Hill, Carol

From: Suzy Arnette <suzyarnette@boisestate.edu>
Sent: Monday, July 11, 2016 1:13 PM
To: Hill, Carol
Subject: [External_Sender] Amendment Request for License 11-27388-01 - Boise State University
Attachments: Jaques_RAM_experience.pdf; NRC Amendment 25 - Cover Letter 2016.docx

Good afternoon Ms. Hill,

Attached you will find a cover letter outlining a request to amend Boise State University's license 11-27388-01 accompanied by associated documentation.

Have a great day and thank you for your time.

Cheers,
Suzy

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Suzy Arnette, PhD
Interim Director, Environmental Health, Safety and Sustainability
Radiation Safety Officer
Boise State University
Environmental Health, Safety, and Sustainability
Phone: 208.426.3906
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PUBLIC
☐ Immediate Release
☑ Normal Release

NON-PUBLIC
☐ A.3 Sensitive-Security Related
☐ A.7 Sensitive Internal
☐ Other:

Reviewer: MH Date: 7/26/16

ML 5914855

BOISE STATE UNIVERSITY

Environmental Health & Safety 1910 University Drive Boise, Idaho 83725-1826

Suzy Arnette, PhD
Interim Director of Environmental Health, Safety and Sustainability
Radiation Safety Officer
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July 11, 2016

US Nuclear Regulatory Commission, Region IV
612 East Lamar Boulevard, Suite 400
Arlington, TX 76012-4125

RE: NRC License 11-27388-01 Amendment – New authorized user and removal of an authorized user

Boise State University is seeking to amend its radioactive materials license number 11-27388-01, in the following manner:

1. Addition of a new authorized user (Dr. Brian Jaques). The statement of training and work for Dr. Jaques is attached. Dr. Jaques will be taking over responsibility for the Advanced Materials Lab (Micron Engineering Center rooms 212 and 213 located at 1020 Manitou Ave) and the materials listed in Condition 11G. under Dr. Darryl Butt.

2. Removal of Dr. Darryl Butt as an authorized user. Dr. Butt remains an affiliate faculty member with the university, but is primarily employed by the University of Utah.

Please let me know if you need any additional information or have any questions.

Sincerely,

Suzanne M P Arnette

Suzanne Arnette, PhD
Laboratory Safety Officer
Radiation Safety Officer

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Statement of Training & Experience in Radiation Work

1. Name Brian Jaques Mail Stop 2090

   Title/Position Sr Research Engineer Telephone 426.5376

   Research Synthesis and fabrication on depleted Uranium fuels

   Authorized person who will supervise your work I am lab supervisor

2. Education (List degrees, major subject, emphasis, date, and school)
   BSME, 2006, BSU || PhD MSE; 2015, BSU: Reaction kinetics of actinide materials (depleted)
   MSMSE, 2008, BSU: Synthesis and sintering of Uranium Nitride (depleted)

3. Formal training in Radiation Safety

   Provide a statement in the following areas. Include name of person or institution providing the training. Provide duration and date.

   a) Principles and Practices of Radiation Protection. Cal Grillis, Matt Lundgren, Suzy Arnette, Darryl Butt
   Where BSU
   Duration 4 hr training
   When June 2006 - Current

   b) Characteristics of Ionizing Radiation Cal Grillis, Matt Lundgren, Suzy Arnette, Darryl Butt
   Where BSU
   Duration 4 hr training
   When June 2006 - Current

   c) Radioactivity Detection Instrumentation and Monitoring Techniques. Cal Grillis, Matt Lundgren, Suzy Arnette, Darryl Butt
   Where BSU
   Duration 4 hr training
   When June 2006 - Current

   d) Units of Radiation Dose and Quantities Cal Grillis, Matt Lundgren, Suzy Arnette, Darryl Butt
   Where BSU
   Duration 4 hr training
   When June 2006 - Current

3. Formal training in Radiation Safety (continued)

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Provide a statement in the following areas. Include name of person or institution providing the training. Provide duration and date.

e) Biological Hazards of Exposure to Radiation (appropriate to the types and forms of radioactive material to be used) Cal Gillis, Matt Linckgren, Suzy Arnette, [redacted] Darryl Butt

Where BSU
Duration 4 hr training
When June 2006 - Current

4. Radiation work (Describe briefly your anticipated work and list the types and quantities of licensed material to be used at Boise State University)

Synthesis, fabrication, sintering, and corrosion of depleted uranium based Oxide, Nitride, carbide, and metallic fuel forms. Majority of research will be conducted in 10-100 gram quantities. 1-2 kgs of D-U (or natural uranium) may be stored on site.

5. Describe your Hands-on Use of Radioactive Materials

Radionuclide	Maximum Experimental Activity Used	Location Used	Experience (years)	Summarize Experimental Procedures Used
U 238	<100 mrem/hr	BSU	10 yrs	Oxides, Nitrides, Carbide, Metal nuclear fuel fab

6. Statement

This information is correct to the best of my knowledge. I agree to comply with the Radioactive Materials Management Manual and Radiation Safety Policies of Boise State University.

Signature [signature] Date 07 June 2016

Print Name Brian J Jaques

No 5914855