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MATERIALS LICENSE

Amendment No. 04

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 1, Parts 30, 31, 32, 33, 34, 35, 36, 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); and to import such byproduct and source material. 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

1. Tennessee Valley Authority
Laboratory Branch
150-401 Building
2. Chattanooga, Tennessee 37401

In accordance with application dated
March 22, 1983

3. License number 41-08165-07 is amended in
its entirety to read as follows:

4. Expiration date April 30, 1988

5. Docket or
Reference No.

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. Nickel 63

A. Foil in Tracor Model
114800-3200 or 111019;
114800-3201 or 111019;
114800-3203 or 115500;
114800-3204 or 115500
detector cells

A. Not to exceed 20
millicuries per
foil

B. Nickel 63

B. Plated sources in
Hewlett Packard Model
19303 detector cells

B. Not to exceed 15
millicuries per
foil

C. Nickel 63

C. Plated sources in
Hewlett Packard Model
18803-60520 detector
cells

C. Not to exceed 15
millicuries per
foil

9. Authorized use

- A. For use in Tracor Model 560 gas chromatographs for sample analysis.
B. For use in Hewlett Packard 5880 series gas chromatographs for sample analysis.
C. For use in Hewlett Packard 5830/5840 series gas chromatographs for sample analysis.

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MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

41-08165-07

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CONDITIONS

10. Licensed material shall be used only at 150-401 Building, Chattanooga, Tennessee .
11. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections" and Part 20, "Standards for Protection Against Radiation."
12. Licensed material shall be used by, or under the supervision of, Larry O. Hill or Ronald B. Maxwell.
13. In lieu of using the conventional radiation caution colors (magenta or purple on yellow background) as provided in Section 20.203(a)(1), Title 10, Code of Federal Regulations, Part 20, the licensee is hereby authorized to label detector cells and cell baths containing licensed material and used in gas chromatography devices, with conspicuously etched or stamped radiation caution symbols without a color requirement.
14. A. Each chromatograph detector containing Nickel 63 shall be tested for leakage and/or contamination at intervals not to exceed six months. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, a detector received from another person shall not be put into use until tested.
- B. 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 surfaces of the device in which the foil is 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.
- C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the foil 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 test with the U. S. Nuclear Regulatory Commission, Region II, Office of Inspection and Enforcement, 101 Marietta Street, Suite 3100, Atlanta, Georgia 30303, describing the equipment involved, the test results, and the corrective action taken.
- D. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically authorized by the Commission or an Agreement State to perform such services.
- E. The licensee is authorized to collect leak test samples in accordance with the procedures described in the licensee's application dated March 22, 1983 for analysis by Tennessee Valley Authority, Muscle Shoals, Alabama, (Lic. No. 06-06113-04).

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SUPPLEMENTARY SHEET

License number

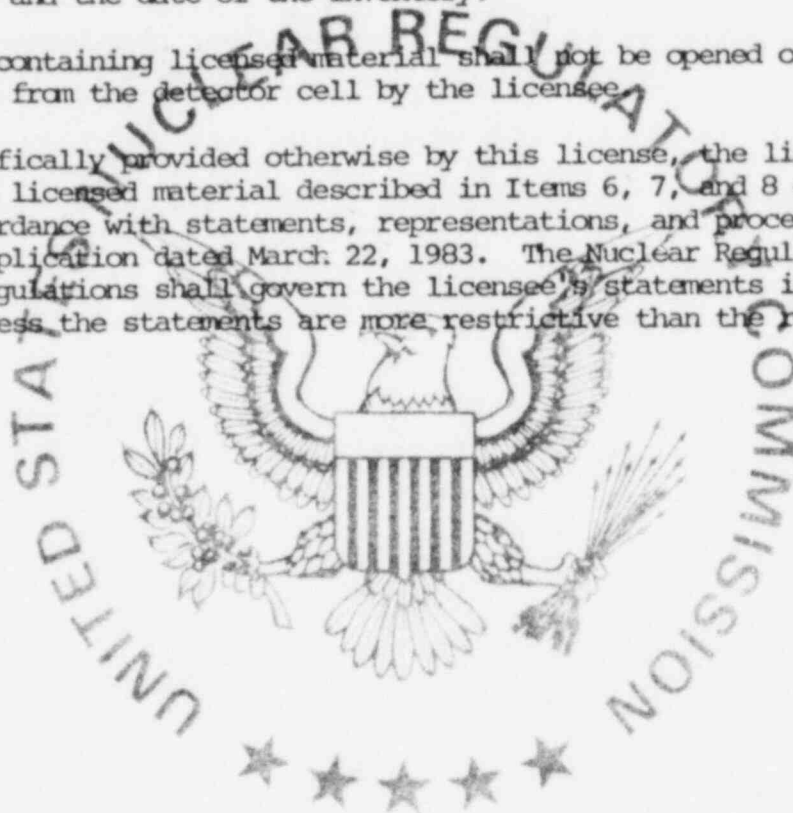
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15. The licensee shall conduct a physical inventory every six (6) months to account for all foils and plated sources received and possessed under the license. The records of the inventories shall be maintained for two (2) years from the date of the inventory for inspection by the Commission, and shall include the quantities and kinds of byproduct material, location of foils and plated sources, and the date of the inventory.
16. Detector cells containing licensed material shall not be opened or the foil sources removed from the detector cell by the licensee.
17. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated March 22, 1983. The Nuclear Regulatory Commission's regulations shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.



FOR THE U.S. NUCLEAR REGULATION COMMISSION

DATE APR 13 1984

By

John W. N. Wick
Material Licensing Branch
Division of Fuel Cycle and
Material Safety
Washington, D. C. 20555