

MATERIALS LICENSE

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		3. License number	12-18754-02
1. Foundation Engineering, Inc.		4. Expiration date	July 31, 1986
2. Box 3607 RFD Long Grove, IL 60047		5. Docket or Reference No.	030-28725, 12-18754-01
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/Americium-241	A. Sealed source (Troxler Model No. A-100281)	A. 1 source not to exceed 10 millicuries cesium-137 and 50 millicuries americium-241	
B. Cesium-137	B. Sealed source (Troxler Dwg. No. A-102112)	B. 8 millicuries	
C. Americium-241	C. Sealed source (Troxler Dwg. No. A-102113)	C. 60 millicuries	
9. Authorized Use			
A. To be used in Troxler Model 2401 source holder for storage only.			
B. and C. To be used in Troxler Model 3401 compac moisture/density gauge for storage only.			

CONDITIONS

10. Licensed material shall be used only for storage at the licensee's facilities located at 650 Morse Avenue, Schaumburg, Illinois.
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. The person responsible for security and storage of licensed material is Chang H. Choi.

8509130183 850802
REG3 LIC30
12-18754-02 PDR

COPY

2
me30

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

12-18754-02

Docket or Reference number

030-28725

13. A. 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.
- 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 III, 799 Roosevelt Road, Glen Ellyn, Illinois 60137, 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 using an NRC approved leak test kit 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 or removed from the gauges by the licensee.
15. Maintenance, repair and initial radiation survey of devices containing licensed material and 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. 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 applications dated June 20, 1979 and May 28, 1985; and letter dated October 20, 1982. 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

Original Signed

By William J. Adam, Ph.D.

Materials Licensing Section, Region III

Date August 2, 1985

COPY