## Murnahan, Colleen

From: Sent: Cal Gillis [cgillis@boisestate.edu] Tuesday, April 12, 2011 11:03 AM

To:

Murnahan, Colleen

Subject:

Re: Boise State University Materials License Amendment

Attachments:

Boise State Acknowledgement Postcard from NRC.pdf

### Colleen,

I am attaching a scan of the acknowledgement postcard we received from you with the mail control number. I thought this was for the amendment application sent Aug. 3, 2010.

Cal

On Tue, Apr 12, 2011 at 8:05 AM, Cal Gillis < cgillis@boisestate.edu > wrote:

Hello Colleen,

I am resending the original amendment email and the March 25, 2010 email regarding Boise State University's Materials License amendment.

Cal

----- Forwarded message -----

From: Cal Gillis < cgillis@boisestate.edu>

Date: Fri, Mar 25, 2011 at 3:53 PM

Subject: Fwd: Boise State University Materials License Amendment

To: "Murnahan, Colleen" <<u>colleen.murnahan@nrc.gov</u>> Cc: "Lundgren, Matt" <<u>MattLundgren@boisestate.edu</u>>

### Hello Colleen.

As per my phone inquiry earlier this week, I am forwarding the amendment submitted in August 2010. We received a post card from you indicating receipt August 23 with no administrative omissions. The mail control number was 573547. Normally when these amendments are completed we receive an updated copy of our Material License. Boise State has not received any word on this amendment, please advise as to the status. If this amendment has not been processed, we have additional items to amend. Please advise as to whether we should send the additional amendment items as an addendum to this amendment or a send a new amendment. Your help is appreciated.

Cal Gillis

Calvin W. Gillis, REHS Radiation Safety Officer Boise State University 1910 University Drive, MS 1139 Boise, ID 83725-1139

Phone: 208-426-5404

Email: cgillis@boisestate.edu

----- Forwarded message -----

From: Cal Gillis < cgillis@boisestate.edu>

Date: Tue, Aug 3, 2010 at 3:01 PM

Subject: Boise State University Materials License Amendment

To: "Murnahan, Colleen" <<u>colleen.murnahan@nrc.gov</u>> Cc: "Lundgren, Matt" <MattLundgren@boisestate.edu>

## Hello Ms. Murnahan,

Attached is a cover letter, form 313, request for amendment and a statement of training and experience for amendments to Boise State University's Materials License (11-27388-01). Please let me know if you need additional information or if you want me to forward a hard copy by mail.

Calvin W. Gillis, REHS Radiation Safety Officer Boise State University 1910 University Drive, MS 1826 Boise, ID 83725-1826

Phone: (208) 426-3999

email: cgillis@boisestate.edu



## Public Safety, Risk Management, & Transportation 1910 University Drive, MS 1826 Boise, Idano 83725

Environmental Health & Safety

Calvin W. Gillis, REHS Manager, Environmental Health & Safety Phone: 208-426-3999

Email: cgillis@boisestate.edu

August 3, 2010

Colleen Murnahan, Licensing Assistant Nuclear Materials Licensing Branch U.S. Nuclear Regulatory Commission, Region IV 612 E. Lamar Boulevard, Suite 400 Arlington, TX 76011-4125

RE: Amendment to Boise State University – License # 11-27388-01

Dear Ms. Murnahan:

This cover letter is to request amendment to Boise State University's materials license number 11-27388-01. Attached is a Form 313 with additional pages detailing the specific amendments requested. In summary Boise State University is requesting the following changes to our NRC license:

- Remove Authorized Users
- Change of Radiation Safety Officer (Statement of Training & Experience attached)
- Authorization to perform leak tests and sample analysis of our Nickel-63 sources.

Sincerely.

Calvin Gillis

Radiation Safety Officer

Enclosure

### NRC FORM 313

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120

EXPIRES: 3/31/2012

(3-2009) 10 CFR 30, 32, 33, 34, 35, 36, 39, and 40 Estimated burden per response to comply with this mandatory collection request: 4.3 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

APPLICATION FOR MATERIALS LICENSE INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW. APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH: YOU ARE LOCATED IN: ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEID OFFICE OF FEDERAL & STATE MATERIALS AND APPLICATIONS TO: ENVIRONMENTAL MANAGEMENT PROGRAMS DIVISION OF MATERIALS SAFETY AND STATE AGREEMENTS LLS. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555-0001 MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION III ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS: 2443 WARRENVILLE ROAD, SUITE 210 LISUE II 60532-4352 IF YOU ARE LOCATED IN: ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH UTAH, WASHINGTON, OR WYOMING, SEND APPLICATIONS TO: CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO: NUCLEAR MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION IV LICENSING ASSISTANCE TEAM DIVISION OF NUCLEAR MATERIALS SAFETY U.S. NUCLEAR REGULATORY COMMISSION, REGION I 612 E. LAMAR BOULEVARD, SUITE 400 475 ALLENDALE ROAD ARLINGTON, TX 76011-4125 KING OF PRUSSIA, PA 19406-1415 PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S.NUCLEAR REGULATORY COMMISSION JURISDICTIONS. THIS IS AN APPLICATION FOR (Check appropriate item) 2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code) A. NEW LICENSE **Boise State University** 1910 University Drive, MS 1826 B. AMENDMENT TO LICENSE NUMBER 11-27388-01 Boise, ID 83725-1826 C. RENEWAL OF LICENSE NUMBER 3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED 4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION 1910 University Drive Calvin W. Gillis Boise, ID 83725-1826 TELEPHONE NUMBER (208) 426-3999 SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE. 5. RADIOACTIVE MATERIAL a. Element and mass number, b. chemical and/or physical form; and c. malximum amount PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED. which will be possessed at any one time. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR 8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS. TRAINING EXPERIENCE 9 FACILITIES AND EQUIPMENT. 10 RADIATION SAFFTY PROGRAM 12. LICENSE FEES (See 10 CFR 170 and Section 170.31) 11. WASTE MANAGEMENT. AMOUNT ENCLOSED FEE CATEGORY 13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39, AND 40, AND THAT ALL INFORMATION CONTANED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF. WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION. CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE SIGNATURE DATE 08/03/2010 Calvin W. Gillis, Radiation Safety Officer FOR NRC USE ONLY TYPE OF FEE FEE LOG FEE CATEGORY AMOUNT RECEIVED CHECK NUMBER COMMENTS 5 APPROVED BY DATE 574900

# Statement of Training & Experience in Radiation Work

Title/Position_Laboratory Safety Officer_	Telephone 208,426,3906
Research_N/A	
Authorized person who will supervise yo	ur work_N/A
Education (List degrees, major subject, er B.S. Chemical Engineering, 1999, Univ	ersity of Minnesota – Twin Cities
Provide a statement in the following areas providing the training. Provide duration a	
a) Principles and Practices of Rac	diation Protection.
Where _Corixa Corporation – Radiation Duration_2 hours	
When_2000	
Where Engelhardt & Associates – 3 Da	
Duration_24 hoursWhen_2001	
Where_Fred Hutchinson Cancer Resear Duration_8 hours	ch Center – Radiation Safety Course
When_2005	_
Where Boise State University – Radiation 2 hours	
W/hen 2010	
When_2010	
	liation
b) Characteristics of Ionizing Rac	
	Safety Training

h 574900

Where _Engelhardt & Associates – 3 Day Radiation Safety Course
Duration_24 hours
When_2001
Where_Fred Hutchinson Cancer Research Center – Radiation Safety Course  Duration_8 hours When_2005
Where_Boise State University – Radiation Safety Course Duration_2 hours
When_2010
c) Radioactivity Detection Instrumentation and Monitoring Techniques.
Where _Corixa Corporation — Radiation Safety Training  Duration_2 hours When_2000
Where _Engelhardt & Associates – 3 Day Radiation Safety Course
Where_Fred Hutchinson Cancer Research Center – Radiation Safety Course  Duration_8 hours When_2005
Where_Boise State University – Radiation Safety Course  Duration_2 hours When_2010
d) Units of Radiation Dose and Quantities
Where _Corixa Corporation — Radiation Safety Training  Duration _ 2 hours When _ 2000
Where _Engelhardt & Associates – 3 Day Radiation Safety Course Duration_24 hours When_2001
Where_Fred Hutchinson Cancer Research Center – Radiation Safety Course  Duration_8 hours When_2005

Where_Boise State University – Radiation Safety Course Duration_2 hours When_2010
Formal training in Radiation Safety (continued)
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)
Where _Corixa Corporation – Radiation Safety Training Duration_2 hours When_2000
Where Engelhardt & Associates – 3 Day Radiation Safety Course  Duration 24 hours  When 2001
Where_Fred Hutchinson Cancer Research Center – Radiation Safety Course  Duration_8 hours When 2005

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

Where Boise State University – Radiation Safety Course

Take on Radiation Safety Officer duties which will include: receiving and surveying shipments, taking inventory of University materials, performing radiation safety surveys, performing/assessing spill clean up, and handling waste materials.

5. Describe your Hands-on Use of Radioactive Materials

Duration 2 hours

When 2010

Since 1999, I have been handling radioactive material vials for inventory, conducting contamination surveys, performing spill cleanup, decontaminating equipment and surfaces, and handling radioactive waste. My experience involves small scale laboratory quantities mostly with the following isotopes: 3-Hydrogen, 32-Phosphorus, 51-Chromium, 63-Nickel, 125-Iodine, 131-Iodine and depleted uranium. In addition while at the Corixa Corporation, I presented the radiation safety training for new users and coordinated the dosimetry program and survey instrument calibration.

3.

#### 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 The Date 08.02.10

Print Name Motther R Lundofun

## **Request for Amendment to Materials License # 11-27388-01**

Amend 11.B. Please remove James Long, Ph.D. (retired); James Munger, Ph.D. (no use); Susan Shadle, Ph.D. (no use).

Amend 12. Please remove Calvin W. Gillis as the RSO and replace with Matthew R. Lundgren. A statement of training and experience for Matthew R. Lundgren is attached.

Amend 14. Boise State University is seeking authorization to perform leak tests and sample analysis of our Nickel-63 foils (6.J). We will implement the model leak test program published in Appendix M to NUREG-1556, Vol. 4, 'Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Fixed Gauge Licenses,' dated October 1998. Leak test sample analysis of the sealed neutron source (6.T) will be conducted by persons specifically licensed by NRC to perform those services.

Boise State University has a Beckmann Coulter LS6500 liquid scintillation counter capable of detecting 0.005 microcurie (185 Becquerels) of Nickel-63.

APR	2	6	20	111
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•	s is to acknowledge the receipt of your letter/application dated  4/12/// , and to inform you that the initial processing, ich includes an administrative review, has been performed.	DATE
<b>2</b>	There were no administrative omissions. Your application will be asserviewer. Please note that the technical review may identify other or additional information.	signed to a technical nissions or require
	Please provide to this office within 30 days of your receipt of this care	d:
Th		
rne	action you requested is normally processed within days.	
	A copy of your action has been forwarded to our License Fee & According Branch, who will contact you separately if there is a fee issue involved.	ounts Receivable d.
Whe	r action has been assigned <b>Mail Control Number</b> or calling to inquire about this action, please refer to this mail control may call me at (817) 860-8103.	umber.
	and RAN	i.
NRC	FORM 532 (RIV) Licensing Assistant	

(10-2010)

## INFORMATION FROM LTS Accounts Receivable/Payable Program Code: 03620 Status Code: Pending Amendment Regional Licensing Branches 3M 3P Fee Category: Exp. Date: Fee Comments: Decom Fin Assur Read: License Fee Worksheet - License Fee Transmittal A. REGION 1. APPLICATION ATTACHED **BOISE STATE UNIVERSITY** Applicant/Licensee: Received Date: 04/12/2011 3032218 Docket Number: 574900 Mail Control Number: 11-27388-01 License Number: Amendment Action Type: 2. FEE ATTACHED Amount: Check No.: 3. COMMENTS Colleen Munchan Signed: 4-14-2011 Date: B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered / / 1. Fee Category and Amount: 2. Correct Fee Paid. Application may be processed for: Amendment: Renewal: License: 3. OTHER

[FOR ARPB USE]

BETWEEN:

Signed:

Date: