



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
799 ROOSEVELT ROAD
GLEN ELLYN, ILLINOIS 60137

SEP 11 1990

RESPONSE TO
LETTER OF
Nov. 2, 1990
(ATTACHED).

Wittenberg University
Physics Department
ATTN: Dr. Albert J. Frasca
Radiation Safety Officer
P.O. Box 720
Springfield, OH 45501

Gentlemen:

Enclosed is Amendment No. 07 to your NRC License No. 34-11327-03 in accordance with your request.

In accordance with our telephone conference on September 10, 1990, we have amended Subitem 8.E. of your license by reducing your total possession limit of byproduct material with Atomic Nos. 3-83 from 1 curie to 100 millicuries.

After review of your license we have determined that the type, form, and quantity of material authorized does not warrant the development and submittal of a decommissioning funding plan, or certification of financial assurance as described in 10 CFR 30.35 (enclosed). However, this does not relieve you of record keeping requirements relative to information which the Commission considers important to decommissioning. Therefore, we have added License Condition 17, requiring that you maintain such records as set forth in Section 30.35(g).

Please review the enclosed document carefully and be sure that you understand all conditions. You must conduct your program involving radioactive materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate in accordance with NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers; Inspections," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
2. Possess radioactive material only in the quantity and form indicated in your license.

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3. Use radioactive material only for the purpose(s) indicated in your license.
4. Notify NRC in writing of any change in mailing address.
5. Request and obtain appropriate amendment if you plan to change ownership of your organization, change locations of radioactive material, or make any other changes in your facility or program which are contrary to your license conditions or representations made in your license application and any supplemental correspondence with NRC. Any amendment request should be accompanied by the appropriate fee specified in 10 CFR Part 170.
6. Submit a complete renewal application with proper fee or termination request at least 30 days before the expiration date on your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of radioactive material after your license expires is a violation of NRC regulations.
7. Request termination of your license if you plan to permanently discontinue activities involving radioactive material prior to your expiration date.

You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations in your license application will result in enforcement action against you in accordance with the General Policy and Procedures for NRC Enforcement Actions, 10 CFR Part 2, Appendix C.

If you have any questions or require clarification of any of the above stated information, contact us at (708) 790-5625.

Sincerely,



Kevin G. Null
Materials Licensing Section

Enclosure: Amendment No. 07

UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION III
3799 ROOSEVELT ROAD
GLEN ELLYN, ILLINOIS 60137
OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

REGULATORY COMMISSION

PAGE 1 OF 3 PAGES

U.S. LICENSE

Amendment No. 06

Pursuant to
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Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Sections 35, 40 and 70, and in reliance on statements and representations made by the licensee to receive, acquire, possess, and transfer byproduct, special nuclear material for the purpose(s) and at the place(s) designated below, to be used in accordance with the regulations of the applicable Part(s). This license is issued in accordance with Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to the regulations of the Nuclear Regulatory Commission now or hereafter in effect and to any

Licensee

1. Wittenberg University
Physics Department
2. Springfield, OH 45501

In accordance with application dated February 25, 1988
3. License number 34-11327-03 is amended in its entirety to read as follows:

4. Expiration date September 30, 1994

5. Docket or Reference No 030-00929

6. Byproduct, source, and/or special nuclear material

7. Chemical and/or physical form

8. Maximum amount that licensee may possess at any one time under this license

A. Hydrogen-3 - DISPOSED
ADCO-BEATTY WEV. OHSS
DATE 2-28-90
U.S. ENERGY GEN.
OHR 99-004-1873

A. Accelerator Targets
(U.S. Radium Corporation
Model No. LAB 508-1)

A. 3 targets not to exceed 5 curies each.

B. Phosphorus-32

B. Any

B. 5 millicuries

C. Chlorine-36

C. Any

C. 50 microcuries

D. Cesium-137

D. Any

D. 50 microcuries

E. Any byproduct material with Atomic Nos. 3-83, inclusive

E. Neutron activation products

E. 1 curie total.

F. Americium-241 - DISPOSED
ADCO-BEATTY WEV. OHSS
DATE 2-28-90 U.S. ENERGY GEN.
OHR 99-004-1873

F. Electroplated source
(New England Nuclear)

F. One source not to exceed 1 millicurie.

9. Authorized Use # OHR 99-004-1873

A. For storage only incident to disposal.

B. through D. To be used for calibration of accelerator and instruments, laboratory research, and student instruction.

E. For storage only incident to disposal.

F. To be used for Rutherford backscatter studies and calibrations.

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at Wittenberg University, Physics Department, Springfield, Ohio.

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MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

34-11327-03

Docket or Reference number

030-00929

Amendment No. 06

11. Licensed material shall be used by, or under the supervision of, Albert J. Frasca, Ph.D.
12. A. (1) Each sealed source containing licensed material, other than hydrogen-3, with a half-life greater than 30 days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed 6 months except that each source designed for the purpose of emitting alpha particles shall be tested at intervals not to exceed 3 months.
- (2) Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting materials or 10 microcuries or less of alpha emitting material.
- B. Except for alpha sources, the periodic leak test required by this condition does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested for leakage before any use or transfer to another person unless they have been leak tested within 6 months before the date of use or transfer.
- C. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently or semipermanently mounted or stored on which one might expect contamination to accumulate. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission. Records may be disposed of following Commission inspection.
- D. If the test required by Subsection A. or C. of this condition reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region III, 799 Roosevelt Road, Glen Ellyn, Illinois 60137, ATTN: Chief, Nuclear Materials Safety Branch, describing the equipment involved, the test results, and the corrective action taken.
13. Sealed sources containing licensed material shall not be opened.
14. Licensed material shall not be used in or on human beings or in field applications where activity is released except as provided otherwise by specific condition of this license.
15. The licensee is authorized to hold radioactive material with a physical half-life of less than 65 days for decay-in-storage before disposal in ordinary trash provided:
- A. Radioactive waste to be disposed of in this manner shall be held for decay a minimum of 10 half-lives.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

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34-11327-03

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030-00929

Amendment No. 06

15. (Continued)

B. Before disposal as normal waste, radioactive waste shall be surveyed to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.

16. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.

A. Application dated February 25, 1988; and

B. Letter dated December 14, 1982.

For the U.S. Nuclear Regulatory Commission

Date: August 10, 1989Original Signed
By Patricia J. Pelke
Materials Licensing Section, Region III

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