

Jarvis, Downing & Emch, Inc.  
 200 G.C. & P. Road  
 P.O. Box 6253  
 Wheeling, WV 26003

SUBJECT: TRANSMITTAL AND EXPLANATION OF MATERIALS LICENSE  
 (REFERENCE CONTROL NO. 256604; DOCKET NO. 030-33550)

Gentlemen:

Enclosed is Amendment No. 1 to License No. 47-25299-01 issued in response to your letter dated September 12, 1995. Revisions to your license are printed in **BOLD** typeface. Please review this document carefully and be sure that you understand all of its provisions.

If you have questions about this letter or your license, please call me at (404) 331-0344.

Sincerely,

Jay L. Henson  
 Materials License Reviewer  
 Nuclear Materials Licensing Section

Enclosures: Amendment No. 1

OFFICE	RECEIVED	FILED					
SIGNATURE							
NAME	Henson	Potter					
DATE	09 19 95	09 25 95	09 25 95	09 25 95	09 25 95	09 25 95	09 25 95
COPY	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

**OFFICIAL RECORD COPY**

**MATERIALS LICENSE**

Amendment No. 1

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, 36, 39, 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.

<p style="text-align: center;">Licensee</p> <p>1. Jarvis, Downing &amp; Emch, Inc.</p> <p>2. 200 G.C.P. Road, Box 6253 Wheeling, West Virginia 26003</p>	<p>In accordance with letter dated September 12, 1999</p> <p>3. License Number 47-25299-01</p> <p>is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration Date May 31, 1999</p> <hr/> <p>5. Docket or Reference No. 030-33560</p>
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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 registered pursuant to 10 CFR 32.210 or an equivalent Agreement State regulation	A. No single source to exceed 407 MBq (11 millicuries)
B. Americium 241	B. Sealed neutron source registered pursuant to 10 CFR 32.210 or an equivalent Agreement State regulation	B. No single source to exceed 1.5 GBq (50 millicuries)

9. Authorized Use	A and B. Sealed source(s) contained in compatible portable gauging devices (registered pursuant to 10 CFR 32.210 or an equivalent Agreement State regulation) for measuring properties of materials.
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**CONDITIONS**

- 10. Licensed material may be used at the licensee's facilities located at 200 G.C. & P. Road, Wheeling, West Virginia 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 Radiation Protection Officer for this license is William W. Stegman

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PDR ADOCK 03033560  
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**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number

47-25299-01

Docket or Reference Number

030-33560

Amendment No. 1

**CONDITIONS**

Continued

12. Licensed material shall be used by, or under the supervision and in the physical presence of, **William W. Stegman** or individuals who have been trained in the licensee's standard operating and emergency procedures and have satisfactorily completed at least one of the following:
- A. The device manufacturer's training course for safe use and handling of portable gauging devices containing licensed material, or
  - B. A portable gauge training program conducted in accordance with the provisions of an NRC or Agreement State license.
13. **Sealed sources containing licensed material shall not be opened or removed from the gauging device by the licensee.**
14. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.
- B. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
- C. Sealed sources need not be leak tested if they contain not more than 100 microcuries of beta and/or gamma emitting material or are in storage and are not being used. However, when they are removed from storage for use or transferred to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- D. The leak test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(b)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U. S. Nuclear Regulatory Commission, Region II, Division of Radiation Safety and Safeguards, Nuclear Material Inspection Section, 101 Marietta Street, Suite 2900, Atlanta, Georgia 30323-0199. The report shall specify the source involved, the test results, and corrective action taken.
- E. The licensee is authorized to collect leak test samples for analysis by Troxler Electronic Laboratories, Inc. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
15. **The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."**
16. **The licensee shall conduct a physical inventory every 6 months to account for all sources and r devices received and possessed under the license.**

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number	47-25299-01
Docket or Reference Number	030-33560
Amendment No. 1	

Continued

**CONDITIONS**

- 17. The licensee shall maintain records of information important to safe and effective decommissioning at location specified in Condition 10 pursuant to the provisions of 10 CFR 30.35(g) until this license is terminated by the Commission.
- 18. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum specified 10 CFR 30.35(d) for establishing decommissioning financial assurance.
- 19. Each portable nuclear gauge shall have a lock or outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container must be locked when in transport, storage or when not under the direct surveillance of an authorized user.
- 20. Any cleaning, maintenance, or repair of the gauge(s) that requires removal of the source rod shall be performed only by the manufacturer or by other persons specifically licensed by the Commission or an Agreement State to perform such services.
- 21. A. The licensee may not possess and use materials authorized in Items 6, 7, and 8, until: 1) the licensee has constructed facilities and obtained the equipment described in the application and supporting documentation; and 2) the U.S. Nuclear Regulatory Commission, Region II, ATTN: Chief, Nuclear Materials Inspection Section, 101 Marietta Street, Suite 2900, Atlanta, GA 30323, has been notified in writing that activities authorized by the license will be initiated.  
 B. In accordance with the requirements set forth in 10 CFR 30.36(b), the licensee shall promptly notify the Nuclear Regulatory Commission, in writing, of a decision not to complete the facility, acquire equipment, or possess and use authorized material.
- 22. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.
  - A. Application dated May 3, 1994 [new license]
  - B. Letter dated September 12, 1995 [change RSO]

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

JAY L. HENSON

Date SEP 25 1995

By Jay L. Henson  
 Region II, Nuclear Materials Licensing Section  
 101 Marietta Street, Suite 2900  
 Atlanta, GA 30323

*[Signature]*  
 9/25/95  
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# CONVERSATION RECORD

TIME

DATE

TYPE

VISIT

CONFERENCE

TELEPHONE

INCOMING

OUTGOING

ROUTING

NAME/SYMBOL

INT

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

ORGANIZATION (Office, dept., bureau, etc)

TELEPHONE NO

SUBJECT

SUMMARY

ACTION REQUIRED

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

DATE

ACTION TAKEN

SIGNATURE

TITLE

DATE

