ACCEPTANCE REVIEW MEMO (ARM)

Licensee:	University of Fairbanks, Alaska	License No.: 50-02430-07
Docket No.:	030-01179	Mail Control No.: 471123
Type of Action:	Amend	Date of Requested Action: 09-18-06
Reviewer Assigned:	RacheL	ARM reviewer(s): torres

Response	Deficiencies Noted During Acceptance Review
,	 Open ended possession limits. Limit possession. Submit inventory. Submit copies of most recent leak test results. Add - delete IC license condition. Add IC paragraph in cover letter. Split license from cover letter. Add SUNSI marking to license. Ask the licensee if they have any type-amount of EPAct Material.
N	Ask RSO if she wants to remove the authorization to possess gauges. Nes, Shedoes. See Telecom - 10/15/06.

Reviewer's Initi	ials: <u>1960</u>	Date:	12/7/06
□Yes □No	Unrestricted release Group 2 or >: Transfer memo	to FCDB w	ithin 10 days.
□Yes □ No	Decommissioning notification should be completed	within 30 c	lays.
□Yes □No	Termination request < 90 days from date of expirat	on	
□Yes □No	Expedite (medical emergency, no RSO, location of license, RAM in possession not on license, other)	use/storag	e not on
□Yes □No	TAR needed to complete action.		
Branch Chief's	s and/or Sr. HP's Initials: Da	ate:	

	SUNSI Screening according to RIS 2005-31				
□Yes IINo	Non-Publicly Available, Sensitive if any item below is checked				
General guidar	nce:				
RAM = or > than Category 3 (Table 1, RIS 2005-31), use Unity Rule RAM = or > than Category 3 (Table 1, RIS 2005-31), use Unity Rule RAM = or > than Category 3 or not) RAM = or > than Category 3 or not) RAM = or > than Category 3 or not) RAM = or > than Category 3 or not) RAM = or > than Category 3 or not) RAM = or > than Category 3 or not) RAM = or > than Category 3 or not) RAM = or > than Category 3 or not) RAM = or > than Category 3 or not) RAM = or > than Category 3 or not) RAM = or > than Category 3 or not) RAM = or > than Category 3 or not) RAM = or > than Category 3 or not) RAM = or > than Category 3 or not) RAM = or > than Category 1 or performance information RAM = or > than Category 1 or performance information RAM = or > than Category 1 or performance information RAM = or > than Category 1 or performance information RAM = or > than Category 1 or performance information RAM = or > than Category 1 or performance information RAM = or > than Category 1 or performance information RAM = or > than Category 1 or performance information					
F R R E E	nce 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) //ulnerability/security assessment/accident-safety analysis/risk assess Mailing lists related to security response				
Branch Chief's	s and/or Sr. HP's Initials: Date:				

471123 MLOG3420261

Pre-Licensing Screening

Applicant Information:

Control No. 471023

Name: University of Fairbanks,	Type of Request: Amend					
Alaska	Program Code(s):					
Location: AK	License No.: 50-02430-07	Docket No.: 030-01179				

STEP 1-Radioactive Materials and Quantities Requested:

Instructions for Step 1: <u>Complete Step 1 for all applications</u> . 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.					
Α.	The request is from a new applicant.	N			
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.	N			
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	N			

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		
lr-192	0.8	22	Yb-169	3	81		

The primary values are TBq. The curie (Ci) values are for informational purposes only.
 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	et and the second
Unity Rulemultiple radionuclides are requested and the sum of the ratios equals or exceeds unity, e.g.,[(total activity for radionuclide A) \div (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:

101

License Reviewer and Date

U.S. NUCLEAR REGUL	Date: (October 17, 2	2006			
TELEPHONE CONVI						
Mail Control 471123 or Report No(s):	License No.: 50-02430-07	[Docket No.	030-01179		
Name of Licensee:	Univ of Alaska, Fairbanks					
Contact: Telephone Number:	Secretary for Dr. Henrichs 907-474-7464					
Subject:	Telecom for clarification to le	etter date	d 9/12/06			
Summary: I called Dr. Henrichs, and the secretary took my message. I requested Dr. Henricks to return my call regarding her letter dated 9/12/06. It was not clear whether the letter served as notification only and the record would serve as part of the decommissioning records - or whether it was a request to remove density gauge authorization from the license.						
Rachel S. Browder	/RA/			10/17/06		

10 18/06 DR. Susan Henrichs returned my Celephone call on 10/18/06. She claified that she wasted to remove the authorization for the Troxler gauges [authorized Use 9. C. and 9. D.] from the license. She wanted to retain the authorized use for CPN gauges which are disted in Item I. and J.



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RECEIVED

The Graduate School

304 Signers' Hall, P.O. Box 757560, Fairbanks, Alaska 99775-7560

DNMS

September 12, 2006

Nuclear Materials Licensing Section U.S. Nuclear Regulatory Commission, Region IV 611 Ryan Plaza Drive, Suite 300 Arlington TX 76011

Licensing Section Staff:

This letter is to inform you of changes in the sealed source inventory of the University of Alaska Fairbanks, under our Type B Broad Scope license, # 50-02430-07, docket # 030-01179. The following soil moisture gauges have been disposed:

Source Identification	Device Identification	Quantity (millicuries)	as of Date
Troxler Electronic (Source S/N AM-019)	Model 105A-1257 SN H-1638	100	9/1964
Troxler Electronic (Source S/N AM-001)	Model 217-104A	100	prior to 1979
Troxler Electronic (Source S/N AM-093) S/N CPN-131	Model 1257 S/N 394	110	4/1971
Troxler Electronic Model 3220 S/N 397	none	10	7/1983

The above-listed gauges were shipped to:

Qal-Tek Associates 3998 Commerce Circle Idaho Falls, ID 83401 Phone (208) 523-5557 Fax (208) 524-8470 http://www.galtek.com/index.html

License Number: 11-27610-01 Expires: December 31, 2008

Sincerely,

Susan M. Henrichs Radiation Safety Officer

M 471123

Signed	3. OTHER	2. Correct Fee Paid. Application may be processed for: Amendment Renewal License	1. Fee Category and Amount:	B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered //)	Date 4/26/06 Welles	3. COMMENTS	2. FEE ATTACHED Amount: Check No.:	1. APPLICATION ATTACHED Applicant/Licensee: ALASKA, UNIVERSITY OF FAIRBANKS Beceived Date: 2006091179 Control No:: 3001179 License No:: 50-02430-07 Action Type: Amendment	A. REGION	LICENSE FEE TRANSMITTAL	ETWEEN: License Fee Management Branch, ARM Regional Licensing Sections Regional Licensing Sections High Armony Code: 0 Fee Category: EX 3L Exp. Date: 20100331 Fee Comments: 170.11(A)(4) Exp. Date: 10.11(A)(4) Exp. Date: 10.11(A)(A)(4) Exp. Date: 10.11(A)(A)(A)(A)(A)(A)(A)(A)(A)(A)(A)(A)(A)(
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