

## MATERIALS LICENSE

Amendment No. 18

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 May 13, 1983 and April 2, 1985	
1. Avtex Fibers Incorporated		3. License number	45-09469-01 is amended in its entirety to read as follows:
2. P. O. Box 1169 Front Royal, Virginia 22630		4. Expiration date	September 30, 1988
		5. Docket or Reference No.	030-06588
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. Cesium 137	A. Sealed sources (Nuclear Chicago Model 187370)	A. Not to exceed 500 millicuries per source	
B. Cesium 137	B. Sealed sources	B. See Item 9.B.	
C. Cesium 137	C. Sealed source (Ohmart Model A-5776)	D. Not to exceed 250 micro- curies per source	
9. Authorized use			
A. For use in Nuclear Chicago Model 5120 source holder for density/level measurements.			
B. For Possession and use in Ohmart devices which have been evaluated and approved for licensing purposes and authorized for distribution under a license issued by the Nuclear Regulatory Commission or an Agreement State.			
C. For use as check sources for bench checking of gauges.			

## CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located on Kendrick Lane, Front Royal, Virginia.

8505300185 850507  
REG2 LIC30  
45-09469-01 PDR

11 ML 20

**MATERIALS LICENSE**  
SUPPLEMENTARY SHEET

License number

45-09469 -01

Docket or Reference number

030-06588

Amendment No. 18

(cont'd)

## CONDITIONS

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, K. R. Thurston.
13. Sealed sources containing licensed material shall not be opened or removed from their respective source holders by the licensee.
14. 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, except those sealed sources in devices as specified by the manufacturer and as authorized by the Nuclear Regulatory Commission may be leak tested at intervals not to exceed three years. 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) 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 five (5) days of the test with the U.S. Nuclear Regulatory Commission, Region II, Division of Radiation Safety and Safeguards, Nuclear Materials Safety Section, 101 Marietta Street, Suite 2900, Atlanta, Georgia 30323, describing the equipment involved, the test results, and the corrective action taken.
- D. The licensee is authorized to collect leak test samples in accordance with the procedures described in the licensee's application dated May 13, 1983 and letter dated April 2, 1985 for analysis by K. R. Thurston.

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number

45-09469 -01

Docket or Reference number

030-06588

Amendment No. 18

(cont'd)

## CONDITIONS

15. Installation, relocation, removal from service, and initial radiation survey of devices containing licensed material shall be performed only by K. R. Thurston in accordance with procedures contained in letters dated April 2, 1985 and May 9, 1978, and application dated May 13, 1983, by the device manufacturer, or by other persons specifically authorized by the Commission or an Agreement State to perform such services. Installation, replacement, and disposal of sealed sources containing licensed material used in devices shall be performed only by the device manufacturer or by other persons specifically authorized by the Commission or an Agreement State to perform such services.
16. 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 licensed material, location of sealed sources, and the date of the inventory.
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:
- A. Application dated:
- May 13, 1983
- B. Letters and attachments thereto dated:
- April 2, 1985
  - May 9, 1978

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 REGULATORY COMMISSION

EARL G. WRIGHT

Date

MAY 07 1985

By

Earl G. Wright  
Region II, Nuclear Materials

Safety Section

101 Marietta Street, Suite 2900

Atlanta, GA 30323