

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		
1. CRS Sirrine, Inc.		3. License number 12-24548-01
2. 8700 W. Bryn Mawr Avenue South Tower, Suite 400 Chicago, IL 60631		4. Expiration date August 31, 1990
		5. Docket or Reference No. 030-28830
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 source (Troxler Dwg. No. A-102112)	A. No single source to exceed 10 millicuries
B. Americium-241	B. Sealed source (Troxler Dwg. No. A-102451)	B. No single source to exceed 50 millicuries
9. Authorized Use		
A. and B. To be used in Troxler Series 3400 moisture/density gauge to measure moisture/density of construction materials.		

CONDITIONS

10. Licensed material may be used at the licensee's facilities located at 8700 W. Bryn Mawr Avenue, South Tower, Suite 400, Chicago, Illinois 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. Licensed material shall be used by, or under the supervision and in the physical presence of, Daron F. Patriquen, Stefan B. Bilik or other individuals who have (1) successfully completed the Troxler Electronics Laboratories training course for gauge users, (2) received instructions on the licensee's operating and emergency procedures and (3) been designated by the licensee's Radiation Protection Officer. The licensee shall maintain records of all individuals who have been designated as authorized users.

8509160174 850808
REG3 LIC30
12-24548-01 PDR

2/1
COPY me 30
85 8/8/85

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

12-24548-01

Docket or Reference number

030-28830

13. The Radiation Protection Officer for the activities authorized by this license is Daron F. Patriquen.
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. 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. The licensee is authorized to collect leak test samples in accordance with the procedures described in the licensee's application dated July 30, 1985 for analysis by Troxler Electronics. 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.
15. Sealed sources containing licensed material shall not be opened or removed from the moisture/density gauge by the licensee.
16. 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.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number	12-24548-01
Docket or Reference number	030-28830

17. The licensee shall insure that film badges are exchanged at intervals not to exceed one month.
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 July 30, 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

Date August 8, 1985

Original Signed
By B.J. Holt
Materials Licensing Section, Region III

COPY