# ACCEPTANCE REVIEW MEMO (ARM)

Licensee:	Dept of HHS, NI of Diabetes & Digestive & Kidney Diseases	License No.: 02-13990-01
Docket No.:	030-01211	Mail Control No.: 471283
Type of Action:	Amend	Date of Requested Action: 02-22-07
Reviewer Assigned:		ARM reviewer(s): Torres

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

Reviewer's Initials:

Date:

Branch Chief's	and/or Sr. HP's Initials: Date:		
□Yes □No	TAR needed to complete action.		
□Yes □No	Expedite (medical emergency, no RSO, location of use/storage not on license, RAM in possession not on license, other)		
□Yes □No	Termination request < 90 days from date of expiration		
□Yes □No	Decommissioning notification should be completed within 30 days.		
□Yes □No	Unrestricted release Group 2 or >: Transfer memo to FCDB within 10 days.		

	SUNSI Screening according to RIS 2005-31
TYes ANO	Non-Publicly Available, Sensitive if any item below is checked
General guidar	
	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
E	Emergency planning and/or fire protection systems
F N S F 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 and/or Sr. HP's Initials: Date: Date:

#### **Pre-Licensing Screening**

-471200	Co	ntrol	No.	471283
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Applicant Information:	Control No. 471283	
Name: Dept of HHS, NI of Diabetes & Digestive & Kidney Diseases	Type of Request: Amend Program Code(s):	
Location: AZ	License No.: 02-13990-01	Docket No.: 030-01211

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

(Screet "yes" re	ctions 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 ning Criteria). Sign and date the completed step-sheet and add it as the sensitive and non-publicly available OAR in ADAMS. If a esponse 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 ments for increased controls, complete Step 3 (Item A or Item B) without delay.	Yes or No
Α.	The request is from a new applicant.	N
В.	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 <b>"highlighted"</b> by the reviewer	N

#### Table of Risk Significant Quantities

(Categor	y 2 Quantities, IAEA Sa	fety Guide No. RS-G-1.	9, Categorization of Rad	ioactive Sources, Augus	st 2005)
adionuclide	Risk Significant	Risk Significant	Radionuclide	Risk Significant	Risk Signi

Radionuclide	Risk Significant Quantity (TBq <sup>1</sup> )	Risk Significant Quantity (Ci <sup>1</sup> )	Radionuclide	Risk Significant Quantity (TBq1)	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
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. 1 2

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 Rulemultiple 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:

3-8-07

License Reviewer and Date



National Institutes of Health National Institute of Diabetes and Digestive and Kidney Diseases 4212 North 16th Street Phoenix, Arizona 85016 (602) 263-1556

MAR - 5 2007

February 22, 2007

DNMS

Regional Administrator US Nuclear Regulatory Commission Region IV, Material Radiation Protection Section 611 Ryan Plaza Dr, Ste 400 Arlington, TX 76011-4005

RE: License #02-13990-01

Dear Sirs:



This letter is a request to amend our license. We request removal of items 6A (chromium 51), 6B (iodine-125) and 6E (phosphorus-32) from our list of licensed materials. In addition, we wish to remove Michal Prochazka as an authorized user and replace him with Shannon Parrington as an authorized user of all licensed materials on the requested revised license. A copy of the Radioisotope Training and Experience form for Shannon Parrington is enclosed.

Thank you for your consideration of this matter.

Sincerely,

DMMA

David M Mott, PhD Radiation Safety Officer Obesity and Diabetes Clinical Research Section PECRB, NIDDK, NIH, DHHS Tel 602-200-5300 Fax 602-200-5335 Email <u>dmott@mail.nih.gov</u>

Richard M Bryan Administrative Officer Phoenix Epidemiology and Clinical Research Branch NIDDK, NIH, DHHS Tel 602-400-6588 Fax 602-253-4140 Email mbryan@mail.nih.gov

# **Radiation Training and Experience**

### Candidate

Shannon Parrington

# **Date** 2/22/07

# Training

Field of Training	Location and Dates	Lecture/Laboratory (hrs)	
Basic Radiation Protection Course	University of Arizona, 9/10/01	Lecture, 4.5 hours	
Radiation Control Officer, Elizabeth Vierling Laboratory	University of Arizona, 2002- 2003 2 years		
Radiation Safety	ODCRS, PECRB, NIDDK, NIH, Phoenix, Arizona, 7/03- present		

# Isotopes

Isotope	Maximum Amount	Where Experience Gained	Duration of Experience	Type of Use
<sup>3</sup> H	200µCi-5mCi	University of Arizona	2002-2003	Waste Management
<sup>3</sup> H	5mCi	PECRB, NIH, Phoenix, Arizona	2003-present	Analysis of Hepatic Glucose Production; Metabolic (Tracer) Assays
<sup>14</sup> C	5mCi	University of Arizona	2002-2003	Waste Management
<sup>14</sup> C	250µCi	PECRB, NIH, Phoenix, Arizona	2003-present	Enzymatic Assays
<sup>32</sup> P	100µCi-5mCi	University of Arizona	2002-2003	Waste Management
<sup>35</sup> S	1mCi-5mCi	University of Arizona	2002-2003	Waste Management

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DATE

This is to acknowledge the receipt of your letter/application dated  $\frac{2 \cdot 2 \cdot 2 \cdot 2 \cdot 2}{2 \cdot 2 \cdot 2}$ , 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 <u>90</u> 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**  $\frac{471283}{$ When calling to inquire about this action, please refer to this mail control number. You may call me at 817-860-8103

Sincerely,

bellen marnahan

NRC FORM 532 (RIV) (10-2006)

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Licensing Assistant

	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 //)	Signed Caller Muchan Date 3-8-07	<ul> <li>2. FEE ATTACHED</li> <li>Amount: Check No.:</li> <li>3. COMMENTS</li> </ul>	1. APPLICATION ATTACHED Applicant/Licensee: HEALTH & HU Received bate: 20070305 Docket No: 3001211 Control No.: 471283 License No.: 02-13990-01 Action Type: <del>Termination</del>	A. REGION	LICENSE FEE TRANSMITTAL	BETWEEN: License Fee Management Branch, ARM and Regional Licensing Sections
e e								HEALTH & HUMAN SERVICES, DEPT. OF 20070305 3001211 471283 02-13990-01 <del>Termination</del> <i>A<sub>JN</sub> EN</i> D		

20 4212 N 16th St Rm 541 National Institutes of Health Obesity & Diabetes Clinical Research Section Department of Health & Human Services Phoenix AZ 85016 USA OFFICIAL BUSINESS PENALTY FOR PRIVATE USE, \$300 C. 13940 01 SC 7601184005 0001 Kegional administrator US Muclean Regulatory Commission Region IV, Material Radiation Retestion Section 611 Ryan Alaze Dr., Ste. 400 Urligton, TX 76011-4005 հաեհոնունունունեսնունենունունո 2 LER . ₹ 1 2 f **3** 474 1 (NYA) 1 1 2 4 4 \$0.300 AL MAR