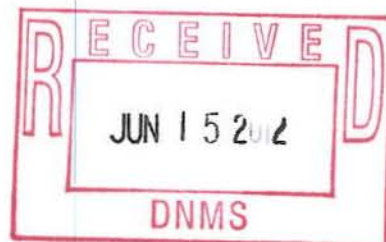




UNIVERSITY OF  
SOUTH DAKOTA

June 12, 2012

Jacqueline D. Cook, Senior Health Physicist  
U.S. Nuclear Regulatory Commission, Region IV  
Division of Nuclear Materials Safety  
Nuclear Materials Safety, Branch B  
1600 East Lamar Boulevard  
Arlington, TX 76011-4511  
Attn: Licensing Assistant



Re: NRC License # 40-02331-19

Dear Ms. Cook:

The University of South Dakota is requesting additional sources be added to our license to be used as calibration sources in research and development at the Homestake Mine in Lead, South Dakota. The table below outlines the specific products that we wish to acquire:

Source	Product #	Activity (10 <sup>-6</sup> Ci)	Type	Qty	Total (10 <sup>-6</sup> Ci)	Manufacturer	Comments
Cobalt-60	VZ-3631-001	0.17	line	2	0.34	Eckert & Ziegler	Custom source
Thorium-228	VZ-3631-001	0.28	line	2	0.56	Eckert & Ziegler	Custom source
Barium-133	GF-133D	10	button	2	20	Eckert & Ziegler	
Cobalt-60	GF-060D	10	button	2	20	Eckert & Ziegler	
Americium-241	GF-241D	23	button	2	46	Eckert & Ziegler	

The researchers have also requested a <sup>232</sup>Thorium-containing welding rod, which to my understanding is exempt per 10 CFR 40.13. Please advise me if information on this device is required by the NRC.

Please do not hesitate to contact me with any questions or concerns.

Sincerely,

Laura J. Jenks, Ph.D.  
Vice President for Research  
Radiation Safety Officer  
The University of South Dakota  
414 E. Clark Street  
Vermillion, SD 57069  
Phone: 605-677-5370  
[Laura.Jenks@usd.edu](mailto:Laura.Jenks@usd.edu)

PUBLIC

- ☐ Immediate Release  
☒ Normal Release

NON-PUBLIC

- ☐ A.3 Sensitive-Security Related  
☐ A.7 Sensitive Internal  
☐ Other: \_\_\_\_\_

Reviewer: JUL Date: 6/27/12

1h 577767

**Murnahan, Colleen**

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**From:** Hill, Carol  
**Sent:** Thursday, June 21, 2012 5:34 PM  
**To:** Murnahan, Colleen  
**Subject:** FW: Amendment request U of S. Dak.  
**Attachments:** Amendment request\_USD 40-02331-19 NRC license\_6-12-12.pdf

I just found this one buried in my email. I thought I'd gone through them all already.

**Carol L. Hill**, *Licensing Assistant*

**Direct: 817-200-1140**

**Toll Free: 1-800-952-9677**

**Fax: 817-200-1188**

**E-mail: [Carol.Hill@nrc.gov](mailto:Carol.Hill@nrc.gov)**

**US Nuclear Regulatory Commission**

**1600 E. Lamar Blvd.**

**Arlington, TX 76011-4511**

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**From:** Jenski, Laura J [<mailto:Laura.Jenski@usd.edu>]

**Sent:** Tuesday, June 12, 2012 8:29 AM

**To:** Hill, Carol

**Subject:** Amendment request U of S. Dak.

Ms. Hill,

I have attached an amendment request from the University of South Dakota, for license #40-02331-19. Please let me know if you have additional questions. Thank you in advance for your assistance.

Laura Jenski

Laura J. Jenski, Ph.D.

Vice President for Research

The University of South Dakota

414 E. Clark Street

Vermillion, SD 57069

Tel: 605-677-5370

Fax: 605-677-6387

E-mail: [laura.jenski@usd.edu](mailto:laura.jenski@usd.edu)

BETWEEN:

Accounts Receivable/Payable  
and  
Regional Licensing Branches

[ FOR ARPB USE ]  
INFORMATION FROM LTS

Program Code: 01110  
Status Code: Pending Amendment  
Fee Category: 3L 4A  
Exp. Date: 06/30/2014  
Fee Comments:  
Decom Fin Assur Req: Y

## License Fee Worksheet - License Fee Transmittal

### A. REGION

#### 1. APPLICATION ATTACHED

Applicant/Licensee: SOUTH DAKOTA, UNIVERSITY OF  
Received Date: 06/15/2012  
Docket Number: 3015186  
Mail Control Number: 577767  
License Number: 40-02331-19  
Action Type: Amendment

#### 2. FEE ATTACHED

Amount: \_\_\_\_\_  
Check No.: \_\_\_\_\_

#### 3. COMMENTS

Signed: Colleen Murnahan  
Date: 6-26-12

### 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 \_\_\_\_\_  
\_\_\_\_\_

Signed: \_\_\_\_\_  
Date: \_\_\_\_\_