

FORM NRC-313 I
(6-78)
10 CFR 30

U.S. NUCLEAR REGULATORY COMMISSION

NEW L+L
1. APPLICATION FOR:
(Check and/or complete as appropriate)
48-18672-01
0302-14030

APPLICATION FOR BYPRODUCT MATERIAL LICENSE
INDUSTRIAL

See attached instructions for details.

Completed applications are filed in duplicate with the Division of Fuel Cycle and Material Safety, Office of Nuclear Material Safety, and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555 or applications may be filed in person at the Commission's office at 1717 H Street, NW, Washington, D. C. or 7915 Eastern Avenue, Silver Spring, Maryland.

X a. NEW LICENSE

b. AMENDMENT TO:
LICENSE NUMBER

c. RENEWAL OF:
LICENSE NUMBER

2. APPLICANT'S NAME (Institution, firm, person, etc.)

Soil Testing Services of Wis., Inc.

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION
(414) 494-9656

3. NAME OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION

Jon D. Mueller

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION
(414) 494-9656

4. APPLICANT'S MAILING ADDRESS (Include Zip Code)

Soil Testing Services of Wis., Inc.
540 Lambeau St.
Green Bay, Wisconsin 54303

5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED
(Include Zip Code)

See Attached Page No. 3

(IF MORE SPACE IS NEEDED FOR ANY ITEM, USE ADDITIONAL PROPERLY KEYED PAGES.)

6. INDIVIDUAL(S) WHO WILL USE OR DIRECTLY SUPERVISE THE USE OF LICENSED MATERIAL
(See Items 16 and 17 for required training and experience of each individual named below)

FULL NAME

TITLE

a. Jon D. Mueller

Assistant Project Engineer

b. Kenneth Kujava

Laboratory Supervisor

c. Individuals who have attended manufacturer's training course (or equivalent) and those designated by the Radiation Protection Officer

7. RADIATION PROTECTION OFFICER

Jon D. Mueller

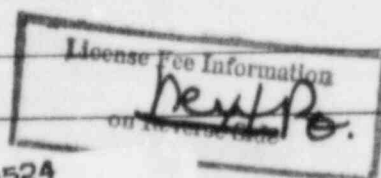
Attach a resume of person's training and experience as outlined in Items 16 and 17 and describe his responsibilities under Item 15.

8. LICENSED MATERIAL

| LINE NO. | ELEMENT AND MASS NUMBER | CHEMICAL AND/OR PHYSICAL FORM | NAME OF MANUFACTURER AND MODEL NUMBER (If Sealed Source) | MAXIMUM NUMBER OF MILLICURIES AND/OR SEALED SOURCES AND MAXIMUM ACTIVITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME |
|----------|-------------------------|-------------------------------|--|---|
| | | | | |
| (1) | Cesium 137/ | Sealed Source | Troxler Electronics | 8mCi |
| (2) | Americium 241 | Sealed Source | Model No. 3411-B | 40mCi |
| (3) | | | | |
| (4) | | | | |

DESCRIBE USE OF LICENSED MATERIAL
E

(1) For use in Troxler Electronics Laboratories Model 3411-B Moisture-Density
(2) Meter to measure moisture and surface density of construction materials
(3)
(4)



FORM NRC-313 I (6-78)

8506110713 850524
REG3 LIC30
48-18672-01
PDR

FEB 26 1979

Control No. 01369

EB 26 1979

9. STORAGE OF SEALED SOURCES

| LINE NO. | CONTAINER AND/OR DEVICE IN WHICH EACH SEALED SOURCE WILL BE STORED OR USED. A. | NAME OF MANUFACTURER B. | MODEL NUMBER C. |
|----------|--|----------------------------|--------------------|
| (1) | Case: Epoxy finish aluminum casting Cs-137, special form certificate GB:SFC 140 | Troxler Electronics | 3411-B |
| (2) | Am-241: Epoxy finish aluminum casting , special form cert. GB:SFC 7 | Laboratories | |
| (3) | | | |
| (4) | | | |

10. RADIATION DETECTION INSTRUMENTS

| LINE NO. | TYPE OF INSTRUMENT A. | MANUFACTURER'S NAME B. | MODEL NUMBER C. | NUMBER AVAILABLE D. | RADIATION DETECTED (alpha, beta, gamma, neutron) E. | SENSITIVITY RANGE (milliroentgens/hour or counts/minute) F. |
|----------|--------------------------|---------------------------|--------------------|------------------------|---|---|
| (1) | None | | | | | |
| (2) | | | | | | |
| (3) | | | | | | |
| (4) | | | | | | |

11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10

☐ a. CALIBRATED BY SERVICE COMPANY

NAME, ADDRESS, AND FREQUENCY

N. A.

☐ b. CALIBRATED BY APPLICANT

Attach a separate sheet describing method, frequency and standards used for calibrating instruments.

N. A.

12. PERSONNEL MONITORING DEVICES

| TYPE (Check and/or complete as appropriate.) A. | SUPPLIER (Service Company) B. | EXCHANGE FREQUENCY C. |
|---|--|--|
| <input checked="" type="checkbox"/> (1) FILM BADGE | R. S. Landauer, Jr. & Co. Glenwood Science Park Glenwood, Illinois 60425 | <input checked="" type="checkbox"/> MONTHLY |
| <input type="checkbox"/> (2) THERMOLUMINESCENCE DOSIMETER (TLD) | | <input type="checkbox"/> QUARTERLY |
| <input type="checkbox"/> (3) OTHER (Specify): _____ _____ | | <input type="checkbox"/> OTHER (Specify): _____ _____ |

13. FACILITIES AND EQUIPMENT (Check where appropriate and attach annotated sketch(es) and description(s).)

- ☐ a. LABORATORY FACILITIES, PLANT FACILITIES, FUME HOODS (Include filtration, if any), ETC.
- ☒ b. STORAGE FACILITIES, CONTAINERS, SPECIAL SHIELDING (fixed and/or temporary), ETC.
- ☐ c. REMOTE HANDLING TOOLS OR EQUIPMENT, ETC.
- ☐ d. RESPIRATORY PROTECTIVE EQUIPMENT, ETC.

14. WASTE DISPOSAL

a. NAME OF COMMERCIAL WASTE DISPOSAL SERVICE EMPLOYED

NA

b. IF COMMERCIAL WASTE DISPOSAL SERVICE IS NOT EMPLOYED, SUBMIT A DETAILED DESCRIPTION OF METHODS WHICH WILL BE USED FOR DISPOSING OF RADIOACTIVE WASTES AND ESTIMATES OF THE TYPE AND AMOUNT OF ACTIVITY INVOLVED. IF THE APPLICATION IS FOR SEALED SOURCES AND DEVICES AND THEY WILL BE RETURNED TO THE MANUFACTURER, SO STATE. If and when we dispose of our sealed sources, they will be returned to the manufacturer and the NRC will be notified.

INFORMATION REQUIRED FOR ITEMS 15, 16 AND 17

Describe in detail the information required for Items 15, 16 and 17. Begin each item on a separate page and key to the application as follows:

15. **RADIATION PROTECTION PROGRAM.** Describe the radiation protection program as appropriate for the material to be used including the duties and responsibilities of the Radiation Protection Officer, control measures, bioassay procedures (if needed), day-to-day general safety instruction to be followed, etc. If the application is for sealed source's also submit leak testing procedures, or if leak testing will be performed using a leak test kit, specify manufacturer and model number of the leak test kit.
16. **FORMAL TRAINING IN RADIATION SAFETY.** Attach a resume for each individual named in Items 6 and 7. Describe individual's formal training in the following areas where applicable. Include the name of person or institution providing the training, duration of training, when training was received, etc.
 - a. Principles and practices of radiation protection.
 - b. Radioactivity measurement standardization and monitoring techniques and instruments.
 - c. Mathematics and calculations basic to the use and measurement of radioactivity.
 - d. Biological effects of radiation.
17. **EXPERIENCE.** Attach a resume for each individual named in Items 6 and 7. Describe individual's work experience with radiation, including where experience was obtained. Work experience or on-the-job training should be commensurate with the proposed use. Include list of radioisotopes and maximum activity of each used.

| | |
|---------------------|-------------|
| Applicant | 25335-134 |
| Check No. | 2110 |
| Amount/Fee Category | Application |
| Type of Fee | |
| Date Check Recd. | |
| Received By | Down |

18. CERTIFICATE

This form must be completed by applicant.

| | |
|------------------|------------|
| RECEIVED BY LFMS | |
| Date | MAR 5 1979 |
| Log | MA PG 2 11 |
| By | Down |
| Orig. To | |
| Action Compl. | 3/7/79 |

The applicant and any official executing this certificate on behalf of the applicant named in Item 2, certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 30, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.

WARNING.—18 U.S.C., Section 1001; Act of June 25, 1948; 62 Stat. 749; makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

| | |
|---|--|
| a. LICENSE FEE REQUIRED (See Section 170.31, 10 CFR 170) \$110.00 | b. CERTIFYING OFFICIAL (Signature) Jon D. Mueller |
| (1) LICENSE FEE CATEGORY: New License | c. NAME (Type or print) Jon D. Mueller |
| (2) LICENSE FEE ENCLOSED: \$ 110.00 | d. TITLE Assistant Project Engineer |
| | e. DATE 2-20-79 |

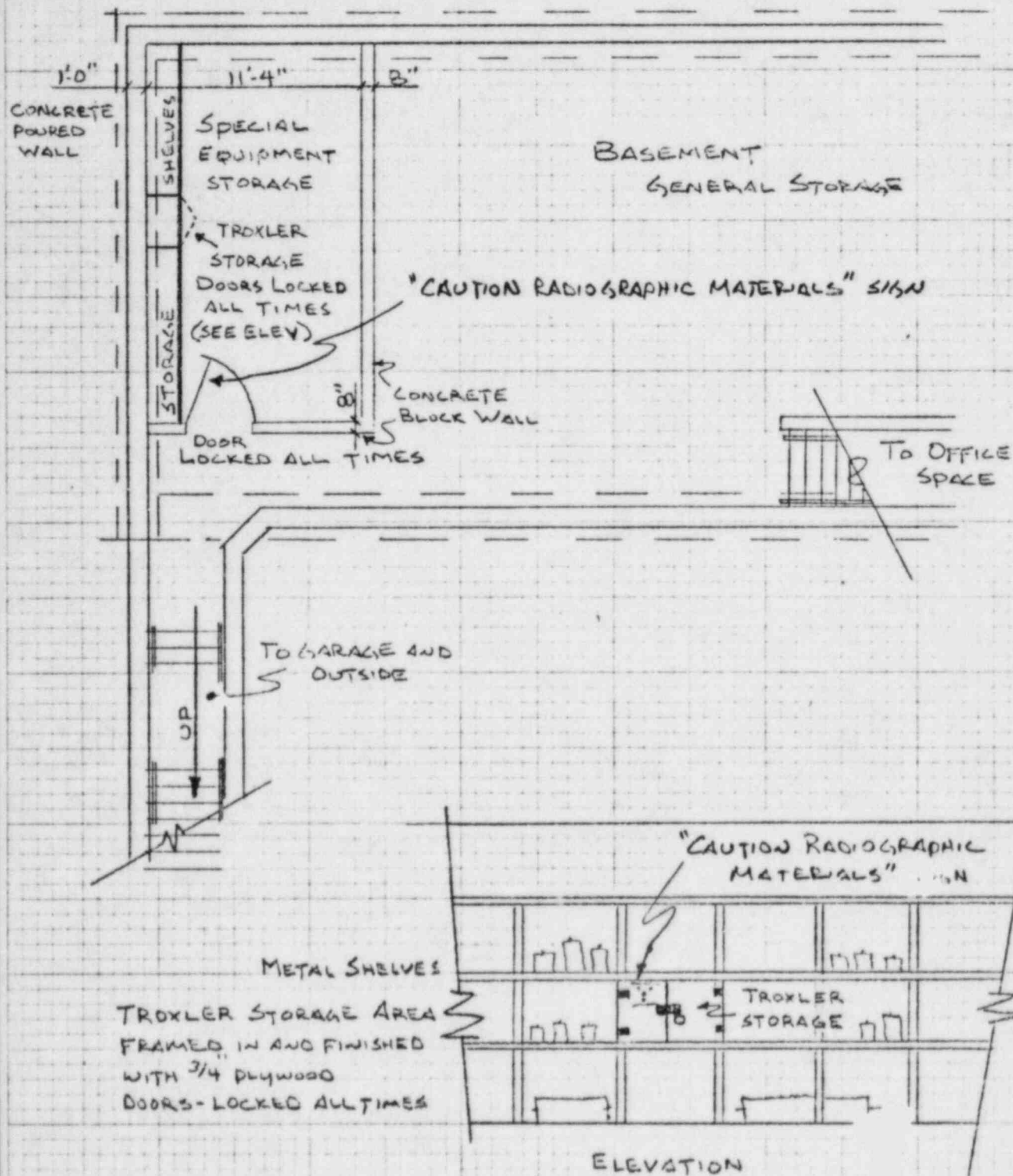
SOIL TESTING SERVICES OF WISCONSIN, INC.
540 Lambeau Street
Green Bay, Wisconsin 54303

Page #3

Item No. 5 Street Address where Licensed Material will be used.

Licensed material shall be used only at Soil Testing Services of Wisconsin, Inc., 540 Lambeau Street, Green Bay, Wisconsin, 54303 and at temporary job sites of the licensee anywhere in Wisconsin, Michigan and Minnesota where the Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.

#13. FACILITIES AND EQUIPMENT - STORAGE



STORAGE FACILITY

TROXLER NUCLEAR INST.



SOIL TESTING SERVICES
OF WISCONSIN, INC.

540 LAMBEAU ST.

GREEN BAY, WISCONSIN 54303

SOIL TESTING SERVICES OF WISCONSIN, INC.
540 Lambeau Street
Green Bay, Wisconsin 54303

Page #5

Item #15 - Radiation Protection Program

The writer, who is the Radiation Protection Officer, coordinates the safe use of the nuclear gauging devices and insures compliance with the requirements of the various federal regulations. Some of the duties of the Radiation Protection Officer are listed below.

Item A - Prepare and maintain a log for each instrument indicating the date the instrument was removed from the laboratory storage area and the date it was returned. We have attached copies of the various logs.

Item B - Checks to be sure that each personnel using the equipment also wears the film badge and they are returned each month.

Item C - Assures that each unit is properly stored in the laboratory facility and is properly transported to the job site in a manufacturer's approved shipping container. In addition, the instrument, when not in use at the job site, is stored in the shipping container and is under lock.

Item D - To assure that periodic leak tests are performed on each instrument and these records maintained as well as individual copies kept with each unit.

Unit E - To serve as a person to contact in case of emergencies. The writer's phone number is listed on a special cover sheet attached to the nuclear. Other emergency phone numbers are also listed. One of these sheets is attached to this letter.

SOIL TESTING SERVICES OF WISCONSIN, INC.

540 Lambeau Street
Green Bay, Wisconsin 54303

Page No. 5A

Item No. 15 - Radiation Protection Program

To ensure compliance with the provision of 10CFR Part 19, "Notices, Instructions and Reports to Workers, Inspection," and Part 20, "Standards for Protection Against Radiation", Soil Testing Services, Inc., has established the following procedures for usage of the nuclear density and moisture gauges.

Item A

Emergency Procedures in the event of accidents involving either damage or loss of gauge are included on the Radiological Assistance sheet shown in red attached to each unit. This sheet indicates the names and telephone numbers of individuals to be notified immediately in the event of an accident.

Item B

Safety measures to be used in transporting the devices and the user's vehicle shall include transporting the unit in the manufacturer's shipping container. The shipping container should be locked at all times. In addition, the shipping container should be away from the passenger compartment as far as possible.

Item C

To prevent unauthorized access to the unit, the unit or the shipping containers should be locked when not in use or when not under user's direct supervision. When the units are stored on the job site, the job construction trailer should be locked when the unit is not under the user's observation.

Item C

To prevent unauthorized use or removal of the gauges from the storage place in the laboratory, the door is locked at all times and only laboratory supervisors have the key.

Item D

The user is not to tamper with or dismantel or remove any parts of the gauges. Any servicing or internal adjusting or any dismanteling is to be performed by the manufacturer.

Item E

All maintenance and repair of gauges will be performed by the manufacturer.

SOIL TESTING SERVICES OF WISCONSIN, INC.
540 Lambeau Street
Green Bay, Wisconsin 54303

Page No. 5B

Item No. 15 Radiation Protection Program

Item F

Leak tests on each instrument is required every six months. The manufacturer will perform the test analysis - Troxler RK-1 Leak Test Kit.

Item G

Each user is required to keep with each unit the required license, leak test certificate, emergency procedures and the operator manual. Each user is required to wear a film badge when using the unit. The film badge is not to be stored any place near the unit.

If there are any questions with regard to the aforementioned, please contact your supervisor and the radiation protection officer.

Jon D. Mueller
Radiation Protection Officer

SOIL TESTING SERVICES OF WISCONSIN, INC.
540 Lambeau Street
Green Bay, Wisconsin 54303

Page No. 5C

Nuclear Check-Out

Troxler No. _____

Taken By _____

Date Taken _____

Date Returned _____

STS Job No. _____

Green Bay, Wisconsin 54303

Page No. 5D

[illegible]

Month of: _____

Troxler No.: _____

SOIL TESTING SERVICES OF WISCONSIN, INC.
540 Lambeau Street
Green Bay, Wisconsin 54303

Page No. 5E

RADIOLOGICAL ASSISTANCE

If an accident occurs involving radioactive materials or radiation producing machines, please call:

Soil Testing Services of Wisconsin, Inc.
Jon D. Mueller/Kenneth Kujava
414/494-9656

They will assist and advise you of precautionary measures to be taken prior to the arrival of professional personnel. If contact with the above cannot be made, please call:

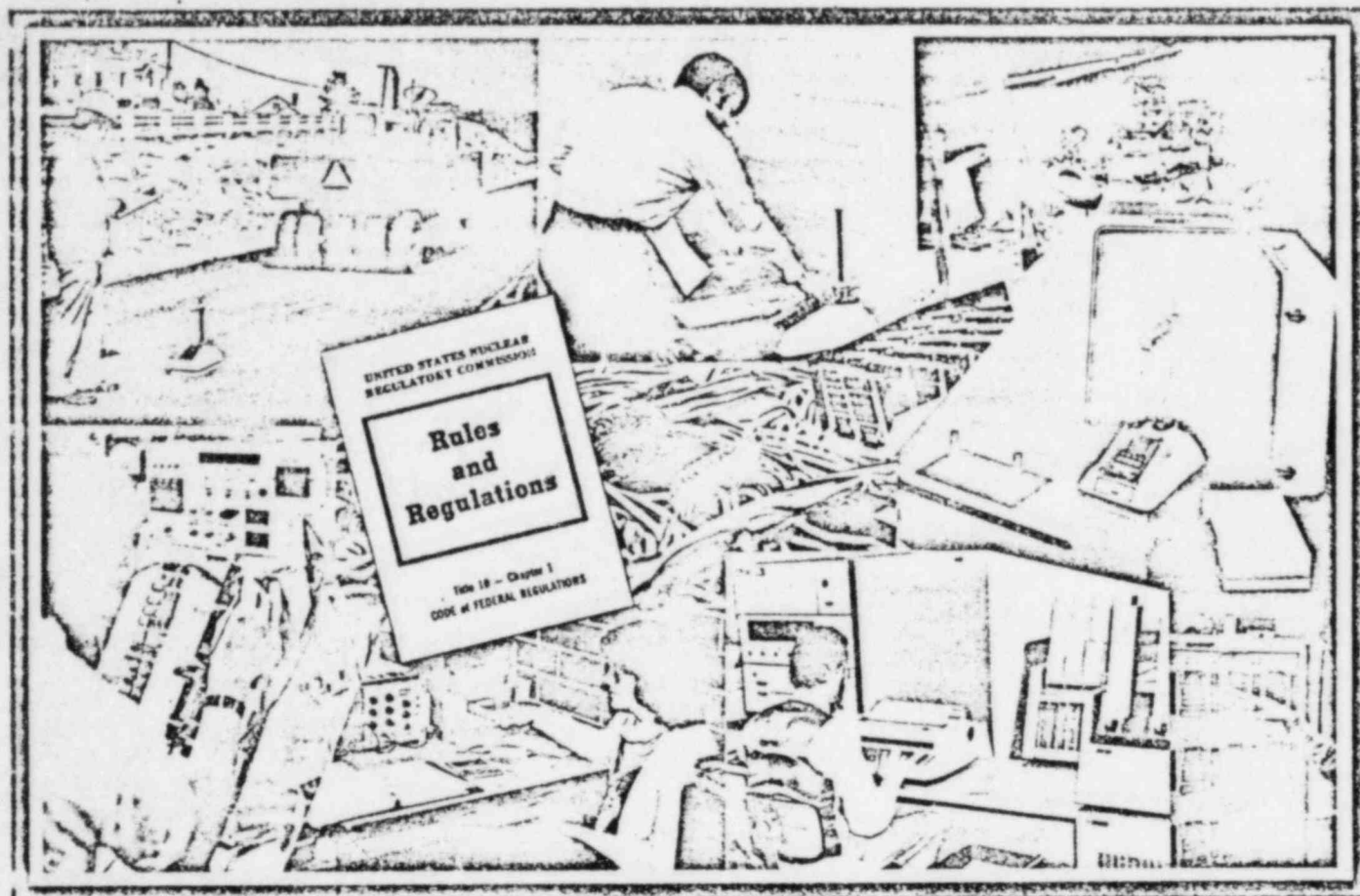
Troxler Electronic Laboratories, Inc.
919/549-8661

If contact with the above cannot be made please call:

~~Nuclear Regulatory Commission-Regional Office
Sam Pettijohn
312/858-2660~~

If contact with the above cannot be made please call:

Wisconsin Department of Health
Larry McDonald
608/266-1791



Nuclear Gauge and Radiation Safety Training by Troxler

Troxler Electronic Laboratories, Inc. historically has stressed the necessity of a comprehensive, in depth, course of instruction for all personnel involved in nuclear testing programs. Thousands of people from many different professions have learned the basics of nuclear gauging and testing by attending an annual series of Troxler nuclear gauge conferences; by attending monthly in plant instructional programs; or by participating in field programs held on customer jobsites. These programs have contributed greatly to the worldwide acceptance and understanding of nuclear testing.

An understanding of nuclear theory as it relates to gauges and their applications, gauge calibration techniques, and radiological safety coupled with a thorough knowledge of proper field operation and maintenance procedures is essential in insuring that tests are performed with maximum effectiveness and that resulting test data is properly interpreted.

Experienced Troxler sales engineers conduct instructional programs with support from research and development, service, and production personnel. An effort is made to tailor the presentation of subject matter to the background and experience of the program participants. Group interaction and discussion of the material being presented is encouraged. Common nuclear gauging pitfalls are identified, discussed, and methods of correction are presented.



TRAINING SCHEDULE

SUBJECTS

First Day - 9 AM to 5 PM

I. RADIOLOGICAL SAFETY

- A. Atomic Structure
- B. Radiation Characteristics
 - 1. Types of Radiation
 - 2. Types of Sources
 - 3. Radiation Units
 - 4. Exposure Limitations
 - 5. Shielding
 - 6. Operator Exposure
- C. Handling Procedures
- D. Disposal
- E. Security
- F. Personnel Monitoring
- G. Records and Reports
- H. Incidents
- I. NRC and Agreement State Regulations
- J. Licensing Requirements
- K. Transport and Shipping
- L. Leak Testing Procedure

II. THEORY OF MEASUREMENT

- A. Gamma Radiation and Matter
- B. Test Modes-Backscatter and Direct Transmission
- C. Neutron Radiation and Matter
- D. Moisture Test Mode

III. 3401 & 3411 FIELD MEASUREMENT

- A. Daily Standard Count
- B. Site Preparation
- C. Moisture and Density Measurements
- D. Moisture and Density Corrections
- E. Trench Measurements
- F. Control Strip
- G. Roof Moisture Measurements

IV. DEMONSTRATION OF GAUGE OPERATION AND FIELD MEASUREMENT TRAINING

Second Day - 9 AM to 1 PM

V. FACTORY CALIBRATION

- A. Density Calibration
- B. Density Performance Parameters
- C. Moisture Calibration
- D. Moisture Performance Parameters

VI. PERIODIC MAINTENANCE

VII. FIELD TROUBLESHOOTING AND SERVICE

VIII. COURSE REVIEW

TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

JON MUELLER

of

SOIL TESTING SERVICES OF WIS., 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. Leak testing procedures.
3. Mathematics and calculations basic to the use and measurement of radioactivity.
4. Biological effects of radiation.
5. Radioactivity measurement standardization 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

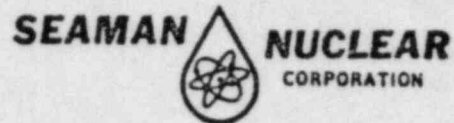

INSTRUCTOR

1/23-24/79

DATE

WILLIAM F. TROXLER

PRESIDENT



HEREBY CERTIFIES THAT ON

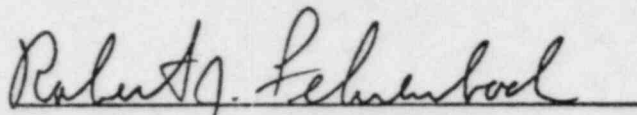
AUGUST 11, 1978


JON D. MUELLER

HAS SUCCESSFULLY COMPLETED THE FACTORY PRESCRIBED RADIOLOGICAL SAFETY TRAINING COURSE, THEORY, MAINTENANCE, AND OPERATION OF THE SEAMAN NUCLEAR SERIES OF NUCLEAR METERS.

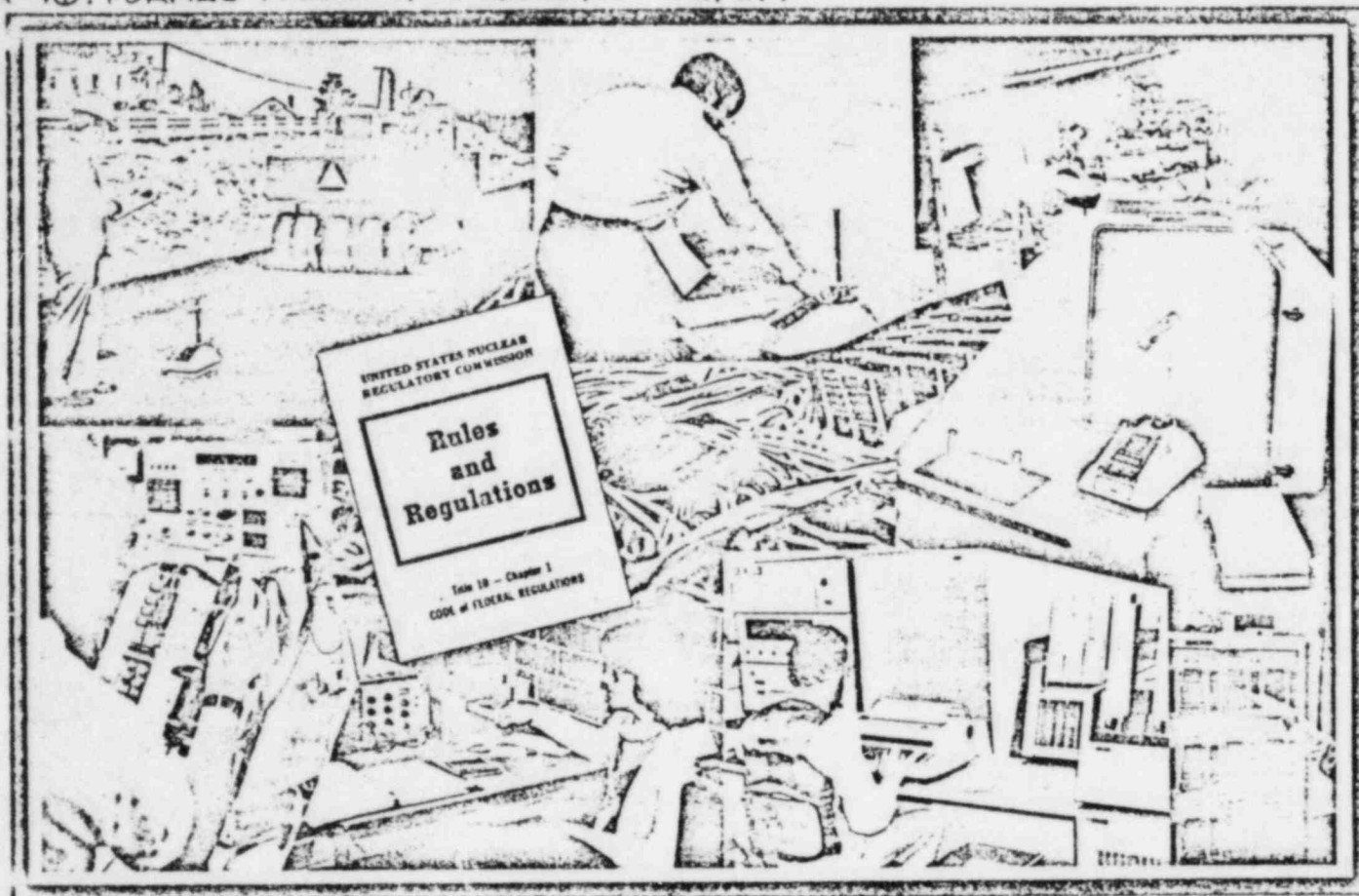
THIS FURTHER ATTESTS THAT THE ABOVE NAMED HAS MET ALL THE REQUIREMENTS OF ACCURACY IN TESTING SOILS, AGGREGATES, CONCRETES, ASPHALTIC CONCRETES, AND/OR ROOFING MOISTURE.

IN TESTIMONY WHEREOF, THIS CERTIFICATE HAS BEEN ISSUED BY AUTHORITY OF THE CORPORATION.


CHIEF RADIOLOGIST


PRESIDENT

Soil Testing Services of Wisconsin
Page No. 6C
Form #110, Formal Training in Radiation Safety
Jon Mueller
Item



Nuclear Gauge and Radiation Safety Training by Troxler

Troxler Electronic Laboratories, Inc. historically has stressed the necessity of a comprehensive, in depth, course of instruction for all personnel involved in nuclear testing programs. Thousands of people from many different professions have learned the basics of nuclear gauging and testing by attending an annual series of Troxler nuclear gauge conferences; by attending monthly in plant instructional programs; or by participating in field programs held on customer jobsites. These programs have contributed greatly to the worldwide acceptance and understanding of nuclear testing.

An understanding of nuclear theory as it relates to gauges and their applications, gauge calibration techniques, and radiological safety coupled with a thorough knowledge of proper field operation and maintenance procedures is essential in insuring that tests are performed with maximum effectiveness and that resulting test data is properly interpreted.

Experienced Troxler sales engineers conduct instructional programs with support from research and development, service, and production personnel. An effort is made to tailor the presentation of subject matter to the background and experience of the program participants. Group interaction and discussion of the material being presented is encouraged. Common nuclear gauging pitfalls are identified, discussed, and methods of correction are presented.



ITEM #16. FORMAL TRAINING IN RADIATION SAFETY

TRAINING SCHEDULE

SUBJECTS

First Day - 9 AM to 5 PM

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- A. Atomic Structure
- B. Radiation Characteristics
 - 1. Types of Radiation
 - 2. Types of Sources
 - 3. Radiation Units
 - 4. Exposure Limitations
 - 5. Shielding
 - 6. Operator Exposure
- C. Handling Procedures
- D. Disposal
- E. Security
- F. Personnel Monitoring
- G. Records and Reports
- H. Incidents
- I. NRC and Agreement State Regulations
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II. THEORY OF MEASUREMENT

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- C. Neutron Radiation and Matter
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- A. Daily Standard Count
- B. Site Preparation
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- D. Moisture and Density Corrections
- E. Trench Measurements
- F. Control Strip
- G. Roof Moisture Measurements

IV. DEMONSTRATION OF GAUGE OPERATION AND FIELD MEASUREMENT TRAINING

Second Day - 9 AM to 1 PM

V. FACTORY CALIBRATION

- A. Density Calibration
- B. Density Performance Parameters
- C. Moisture Calibration
- D. Moisture Performance Parameters

VI. PERIODIC MAINTENANCE

VII. FIELD TROUBLESHOOTING AND SERVICE

VIII. COURSE REVIEW

TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

KENNETH KUJAVA

of

SOIL TESTING SERVICES OF WIS., INC.

HAS SUCCESSFULLY COMPLETED THE TROXLER ELECTRONIC LABORATORIES, INC.
TRAINING COURSE FOR THE USE OF NUCLEAR TESTING EQUIPMENT.

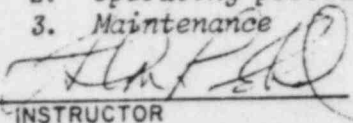
SUBJECTS INCLUDED IN THIS COURSE WERE AS FOLLOWS:

Radiological Safety

1. Principles and practices of radiation protection.
2. Leak testing procedures.
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4. Biological effects of radiation.
5. Radioactivity measurement standardization 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


INSTRUCTOR

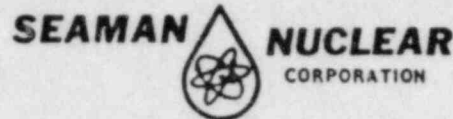
1/23-24/79

DATE

WILLIAM F. TROXLER

PRESIDENT

ITEM #110 - FORMAL TRAINING IN RADIATION SAFETY
PAGE NO. 06
SOIL TESTING SERVICES OF WIS.



HEREBY CERTIFIES THAT ON

MAY 12, 1978

KENNETH KUJAV

HAS SUCCESSFULLY COMPLETED THE FACTORY PRESCRIBED RADIOLOGICAL SAFETY TRAINING COURSE, THEORY, MAINTENANCE, AND OPERATION OF THE SEAMAN NUCLEAR SERIES OF NUCLEAR METERS.

THIS FURTHER ATTESTS THAT THE ABOVE NAMED HAS MET ALL THE REQUIREMENTS OF ACCURACY IN TESTING SOILS, AGGREGATES, CONCRETES, ASPHALTIC CONCRETES, AND/OR ROOFING MOISTURE.

IN TESTIMONY WHEREOF, THIS CERTIFICATE HAS BEEN ISSUED BY AUTHORITY OF THE CORPORATION.

Frederick P. Bohl

CHIEF RADIOLOGIST

D. J. Seaman

PRESIDENT

SOIL TESTING SERVICES OF WISCONSIN, INC.
540 Lambeau Street
Green Bay, Wisconsin 54303

Page No. 7

Item 17-Experience

Kenneth D. Kujava - Laboratory Supervisor - Soil Testing Services of Wisconsin, Inc.,
Green Bay, Wisconsin.

Education

Associates degree in Civil Highway Technology-June, 1966. NWTI, Green Bay, Wisconsin - credited and non-credited courses in the areas of business and earth sciences from UWGB and NWTI.

Certification - Engineering Technician as Certified by the Institute for Certification of Engineering Technicians, sponsored by the National Society of Professional Engineers.

Professional Activities

Wisconsin Society of Certified Engineering Technicians - Badger Chapter of Certified Engineering Technicians.

Experience

Mr. Kujava has and is presently in charge of all STS Wisconsin radium source nuclear density moisture meters. He has completed both the Seaman Nuclear and Troxler Electronic Laboratories training courses for the use of Nuclear Testing Equipment.

Mr. Kujava has been in charge of safety, maintenance and operational and training procedures of all STS, Wisconsin technicians for the use of the Seaman Nuclear Series of Nuclear Meters. He is also in charge of storage, shipping and handling of the nuclear meters.

Mr. Kujava's work experience includes testing of soils, aggregates, concrete, asphaltic concrete, and roofing moisture tests.

The radioactive material in the Seaman Nuclear meters is radium 226; berilium. The chemical and/or physical form of the radioactive material is contained in a sealed source. The maximum amount of radioactivity of each chemical and/or physical form that one would possess at any one time is $4.5 \text{ mCi} \pm 10\%$.

SOIL TESTING SERVICES OF WISCONSIN, INC.
540 Lambeau Street
Green Bay, Wisconsin 54303

Page No. 7A

Jon D. Mueller - Assistant Project Engineer - Soil Testing Services of Wisconsin, Inc.,
Green Bay, Wisconsin

Education

Associates degree in Architectural Building Construction and Engineering Technology
June, 1977, Milwaukee School of Engineering, Milwaukee, Wisconsin. Bachelor of
Science degree - Architectural Building Construction and Engineering Technology
1978, Milwaukee School of Engineering, Milwaukee, Wisconsin.

Professional Activities

Construction Specifications Institute

The American Society for Non-Destructive Testing, Inc.

Experience

Mr. Mueller has attended both the Seaman Nuclear and Troxler Electronics
safety training courses for the use of Nuclear Testing Equipment. Mr. Mueller
has been a co-worker to Mr. Kujava in the radiological safety training maintenance
and operational procedures of the Seaman Nuclear series of nuclear meters.

Mr. Mueller has had experience in the testing of soils, aggregates, concrete,
asphaltic concrete and roofing moisture tests with the nuclear density meter.

The radioactive material in the Seaman Nuclear meters is radium 226: berilium.
The chemical and/or physical form of the radioactivity of each chemical and/or
physical form that one would possess at any one time is 4.5 mCi \pm 10%.