

MATERIALS LICENSE

Amendment No. 01

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

1. STS Consultant

2. 3306 North Greenriver Road
Evansville, IN 47715In accordance with application dated
August 15, 19853. License number 13-18990-01 is amended in
its entirety to read as follows:

4. Expiration date September 30, 1990

5. Docket or
Reference No. 030-176186. Byproduct, source, and/or
special nuclear material7. Chemical and/or physical
form8. Maximum amount that licensee
may possess at any one time
under this license

A. Cesium-137

A. Sealed sources
(Troxler Electronics
Dwg. No. A-102112)A. No single source
to exceed 9
millicuries

B. Americium-241

B. Sealed sources
(Troxler Electronics
Dwg. No. A-102451)B. No single source
to exceed 50
millicuries

C. Cesium-137

C. Sealed sources
(Campbell Pacific
Model No. CPN-131)C. No single source
to exceed 10
millicuries

D. Americium-241

D. Sealed sources
(Campbell Pacific
Model No. CPN-131)D. No single source
to exceed 50
millicuries

E. Cesium-137/Americium-241

E. Sealed sources
(New England Nuclear
Model No. NER-560)E. No single source
to exceed 11
millicuries
cesium-137 and 60
millicuries
americium-241

9. Authorized Use

A. and B. To be used in Troxler Electronics Model 3400 series density moisture gauges.

C. and D. To be used in Campbell Pacific Nuclear Model MC-2 density moisture gauges.

E. To be used in Soiltest, Incorporated Model NIC-5DT density moisture gauges.

8510030218 850909
REG3 LIC30
13-18990-01 PDR

COPY

2
me30
85 9/18/85

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number 13-18990-01

Docket or Reference number
030-17618

Amendment No. 01

CONDITIONS

10. Licensed material may be used at the licensee's facilities located at 3306 North Greenriver Road, Evansville, Indiana and at temporary job sites of the licensee anywhere in the United States where the U. S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
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. A. Licensed material shall be used by, or under the supervision and in the physical presence of, individuals who have satisfactorily completed the device manufacturer's training program for gauge users and have been designated by the licensee's Radiation Protection Officer. The licensee shall maintain records of the individuals who have been designated as authorized users.
B. The Radiation Protection Officer for the activities authorized by this license is Richard N. Barr.
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.
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 or by other persons specifically authorized by the Commission or an Agreement State to perform such services.

COPY

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number	13-18990-01
Docket or Reference number	030-17618
Amendment No.	01

14. Sealed sources containing licensed material shall not be opened or removed from their respective source holders by the licensee.
15. Maintenance or repair of portable devices involving removal of the sealed sources from the devices or removal or dismantling of shielding may be performed by the device manufacturer, or by other persons specifically authorized by the Commission or an Agreement State to perform such services.
16. The licensee may transport licensed material or deliver licensed material to a carrier for transport in accordance with the provisions of Title 10, Code of Federal Regulations, Part 71, "Packaging of Radioactive Material for Transport and Transportation of Radioactive Material Under Certain Conditions."
17. The licensee shall conduct a physical inventory every six (6) months to account for all licensed material 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, manufacturer's name and model numbers, location of sealed sources and the date of the inventory.
18. 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 August 15, 1985. 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 George M. McCann

Materials Licensing Section, Region III

Date September 9, 1985

COPY