



United States Department of the Interior

U. S. GEOLOGICAL SURVEY  
Box 25046 M.S. 911  
Denver Federal Center  
Denver, Colorado 80225

RECEIVED

APR 1 2011

DNMS

IN REPLY REFER TO:

March 29, 2011

Nuclear Regulatory Commission  
Attn: Jacqueline Cook, R-IV/DNMS/NMSB-B  
Texas Health Resources Tower  
612 E. Lamar Blvd., Suite 400  
Arlington, TX 76011-4125

Dear Ms. Cook:

This letter is to notify you of three changes in the details of the U.S. Geological Survey (USGS) materials license 05-01399-08. These three changes are:

1. Change in Radiation Safety Officer (RSO)
2. Change in Radiation Safety Committee (RSC) Chairperson
3. Addition of satellite location to licensee locations

The USGS has hired a permanent, full-time health physicist to take over the position of RSO. I herein designate Mr. Craig Hendrickson as the RSO on license 05-01399-08. Please change item 11.C to Mr. Craig Hendrickson. Mr. Hendrickson's education and experience are provided in Attachment 1.

The RSC Chairperson position is rotating to Dr. James Paces. Please change item 11.A to Dr. James Paces. Dr. Paces' education and experience are provided in Attachment 2.

Our RSC approved the addition of a new location on license 05-01399-08 effective 3/21/2011. Please change Item 10.A to include the following address:

USGS Oregon Water Science Center  
2130 SW 5<sup>th</sup> Avenue  
Portland, OR 97201

We request that you amend license 05-01399-08 accordingly.

Sincerely,

Dr. Jay Hestbeck  
Management Representative, USGS Radiation Safety Committee  
Deputy Area Executive, Rocky Mountain Area

15 5 7 4 8 1 8

# ATTACHMENT 1

**Mr. Craig Hendrickson, RSO**

## **Formal education:**

- B.S., Physics (minor in Computer Science), Ball State University, Muncie, IN 2007
- Education includes several post graduate classes in Health Physics (nuclear physics and radiation biology) that will be applied toward a Masters Degree in Health Physics.

## **Related experience:**

- Health Physicist, Wright-Patterson Air Force base, 2009-2011. Successfully completed Radiological First Responder training by the Department of Homeland Security (2009). Completed U.S. Army Corps of Engineers training on hazardous waste manifesting and shipping (2010). Performed health physics surveys, contamination checks, dosimetry, waste processing, and radiological evaluations. Also performed comprehensive technical reports.
- Radiological Control Technician, Portsmouth Naval Shipyard, Portsmouth, NH, 2007-2009. Successfully completed Radiological Control Technician School (2008). Performed health physics surveys, contamination checks, instrument QC checks, waste processing, and environmental assessments relative to Naval light water reactors. Also performed comprehensive technical reports.
- Experience includes work with a broad range of radioisotopes, including Am-241, Cd-137, Kr-85, Co-60, Cr-51, C-14, and H-3.

# ATTACHMENT 2

## Dr. James Paces, Radiation Safety Committee Chairperson

### Formal education:

Ph.D., Geology, Michigan Technological University, Houghton, MI 1988  
Thesis: Magmatic processes, evolution, and mantle source characteristics contributing to the petrogenesis of Midcontinent Rift basalts: Portage Lake Volcanics, Keweenaw Peninsula, Michigan.

B.S., Geology (Honors), University of Oregon, Eugene, OR 1978

### Related experience:

- Member, USGS Radiation Safety Committee (Denver broadscope license) since June of 2000. Participate in quarterly meetings, audit Radioactivity User Permits, evaluate and vote on radiation safety matters
- Radioisotope Users Permit holder, 1995 to 2010. In charge of U-Th disequilibrium chemistry lab involving low quantities of natural and artificial U and Th isotopes ( $^{238}\text{U}$ ,  $^{236}\text{U}$ ,  $^{235}\text{U}$ ,  $^{234}\text{U}$ ,  $^{233}\text{U}$ ,  $^{230}\text{Th}$ ,  $^{229}\text{Th}$ , and  $^{205}\text{Pb}$  with total activity levels less than 100 microCuries).
- Lead investigator for U-Th studies within the Yucca Mountain Project Branch. In addition to normal duties, I had the lead for producing three large, inclusive reports under stringent DOE deadlines over the last decade. These reports represent major pieces of research that our Team supplied to DOE, several of which had high visibility. Recently, I was given lead responsibility for writing a comprehensive chapter summarizing paleohydrology studies at Yucca Mountain for a Geological Society of America Memoir. This report represents a major compilation of research done by our Team over the last 20 years. I also have presented summaries of the research done by our group to federally-appointed scientific oversight groups (Nuclear Waste Technical Review Board, USNRC).

### Professional Affiliations

Geological Society of America (since 1989)

Geochemical Society (since 1989)

American Geophysical Union (since 1989)

International Association of Geochemistry and Cosmochemistry (since 2004).

### Honors and Awards

USGS-NAGT Summer Field Assistantship; 1997

National Research Council – USGS Post-Doctoral Associateship, 1990

USGS STAR Awards, 1997-2009

USGS Superior Service Award, 2005

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This is to acknowledge the receipt of your letter/application dated 3/29/11, and to inform you that the initial processing, which includes an administrative review, has been performed.

DATE

- There were no administrative omissions. Your application will be assigned to a technical reviewer. Please note that the technical review may identify other 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 90 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** 574818.  
When calling to inquire about this action, please refer to this mail control number.  
You may call me at (817) 860-8103.

Sincerely,

*Carol L. Heice*  
Licensing Assistant

BETWEEN:

Accounts Receivable/Payable  
and  
Regional Licensing Branches

[ FOR ARPB USE ]  
INFORMATION FROM LTS

Program Code: 03610  
Status Code: Pending Amendment  
Fee Category: 1D 3L 5A  
Exp. Date:  
Fee Comments:  
Decom Fin Assur Req: Y

## License Fee Worksheet - License Fee Transmittal

### A. REGION

#### 1. APPLICATION ATTACHED

Applicant/Licensee: INTERIOR, DEPARTMENT OF THE  
Received Date: 04/01/2011  
Docket Number: 3003728  
Mail Control Number: 574818  
License Number: 05-01399-08  
Action Type: Amendment

#### 2. FEE ATTACHED

Amount: \_\_\_\_\_

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

#### 3. COMMENTS

Signed: Cecelia Murnahan

Date: 4-01-2011

### 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: \_\_\_\_\_

MS 911

US DEPARTMENT OF THE INTERIOR

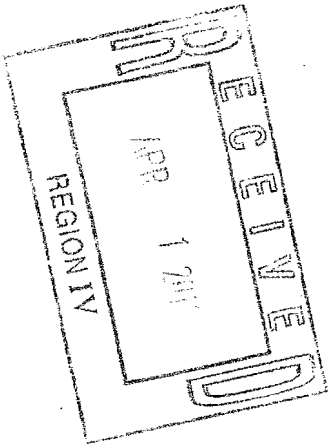
GEOLOGICAL SURVEY

BOX 25046 FEDERAL CENTER

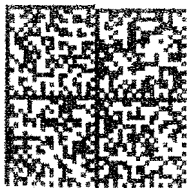
DENVER CO 80225-0046

OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE \$300



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Mailed From 80225  
03/30/2011

US POSTAGE

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*Nuclear Regulatory Commission*

*Attn: Jacqueline Cook*

*Texas Health Resources Tower*

*612 E. Lamar Blvd., Suite 400*

*Arlington, TX 76011-4125*

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