

MATERIALS LICENSE

Amendment No. 05

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

| | | | |
|--|--|--|--|
| Licensee | | In accordance with application dated November 4, 1980 and received with letter | |
| 1. Department of the Interior U. S. Geological Survey | | 3. License number | dated November 29, 1985 23-16788-01 is amended in its entirety to read as follows: |
| 2. Gulf Coast Hydrosience Center NASA-NSTL, Bldg. 2101 NSTL, Mississippi 39529 | | 4. Expiration date | January 31, 1991 |
| | | 5. Docket or Reference No. | 030-11647 |
| 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 | A. Scandium Tritide foil in a Varian Model 96-000095-00 detector cells | A. Not to exceed 1 curie per foil | |
| B. Carbon 14 | B. Any | B. 1 millicurie | |
| 9. Authorized use | | | |
| A. For use in gas chromatographs for sample analysis | | | |
| B. For use in laboratory experiments. | | | |

CONDITIONS

10. Licensed material shall be used only at the U. S. Geological Survey, Gulf Coast Hydrosience Center, NASA-NSTL, Building 2101, NSTL, Mississippi.
11. Licensed material shall be used by, or under the supervision of, Ronald E. Rathbun.
12. Detector cells containing licensed material shall not be opened or the sources removed from the detector cell by the licensee.
13. Detector cells containing scandium tritide foil shall only be used in conjunction with a properly operating temperature control mechanism which prevents foil temperatures from exceeding 325 degrees Centigrade.
14. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintain for 2 years from the date of each inventory.

8603210272 860108
REG2 LIC30
23-16788-01 PDR

111 MLD0

MATERIALS LICENSE
SUPPLEMENTARY SHEETLicense number
23-16788-01Docket or Reference number
030-11647

Amendment No. 05

(cont'd)

CONDITIONS

15. 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 November 4, 1980, as received with letter dated November 29, 1985.



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

PAUL R. GUINN

Date JAN 08 1986

By

Paul R. Guinn
Region II, Nuclear Materials
Safety Section
101 Marietta Street, Suite 2900
Atlanta, GA 30323

FEE EXEMPT