



SEP - 7 2007

Water Resources, MS 465
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Menlo Park, CA 94025

From: Dan Cain
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To: *NRC, Materials Licensing Branch, Region IV*
Phone:
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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
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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 ²³²Uranium/²²⁸Thorium 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 ²³²U are listed below) have always been in the secure custody of the user.

The ²³²U is distributed among three containers:

1. stock solution: 75g, 7.5N HNO₃, 5.73E-02 μ Ci
 2. dilution from stock: 450g, 2N HNO₃, 2.37E-03 μ C
 3. dilution from stock: 10g, 2N HNO₃, 5.65E-05 μ Ci
- Summary: 535 grams ²³²U with a total activity of 5.97E-02 μ Ci

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

- **Add ²³²U** (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,

A handwritten signature in black ink, appearing to read "Daniel Cain", written over a white background.

Daniel Cain
Radiation Safety Officer and Chairman, Menlo Park Radiation Safety Committee

No 4 7 1 5 0 3

: (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 Reqd: Y
:

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

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 _____