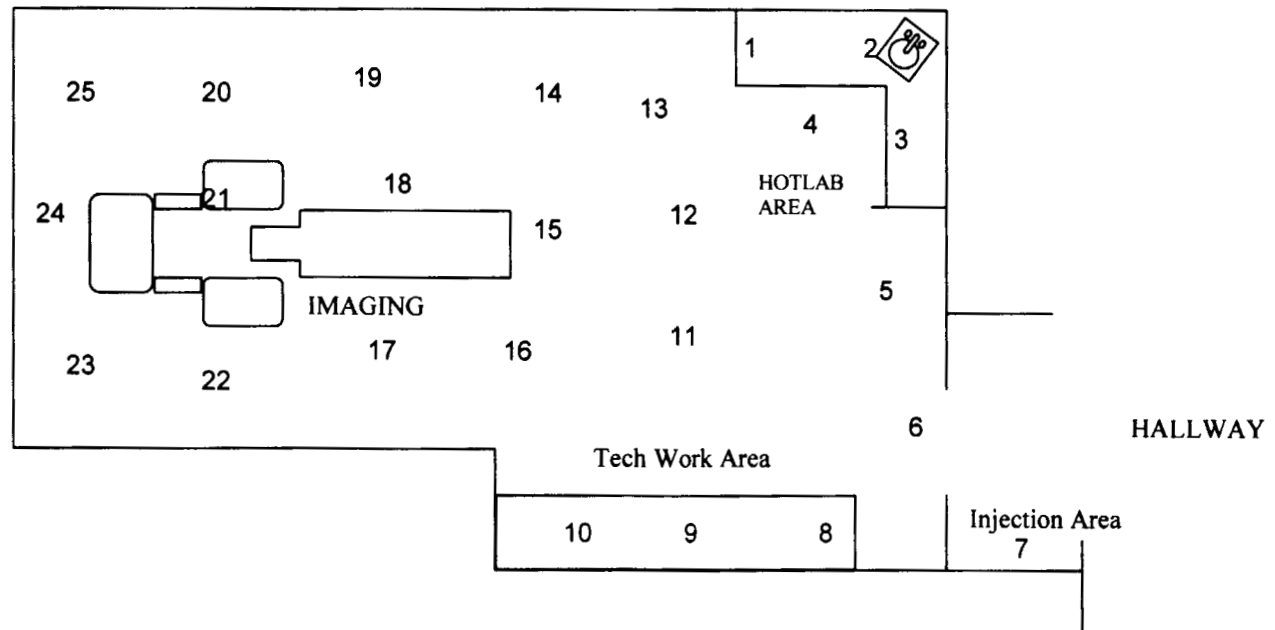
BACKGROUND: 0.02 mR/hr

Location	Description	Back-ground mR/hr	Survey mR/hr
1	hot lab counter	0.02	0.02
2	hot lab sink	0.02	0.02
3	hot lab counter	0.02	0.02
4	hot lab floor	0.02	0.02
5	floor	0.02	0.02
6	floor	0.02	0.02
7	Injection area	0.02	0.02
8	Counter-Tech work area	0.02	0.02
9	Counter-Tech work area	0.02	0.02
10	Counter-Tech work area	0.02	0.02
11	floor	0.02	0.02
12	floor	0.02	0.02
13	floor	0.02	0.02
14	floor	0.02	0.02
15	floor-prior camera area	0.02	0.02
16	floor-prior camera area	0.02	0.02
17	floor-prior camera area	0.02	0.02
18	floor-prior camera area	0.02	0.02
19	floor	0.02	0.02
20	floor	0.02	0.02
21	floor-prior camera area	0.02	0.02
22	floor	0.02	0.02
23	floor	0.02	0.02
24	floor	0.02	0.02
25	floor	0.02	0.02

Results: The contamination and radiation surveys determined that no source of radiation is present in this room.

Alaska Heart Center-Wasilla
950 East Bogard, Suite 214
Wasilla, AK
License # 50-29111-01
Nuclear Medicine Department
Final Surveys date: July 13, 2006

(numbers indicate locations of
radiation and contamination surveys)



FedEx US Airbill

Tracking Number

8553 7729 3088

Express

1 From
Date _____

Sender's Name _____ Phone _____

Company _____

Address _____

City _____ State _____ ZIP _____

2 Your Internal Billing Reference

3 To
Recipient's Name _____ Phone _____

Company _____

Recipient's Address _____
We cannot deliver to P.O. boxes or P.O. ZIP codes

Address _____
To request a package be held at a specific FedEx location, print FedEx address here

City _____ State _____ ZIP _____



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TRK# 8553 7729 3088 FORM 0200

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4a Express Package Service To add SATURDAY Delivery, see Section 6

☐ FedEx Priority Overnight ☐ FedEx Standard Overnight ☐ FedEx First Overnight

☐ FedEx 2Day ☐ FedEx Express Saver

☐ FedEx 1Day Freight* ☐ FedEx 2Day Freight ☐ FedEx 3Day Freight

☐ Next business day ☐ Second business day ☐ Third business day

☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☐ Other

5 Packaging ☒ Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☐ Other

6 Special Handling ☐ SATURDAY Delivery ☐ HOLD Weekday ☐ HOLD Saturday

☐ No ☐ Yes ☐ Dry Ice ☐ Cargo Aircraft Only

7 Payment Bill to: ☒ Sender ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

☐ No ☐ Yes ☐ Dry Ice ☐ Cargo Aircraft Only

8 NEW Residential Delivery Signature Options

☐ No Signature ☐ Direct Signature ☐ Indirect Signature

☐ Required ☐ If no one is available at recipient's address, anyone who signs for delivery

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(FOR LEMS USE)
INFORMATION FROM LTS

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Program Code: 02201
Status Code: 0
Fee Category: 7C
Exp. Date: 20120930
Fee Comments:
Decom Fin Assur Reqd: N
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**FedEx** US Airbill  
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d Overnight 11 FedEx First Overnight  
11 FedEx First Overnight  
delivery to select for more.

Saver

Items, see Section 6 Packages over 150 lbs.  
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11 FedEx 3Day Freight  
first business day

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Total Packages Total Declared Value\* Total Weight Total Charges

Your liability is limited to \$100 unless you declare a higher value. See back for details.

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