



United States Department of the Interior

U. S. GEOLOGICAL SURVEY

WATER RESOURCES
345 Middlefield Road, MS 496
Menlo Park, CA 94025
Tel: (650) 329-4461
Fax: (650) 329-4545
dbkent@usgs.gov

3/5/12

Dr. Lizette Roldán-Otero
United States Nuclear Regulatory Commission
Region IV
612 East Lamar Blvd., Suite 400
Arlington, TX 76011-4125

License: 04-06674-07

Dear Dr. Roldán-Otero:

I am writing to request that the address to which the invoice for license fees is sent be updated and to request an amendment to the license referenced above.

Last year the invoice for NRC license fees was addressed to the attention of "Department of Interior". People in the mail room had no idea to whom that piece of mail should be delivered. A lucky turn of events resulted in the invoice winding up in the right hands but that took a couple of months and lead to a delay in processing the payment of the fees. Would you please notify whoever is responsible for sending out the invoice that it should be addressed as follows:

Ms. Cynthia Brown
Radiation Safety Committee Director's Representative
U. S. Geological Survey
345 Middlefield Rd. MS 466
Menlo Park, CA 94025

We request the following changes be made to our license:

1) Change the Chairman of the Radiation Safety Committee to Peter Swarzenski, Ph.D (Box 10, item 11 A.) A copy of Dr. Swarzenski's qualifications is attached.

Please note that Dr. Swarzenski's address is as follows:

Dr. Peter Swarzenski
USGS Pacific Coastal and Marine Science Center
400 Natural Bridges Dr.
Santa Cruz, CA, 95060

16 577128

2) Remove possession of U-235 from the license:
Box 6, item F. Uranium-235 in any form at 20 microcuries
Box 6, Item G. Uranium-235 as NBS standards at 15 microcuries.
These materials were transferred to Stanford University last year.

3) Update the specific Nickel-63 foils or plated sources under our possession, box 6, item H.
Delete the items currently listed: Isotope Products Laboratory Model NER-004; Amersham
Model NBC; Nuclear Radiation Development Model N-1001.
Add the following items (all of them are gas chromatographs with Ni-63-containing detectors):
HNU 301 Serial Number N230; HP 5890 Serial Number F4938; Shimadzu Gas Chromatograph
Serial Number 60436AK; SRI/Valco 140BN Electron Capture Detector Model N-1001 Serial
Number E0351.

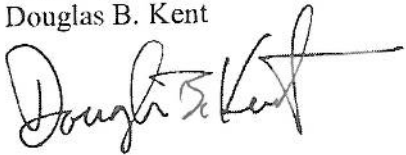
4) Add the following cesium-137 containing sealed source to box 6, Item L:
AEA Technology Sealed Source LV293

All licensed materials will be handled in accordance with procedures described in our Radiation
Safety Manual and applicable ALARA statements by personnel with the appropriate training.

Please feel free to contact me at any time should you have any questions.

Thank you for your attention.

Sincerely,
Douglas B. Kent

A handwritten signature in black ink, appearing to read "Douglas B. Kent", with a long horizontal stroke extending to the right.

Douglas B. Kent, Ph.D.
Research Hydrologist
Chair, Radiation Safety Committee, Menlo Park

Attachment: Dr. Swarzenski's qualifications.

USGS

STATEMENT OF RADIATION TRAINING AND EXPERIENCE

Name: Peter W. Swarzenski User Code (circle one): Principal User User Handler
Non-User

Permit#: 17 Ext: 831-427-4729 E-mail:
pswarzen@usgs.gov

TRAINING

High school graduate: Yes XX No

College or University: Name(s) and location(s):

Univ of Colorado - Boulder

Louisiana State Univ. - Baton Rouge

Years completed: 1997 Degree(s): PhD

Course of study: Chem Oceano

Education specifically applicable to the use of radioactive material (e.g. radiation safety classes at University): Radiochem, Isotope geochem, Isotope systematics, Radiation

EXPERIENCE

a. List experience with radioactivity beginning with most recent:

(1) Dates: From: 1998 To: Present

(2) Title and duties: Res. Oceanographer

(3) Employer: USGS

(4) Address: 400 Natural Bridges Dr, Santa Cruz, CA 95060

(1) Dates: From: JAN 1988 To: FEB 1998

(2) Title and duties: Rad lab supervisor / grad student

(3) Employer: LUMCON

(4) Address: 8124 Hwy 56, Chauvin, LA 70344

(1) Dates: From: To:

(2) Title and duties:

(3) Employer:

(4) Address:

b. Radioactive material previously used. Cite typical radioisotopes and amounts per experiment.

209-Po (~9dpm g⁻¹)

c. Briefly describe procedures using radioisotopes for each type of isotope (example: ³²P labeling, ¹²⁵I iodination).

Po-209 is electroplated onto silver planchets and used as a yield tracer for Po-210 (210Pb) after alpha counting.

a. If you have any other information which will help you to evaluate user level with radioisotopes, please provide it in the space below. You should refer to the Radiation Safety Manual (Appendix C) for information on user levels.

I am a senior research oceanographer / radiochemist that has worked for 20 years with a broad spectrum of radioisotopes such as (xs210Pb, 226,228,224,223Ra, 234,228Th, 234,238U, Rn-222, 137Cs, 7Be, 239,240Pu).



DATE

03/14/2012

NAME AND ADDRESS OF APPLICANT AND/OR LICENSEE

U.S. Geological Survey, Western Region
ATTN: Douglas B. Kent, Ph.D. Chair
Radiation Safety Committee
345 Middlefield Road, MS 409
Menlo Park, CA 94025-3591

LICENSE NUMBER

40-00238-04

MAIL CONTROL NUMBER

576707

LICENSING AND/OR TECHNICAL REVIEWER

This is to acknowledge the receipt of your:

☒ LETTER and/or ☐ APPLICATION

DATED: 03/12/2012

The initial processing, which included an administrative review, has been performed.

☒ AMENDMENT ☐ TERMINATION ☐ NEW LICENSE ☐ RENEWAL

☒ There were no administrative omissions identified during our initial review.

☐ This is to acknowledge receipt of your application for renewal of the material(s) license identified above. Your application is deemed timely filed, and accordingly, the license will not expire until final action has been taken by this office.

☐ Your application for a new NRC license did not include your taxpayer identification number. Please fill out NRC Form 531, located at the following link:

<http://www.nrc.gov/reading-rm/doc-collections/forms/nrc531.pdf>

Send the completed NRC Form 531, by facsimile, to the following number: (301) 415-5387

A copy of your action has been emailed to our License Fee and Accounts Receivable Branch, in our Headquarters office in Rockville, MD. You will be contacted separately if there is a fee issue involved.

Your application has been assigned the above listed **MAIL CONTROL NUMBER**. When calling to inquire about this action, please refer to this control number. Your application has been forwarded to a technical reviewer. Please note that the technical review, which is normally completed within 180 days for a renewal application (90 days for all other requests), may identify additional omissions or require additional information. If you have any questions concerning the processing of your application, our contact information is listed below:

Region IV
U. S. Nuclear Regulatory Commission
DNMS/NMSB - B
1600 E. Lamar Boulevard
Arlington, TX 76011-4511
(817) 200-1103 or (817) 200-1140

BETWEEN:

Accounts Receivable/Payable
and
Regional Licensing Branches

[FOR ARPB USE]
INFORMATION FROM LTS

Program Code: 03610
Status Code: Pending Amendment
Fee Category: 3L 3P
Exp. Date: 04/30/2015
Fee Comments:
Decom Fin Assur Req: N

License Fee Worksheet - License Fee Transmittal

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: INTERIOR, DEPARTMENT OF THE
Received Date: 03/12/2012
Docket Number: 3013620
Mail Control Number: 577128
License Number: 04-06674-07
Action Type: Amendment

2. FEE ATTACHED

Amount: _____

Check No.: _____

3. COMMENTS

Signed: _____

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 _____

Signed: _____

Date: _____