UTAH STATE UNIVERSITY · LOGAN, UTAH 84322
COLLEGE OF SCIENCE

DEPARTMENT OF
PHYSICS
752-4100 Ext. 7761
Radiological Services

8 January 1979

Radioisotope Licensing Branch
Division of Fuel Cycle and Material Safety
US NRC
Washington, D.C. 20555

Gentlemen:

1. License No. 43-02935-03 (expiration date- 30 April 79) duplicates or is exceeded in content by all byproduct limit provisions of License No. 43-12087-04 (expiration date- 31 January 81) except for points: A. americium 241, any form, 10 millicuries; and PP. thorium 228, any form, 10 millicuries.

2. License No. 43-12087-03 (expiration date- 31 August 79) duplicates or is exceeded in content by all byproduct limit provisions of License No. 43-12087-04.

3. License No. 43-12087-01 (expiration date- 28 February 79) duplicates or is exceeded in content by all byproduct limit provisions of License No. 43-12087-04.

As Radiation Safety Officer at Utah State University, I hereby request that License Numbers 43-02935-03, 43-12087-03, and 43-12087-01, as listed above, be officially terminated (or be allowed to naturally expire if you prefer) in favor of the provisions of our broad scope License No. 43-12087-04.

Additionally, amendments to our broad license are requested in order to:

A. cover the americium 241 and thorium 228 byproduct materials (any chemical and/or physical form, 10 millicuries each) from License No. 43-02935-03 which are not included in the broad license, and

B. increase the limit of americium 241 authorized on our broad license from 350 millicuries to 941 millicuries. A list of americium 241 sealed sources currently possessed by USU is attached.

Our request to increase the americium 241 quota (item B, above) is in response to the results of an NRC inspection by Mr. Charles L. Cain of the Region IV (Arlington, TX) office on December 5-6, 1978. At that time it was noted that USU possessed larger quantities of americium 241 than was authorized by any of the licenses listed above. Since all of the americium 241

sealed souces listed on the attached sheet were previously recorded on specific licenses that predated the award of USU's broad license, it appears that license detail omission errors occurred during the specific-to-broad license transition period of late 1975 and/or early 1976.

You will find in your records all pertinent documents stating the credentials of the USU Radiation Safety Program for administering Broad License No. 43-12087-04 (granted 1/16/76 and revised 10/12/77). Note also our communication of 9/10/76, directed to Ms. Patricia C. Vacca, which specifically details the byproduct handling experience of the Radiation Safety Officer, as well as a copy of the sealed source leak test procedure described in the USU Radiological Control Manual.

A copy of these amendment requests is being forwarded to Glen D. Brown, Chief, Fuel Facility and Material Safety Branch, Region IV Office, as evidence that corrective actions are being taken for our citation of noncompliance (recorded possession of excess americium 241).

Please direct future communications regarding these, and any other licensing matters, to one of the two individuals listed below to insure that undue on-campus mail delivery delays will not occur.

Respectfully,

Steven G. Oberg

Steven G. Oberg, Ph.D.
Radiation Safety Officer

Mailing Address:

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cc: Bartell C. Jensen
W. Boyd Christensen
Thomas M. Farley
Glen D. Brown

AMERICIUM 241 SEALED SOURCES POSSESSED BY UTAH STATE UNIVERSITY (8 JANUARY 79).

| Source | Manufacturer | Model No. | Serial No. | Activity (mCi) |
|---|---|---|---|---|
| 1. | Troxler | 105-A | 23623-E | 100 |
| 2. | Troxler | 238 | G-23941-E | 100 |
| 3. | Troxler | 513 | 105-217 | 50 |
| 4. | Troxler | 512 | 104-217 | 50 |
| 5. | Troxler | 105-A | G-20586 | 100 |
| 6. | Troxler | 105-A | G-22515 | 100 |
| 7. | Troxler | 105-A | G-21408 | 100 |
| 8. | Troxler | 687 | 25683(1255) | 100 |
| 9. | Troxler | 413 | 1257 | 100 |
| 10. | Troxler | CAA-918 | CC-1872 | 40 |
| 11. | Campbell Pacific Nuclear | MC-M | MM8122566 | 50 |
| 12. | Campbell Pacific Nuclear | 503 | CPN-131 | 50 |
| | | | TOTAL | 940 mCi |

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