

MATERIALS LICENSE

Amendment No. 02

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. John Mathes and Associates, Inc.

2. 210 West Sand Bank Road
P.O. Box 330
Columbia, IL 62236In accordance with letter dated
April 22, 19853. License number 12-18760-01 is amended in
its entirety to read as follows:

4. Expiration date May 31, 1990

5. Docket or
Reference No. 030-141396. 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 source
(Troxler Dwg.
No. 102112)A. No single source
to exceed 10
millicuries

B. Americium-241

B. Sealed source
(Troxler Dwg.
No. 102451)B. No single source
to exceed 50
millicuries

C. Cesium-137

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

D. Americium-241

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

9. Authorized Use

A. and B. To be used in Troxler Electronic Laboratories Models 1351, 1352 and series 3400
moisture/density gauges to measure moisture/density of construction materials.B. and C. To be used in Campbell Pacific Nuclear Corp. Model MC Series and 500 Series
surface moisture density gauges to measure moisture and density of construction
materials.

CONDITIONS

10. Licensed material may be stored at 210 West Sand Bank Road, Columbia, Illinois and
may be used 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.8506040397 850514
REG3 LIC30
12-18760-01 PDRCOPY 2
ML 388
5-15-85

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License number
12-18760-01

Docket or Reference number
030-14139

Amendment No. 02

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 individuals who have attended the device manufacturer's training course for gauge users and who 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.
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. The licensee is authorized to collect leak test samples in accordance with the procedures described in the licensee's application dated June 14, 1979 for analysis by the manufacturer. Alternatively, leak test samples may be collected and/or analyzed 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 moisture/density gauge by the licensee.
15. The licensee shall conduct a physical inventory every six (6) months to account for all gauges 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 the gauges and the date of the inventory.
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."

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

12-18760-01

Docket or Reference number

030-14139

Amendment No. 02

17. The duties of the Radiation Safety Officer shall include those items listed in Item 5 of the NRC guide entitled "A Guide for the Preparation of Byproduct Materials Applications for the Use in Portable and Semiportable Gauging Devices."
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 June 14, 1979 and letters dated February 10, 1982 and April 22, 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 Evelyn R. Matson

Materials Licensing Section, Region III

COPY

Date May 14, 1985