

## MATERIALS LICENSE

Amendment No. 18

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.

DL-042795-04

## Licensee

1. Hayes, Seay, Mattern & Mattern, Inc.  
Architect-Engineers-Planners

2. 1315 Franklin Road, SW  
Roanoke, Virginia 24016

In accordance with a letter dated March 27, 1995

3. License Number 45-15168-01

is amended in its entirety to read as follows:

4. Expiration Date March 31, 1997

5. Docket or Reference No. 030-08676

## 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 10 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 50 millicuries

## 9. Authorized Use:

A and B. For use in Troxler model 3400 series portable gauging devices (registered pursuant to 10CFR 32.210 or an equivalent Agreement State Regulation) to measure properties of materials.

## CONDITIONS

10. Licensed material may be used at the licensee's facilities at 1315 Franklin Road, S.W., Roanoke, 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 Wade A. Anderson.
12. Licensed material shall be used by, or under the supervision and in the physical presence of, William B. Hoover, Hugh C. Gairst, Kyle L. Dobbins, Wade A. Anderson, Tyron S. Powers, Donald F. Shires, John H. Spyhalski, or individuals who have satisfactorily completed the device manufacturer's training program and/or the Virginia Department of Transportation Nuclear Safety Training course for safe use of portable gauging devices and have

10 CFR  
9505110279 950427  
PDR ADOCK 03008676  
C PDR

1116.00

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number

45-15168-01

Doc Let or Reference Number

030-08676

Amendment No. 18

**CONDITIONS**

(Cont'd)

been trained in the licensee's operating and emergency procedures. The licensee shall maintain records of persons designated as users.

13. Sealed sources containing licensed material shall not be opened or removed from the gauging device by the licensee.
14. A.(1) The source(s) specified in Item 7, shall be tested for leakage and/or contamination at intervals not to exceed 6 months. Any source received from another person which is not accompanied by a certificate indicating that a test was performed within 6 months before the transfer 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. Any source in storage and not being used need not be tested. When the source is removed from storage for use or transfer to another person, it shall be tested before use or transfer.  
C. The 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, the source shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. A 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. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.  
D. The licensee is authorized to collect leak test samples for analysis by Troxler Electronics Laboratories or tests for leakage and/or contamination shall 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/or devices received and possessed under this license. Records of inventories shall be maintained for 2 years from the date of each inventory.
17. The licensee shall maintain records of information important to safe and effective decommissioning at 1315 Franklin Road S.W., Roanoke, Virginia 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.

File Number

45-15168-01

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

Ticket or Reference Number

030-08676

Amendment No. 18

(Cont'd)

**CONDITIONS**

19. 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 January 20, 1992
  - B Letter dated March 13, 1992
  - C **Letter dated March 27, 1995 [change RSO, add and delete users]**
  - D **FAX dated April 17, 1995 [Training certificates for new users named in Condition No. 12]**

FOR THE U S NUCLEAR REGULATORY COMMISSION

EARL G. WRIGHT

Date

APR 27 1995

By:

*Earl G. Wright*Region II Nuclear Materials Licensing Section  
111 Marietta Street, Suite 2800  
Atlanta, GA 30303

**Hayes, Seay, Matten & Matten, Inc.**  
ARCHITECTS • ENGINEERS • PLANNERS

1315 Franklin Road, SW • Roanoke, Virginia 24016  
P. O. Box 13446 • Roanoke, Virginia 24034  
Phone: 703-857-3100 • Facsimile: 703-857-3180

**Fax Message**

Date 1 APR 96

Comm No. 2276

TO: Name JOHN POTTER

Company IKMM

Fax Number 404 331 7437

FROM: Name WADE ANDERSON

COMMENTS:

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Number of Pages 4 Including This Cover Sheet

If all pages not received, please call 703-857-3244

# TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

JAMES SHANE POWERS

of

HAYES, SPAY, PATTERN & PATTERN, INC.

PAS SUCCESSFULLY COMPLETED THE TROXLER ELECTRONIC LABORATORIES, INC.  
TRAINING COURSE FOR THE USE OF NUCLEAR TESTING EQUIPMENT.  
SUBJECTS INCLUDED IN THIS COURSE WERE AS FOLLOWS:

## Radiological Safety

1. Principles and practices of radiation protection.
2. Leak testing procedure.
3. Mathematics and calculations basic to the use and measurement of radioactivity.
4. Biological effects of radiation.
5. Radioactivity measurement standards and monitoring techniques and instruments.
6. Accident and incident procedure.
7. Procedures for nuclear gauge storage and transportation.
8. General safety precautions.

## Gauge Operation

1. Instrument theory
2. Operating procedures
3. Maintenance
4. Field application
5. Gauge calibration

FRANK D. JONES

INSTRUCTOR

03-05-92  
DATE

WILLIAM F. TROXLER  
PRESIDENT

Nº 40897

# TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

JOHN G. SPYRALSKI  
of

HAYES, SEAY, MATERN, & MATERN, INC.  
HAS SUCCESSFULLY COMPLETED THE TROXLER ELECTRONIC LABORATORIES, INC.  
TRAINING COURSE FOR THE USE OF NUCLEAR TESTING EQUIPMENT.  
SUBJECTS INCLUDED IN THIS COURSE WERE AS FOLLOWS:

Radiological Safety

1. Principles and practices of radiation protection.
2. Radioactivity measurement standardization and monitoring techniques and instruments.
3. Mathematics and calculations basic to the use and measurement of radiation.
4. Radiological effects of radiation.
5. Radioactive measurement standards and transportation.
6. Accident and incident procedures.
7. Procedures for nuclear gauge storage and transportation.
8. General safety precautions.

Gauge Operation

1. Instrument theory
2. Operating procedures
3. Maintenance
4. Field application
5. Gauge calibration

Harvey Hunley  
INSTRUCTOR

02-22-88  
DATE

H. P. Troxler  
PRESIDENT

N<sup>o</sup> 21887

# TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

JOHN G. SPYHALSKI

of

HAYES, SPEAK, MATERN, & MATERN, INC.,  
TRAINING COURSE FOR THE USE OF NUCLEAR TESTING EQUIPMENT.  
SUBJECTS INCLUDED IN THIS COURSE WERE AS FOLLOWS:

Radiological Safety

1. Principles and practices of radiation protection.
2. Leak testing procedures.
3. Mathematics and calculations basic to the use and measurement of radioactivity.
4. Biological effects of radiation.
5. Radioactivity measurement standards and monitoring techniques and instruments.
6. Accident and incident procedures.
7. Procedures for nuclear gauge storage and transportation.
8. General safety precautions.

Gauge Operation

1. Instrument theory
2. Operating procedures
3. Maintenance
4. Field application
5. Gauge calibration

HARRY DUNLEVY  
INSTRUCTOR

02-22-88  
DATE

H.P. Troxler  
PRESIDENT

N# 21887

# TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

JANWALD E. SHIRES  
of

HAYES, SAY, MATERN & MATERN

HAS SUCCESSFULLY COMPLETED THE TROXLER ELECTRONIC LABORATORIES, INC.  
TRAINING COURSE FOR THE USE OF NUCLEAR TESTING EQUIPMENT.  
SUBJECTS INCLUDED IN THIS COURSE WERE AS FOLLOWS:

1. Principles and practices of radiation protection.
2. Lab testing procedures.
3. Mathematics and calculations basic to the use and measurement of radioactivity.
4. Biological effects of radiation.
5. Radioactivity measurement instruments and monitoring techniques and instruments.
6. Accident and incident procedures.
7. Procedures for nuclear gauge storage and transportation.
8. General safety precautions.

Gauge Operation

1. Instrument theory
2. Operating procedures
3. Maintenance
4. Field application
5. Gauge calibration

5/6/85  
DATE

NO 10348

H. J. TROXLER  
PRESIDENT

*H. J. Troxler*  
INSTRUCTOR

BETWEEN:

License Fee Management Branch, ARM  
8nd  
Regional Licensing Sections

(FOR LFMS USE)  
INFORMATION FROM LTS  
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Program Code: 03121  
Status Code: 0  
Fee Category: 3P  
Exp. Date: 19970331  
Fee Comments: Dec or Fin Assur Recd: N  
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LICENSE FEE TRANSMITTAL

A. REGION [ ]

1. APPLICATION ATTACHED

Applicant/Licensee: HAYES, SEAY, MATTEN & MATTEN  
Received Date: 950412  
Docket No.: 3008676  
Control No.: 256394  
License No.: 45-15168-01  
Action Type: Amendment

2. FEE ATTACHED

Amount: 166.00  
Check No.: 4544

3. COMMENTS

Signed Jeffrey K. Miller  
Date 4/17/95

8. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered)

1. Fee Category and Amount: 166.00
2. Correct fee paid. Application may be accessed for:  
Amendment         
Renewal         
License
3. OTHER

Signed Jeffrey K. Miller  
Date 4/17/95