

## ACCEPTANCE REVIEW MEMO (ARM)

Licensee: Alaska Heart Institute, LLC

License No.: 50-29111-01

Docket No.: 030-34474

Mail Control No.: 471492

Type of Action: Amend

Date of Requested Action: 08-23-07

Reviewer Assigned: Roberto Torres

ARM reviewer(s): Cook

| Response | Deficiencies Noted During Acceptance Review  |
|----------|--|
|          | [ ] Add - delete IC license condition. Add IC paragraph in cover letter.<br>[ ] Split license from cover letter. Add SUNSI marking to license.<br>[ ] Ask the licensee if they have any type-amount of EPAct Material. |
|          |  |

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: RITC

Date: 11-9-07

## Pre-Licensing Screening

### Applicant Information:

Control No. 471492

|                                   |  |                       |
|-----------------------------------|--|-----------------------|
| Name: Alaska Heart Institute, LLC | Type of Request: Amend<br>Program Code(s): 02201 |                       |
| Location: AK                      | License No.: 50-29111-01                         | Docket No.: 030-34474 |

### STEP 1—Radioactive Materials and Quantities Requested:

|   |  |              |
|---|--|--------------|
| <b>Instructions for Step 1: Complete Step 1 for all applications.</b> 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<br>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) <sup>1</sup> | Risk Significant Quantity (Ci) <sup>1</sup> | Radionuclide        | Risk Significant Quantity (TBq) <sup>1</sup> | Risk Significant Quantity (Ci) <sup>1</sup> |
|--------------|--|---|---------------------|--|---|
| 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 <sup>2</sup> | 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  |

<sup>1</sup> The primary values are TBq. The curie (Ci) values are for informational purposes only.  
<sup>2</sup> 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.<br><b>NOTE—If an amendment of an existing license is being requested, the calculations will include the previously authorized quantities for the radionuclide(s).</b> | Yes, No, or<br>Not Applicable<br>(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:

  
 License Reviewer and Date

PC



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August 23, 2007

RECEIVED

AUG 28 2007

DNMS

Jacqueline Cook, Health Physicist  
US Nuclear Regulatory Commission  
Region IV  
611 Ryan Plaza Drive, Suite 400  
Arlington, TX 76011-8064

Re: License No.: 50-29111-01

Dear Ms. Cook,

This letter is an amendment request to change our radiation safety officer.

1. The current RSO is Alan E. Skolnick, M.D.
2. We have appointed Mark A. Selland, M.D. to replace Dr. Skolnick as the RSO. Dr. Selland is currently listed as an authorized user on our license.

Thank you for your consideration.

Sincerely,

Baxter Burton, J.D.  
CEO

:(FOR LFMS 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
.....

```

```
: Decom Fin Assur Req: N_____
```

```
: Decom Fin Assur Req: N_____
```

- ```

.....
Program Code: 02201
Status Code: 0
Fee Category: 7C
Exp. Date: 20120930
Fee Comments:
Decom Fin Assur Reqd: N
.....

```

- ```
: Decom Fin Assur Req: N_____
```

- Signed Allen M. Anderson  
Date 9-05-07

Signed Allen M. Anderson  
Date 9-05-07

- Signed Allen M. Anderson  
Date 9-05-07