



SEP - 7 2007

Water Resources, MS 465
345 Middlefield Road
Menlo Park, CA 94025

From: Dan Cain
Phone: (650) 329-4478
Fax: (650) 329-4545

To: *NRC, Materials Licensing Branch, Region IV*
Phone:
Fax: *817-860-8263*

Subject: *NRC License 04-06674-07 Amendment*

Number of Pages to Follow: *1*

Comments:

See following



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Radiation Safety Committee
U.S. Geological Survey, MS 465
345 Middlefield Road
Menlo Park, CA 94025
Phone: (650) 329-4478
Fax: (650) 329-4545
E-mail: [djcaain@usgs.gov](mailto:djcain@usgs.gov)

September 7, 2007

NRC License 04-06674-07

Nuclear Materials Licensing Branch
Nuclear Regulatory Commission, Region IV
611 Ryan Plaza Drive, Suite 400
Arlington, Texas 76011-4005

Subject: License Amendment

The Menlo Park Radiation Safety Committee (RSC) is requesting an amendment to the facility NRC license (04-06674-07) to correct a discrepancy between the license and the inventory of a user operating under the license. The user has on hand $^{232}\text{Uranium}/^{228}\text{Thorium}$ spike solutions that were used for rock and minerals analysis. The thorium is listed on the user's permit and the license; however, the uranium is not. The discrepancy was the result of an oversight when the user originally applied for a permit with the license in November 2001 and was discovered this year during a review of the inventory. The spike solutions (quantity and activity of ^{232}U are listed below) have always been in the secure custody of the user.

The ^{232}U is distributed among three containers:

1. stock solution: 75g, 7.5N HNO_3 , 5.73E-02 μCi
 2. dilution from stock: 450g, 2N HNO_3 , 2.37E-03 μCi
 3. dilution from stock: 10g, 2N HNO_3 , 5.65E-05 μCi
- Summary: 535 grams ^{232}U with a total activity of 5.97E-02 μCi

The RSC is requesting that the license be amended as follows:

- **Add ^{232}U** (Category 6. Byproduct, source, and or special nuclear material).
- List the chemical and/or physical form (Category 7) as **Any**.
- The maximum possession limit (Category 8) is **20 microcurries**
- Authorized Use is **For use in sample analysis of rocks and minerals**

The RSC requests that this amendment be expedited. Please contact me with any questions regarding this request.

Sincerely,

Daniel Cain

Radiation Safety Officer and Chairman, Menlo Park Radiation Safety Committee

No 4 7 1 5 0 3

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

: (FOR LFMS USE)
: INFORMATION FROM LTS
: -----
:
: Program Code: 03610
: Status Code: 0
: Fee Category: 3L 1D 2C
: Exp. Date: 20150430
: Fee Comments:
: Decom Fin Assur Req'd: Y
:
:

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: INTERIOR, DEPARTMENT OF THE
Received Date: 20070907
Docket No: 3013620
Control No.: 471503
License No.: 04-06674-07
Action Type: Amendment

2. FEE ATTACHED

Amount: _____
Check No.: /

3. COMMENTS

Signed Colleen Murnahan
Date 9-18-07

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 _____