

U. S. NUCLEAR REGULATORY COMMISSION  
MATERIALS LICENSE

+ AMENDMENT 182 + 3 + 4

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Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-433) and Title 10, Code of Federal Regulations, Chapter 1, Parts 30, 31, 32, 33, 34, 35, 36, 40 and 70, and in reliance on previous 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<br>Department of the Army<br>U. S. Army Chemical School<br>Ft. McClellan, Alabama 36205  |   | 3. License number<br>01-02861-05  |
|   |   | 4. Expiration date<br>June 30, 1985   |
|   |   | 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. Any byproduct material with Atomic Numbers 3 - 83, inclusive<br>B. Cesium 137<br>C. Hydrogen 3 | A. Any<br>B. Sealed sources (3M Model 4F6S)<br>C. Any | A. 100 millicuries of each radionuclide<br>B. 2,000 millicuries, not to exceed 500 millicuries per source<br>C. 100 millicuries |
| 9. Authorized use<br>A., B. and C. Storage only.  |   |   |

CONDITIONS

10. Licensed material shall be stored only at Building 4416, Fort McClellan, Alabama.
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 stored by, or under the supervision of, Edwin R. Bradley or John L. Bliss.

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## MATERIALS LICENSE

Supplementary Sheet

License Number 01-02861-05

## CONDITIONS

Docket or  
Reference No. \_\_\_\_\_

(continued)

13. A. (1) Each sealed source containing licensed material, other than Hydrogen 3, with a half-life greater than thirty days and in any form other than gas 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 sealed source received from another person shall not be put into use until tested.
- (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 material or 10 microcuries or less of alpha emitting material.
- (3) 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 prior to any use or transfer to another person unless they have been leak tested within six months prior to the date of use or transfer.
- 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 sealed source or from the surfaces of the device in which the sealed source is permanently 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 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 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.
14. Sealed sources containing licensed material shall not be opened.

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(continued)

5. The licensee shall conduct a physical inventory every six (6) months to account for all sealed 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 sealed sources, and the date of the inventory.
16. Except as specifically provided otherwise by this license, the licensee shall possess and store licensed material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated June 5, 1980. 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.

JUN 05 1980

For the U. S. Nuclear Regulatory Commission

by [Signature]  
Material Licensing Branch

Division of Fuel Cycle and  
Material Safety

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