

APPLICATION FOR MATERIAL LICENSE

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

FEDERAL AGENCIES FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS
WASHINGTON, DC 20555

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS, IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I
NUCLEAR MATERIAL SECTION B
631 PARK AVENUE
KING OF PRUSSIA, PA 19406

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION II
MATERIAL RADIATION PROTECTION SECTION
101 MARIETTA STREET, SUITE 2900
ATLANTA, GA 30323

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION III
MATERIALS LICENSING SECTION
789 ROOSEVELT ROAD
GLEN ELLYN, IL 60137

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
MATERIAL RADIATION PROTECTION SECTION
611 RYAN PLAZA DRIVE, SUITE 1000
ARLINGTON, TX 76011

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION V
MATERIAL RADIATION PROTECTION SECTION
1460 MARIA LANE, SUITE 210
WALNUT CREEK, CA 94596

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTION.

1. THIS IS AN APPLICATION FOR (Check appropriate item)

- ☒ A. NEW LICENSE
☐ B. AMENDMENT TO LICENSE NUMBER _____
☐ C. RENEWAL OF LICENSE NUMBER _____

2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code)

U. S. Department of Labor
Mine Safety & Health Administration
P O Box 418, 501 Busseron Street
Vincennes, IN 47591

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED.

At the address listed in Item 2 and at temporary job sites in Indiana, Illinois, Iowa and Missouri.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

TELEPHONE NUMBER

SUBMIT ITEMS 5 THROUGH 11 ON 8 1/2 x 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL

a. Element and mass number, b. chemical and/or physical form, and c. maximum amount which will be possessed at any one time.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY 3P AMOUNT ENCLOSED \$ Jack Whitten, waived per

13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE NRC, BINDING UPON THE APPLICANT. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN, IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF. NRC, Arlington, TX

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.

SIGNATURE—CERTIFYING OFFICER

TYPED/PRINTED NAME

TITLE

DATE

Maurice S. Childers

M. S. Childers

District Manager

1/4/88

14. VOLUNTARY ECONOMIC DATA

a. ANNUAL RECEIPTS

| | |
|-------------|-----------|
| <\$250K | \$1M-3.5M |
| \$250K-500K | \$3.5M-7M |
| \$500K-750K | \$7M-10M |
| \$750K-1M | >\$10M |

b. NUMBER OF EMPLOYEES (Total for entire facility excluding outside contractors)

c. NUMBER OF BEDS

d. WOULD YOU BE WILLING TO FURNISH COST INFORMATION (Dollar and/or staff hours) ON THE ECONOMIC IMPACT OF CURRENT NRC REGULATIONS OR ANY FUTURE PROPOSED NRC REGULATIONS THAT MAY AFFECT YOU? (NRC regulations permit it to protect confidential commercial or financial—proprietary—information furnished to the agency in confidence)

YES

TYPE OF FEE

FEE LOG

FEE CATEGORY

COMMENTS

FOR NRC USE ONLY

890313 0773 890304
REG3 LIC30
13-25869-01 PNU

CONTROL NO. 84713

DATE

1/20/88

PRIVACY ACT STATEMENT

Pursuant to 5 U.S.C. 552a(e)(3), enacted into law by section 3 of the Privacy Act of 1974 (Public Law 93-579), the following statement is furnished to individuals who supply information to the Nuclear Regulatory Commission on NRC Form 313. This information is maintained in a system of records designated as NRC-3 and described at 40 Federal Register 45334 (October 1, 1975).

1. **AUTHORITY:** Sections 81 and 161(b) of the Atomic Energy Act of 1954, as amended (42 U.S.C. 2111 and 2201(b)).
2. **PRINCIPAL PURPOSE(S):** The information is evaluated by the NRC staff pursuant to the criteria set forth in 10 CFR Parts 30, 32, 33, 34, 35 and 40 to determine whether the application meets the requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations, for the issuance of a radioactive material license or amendment thereof.
3. **ROUTINE USES:** The information may be (a) provided to State health departments for their information and use; and (b) provided to Federal, State, and local health officials and other persons in the event of incident or exposure, for their information, investigation, and protection of the public health and safety. The information may also be disclosed to appropriate Federal, State, and local agencies in the event that the information indicates a violation or potential violation of law and in the course of an administrative or judicial proceeding. In addition, this information may be transferred to an appropriate Federal, State, or local agency to the extent relevant and necessary for an NRC decision or to an appropriate Federal agency to the extent relevant and necessary for that agency's decision about you.
4. **WHETHER DISCLOSURE IS MANDATORY OR VOLUNTARY AND EFFECT ON INDIVIDUAL OF NOT PROVIDING INFORMATION:** Disclosure of the requested information is voluntary. If the requested information is not furnished, however, the application for radioactive material license, or amendment thereof, will not be processed. A request that information be held from public inspection must be in accordance with the provisions of 10 CFR 2.790. Withholding from public inspection shall not affect the right, if any, of persons properly and directly concerned need to inspect the document.
5. **SYSTEM MANAGER(S) AND ADDRESS:** U.S. Nuclear Regulatory Commission
Director, Division of Fuel Cycle and Material Safety
Office of Nuclear Material Safety and Safeguards
Washington, D.C. 20555

ITEM 5 - RADIOACTIVE MATERIAL

| Radioisotope | Form | Troxler Drawing # | Maximum Amount |
|--------------|--------------|-------------------|-------------------|
| A. Cs-137 | Special Form | A-102112 | NTE 9 mCi/source |
| B. AM241:Be | Special Form | A-102451 | NTE 44 mCi/source |

ITEM 6 - MATERIAL USE

- A. For use in a Troxler Model 3411 portable measuring gauge.
- B. For use in a Troxler Model 3411 portable measuring gauge.

ITEM 7 - RADIATION SAFETY OFFICER

Mark D. Eslinger has been designated as the Radiation Safety Officer for the Mine Safety and Health Administration, Coal Mine Safety and Health, in Vincennes, Indiana. A copy of his Troxler Nuclear Gauge Training Certificate is attached for your review. The duties of the Radiation Safety Officer are specified in Item 10.

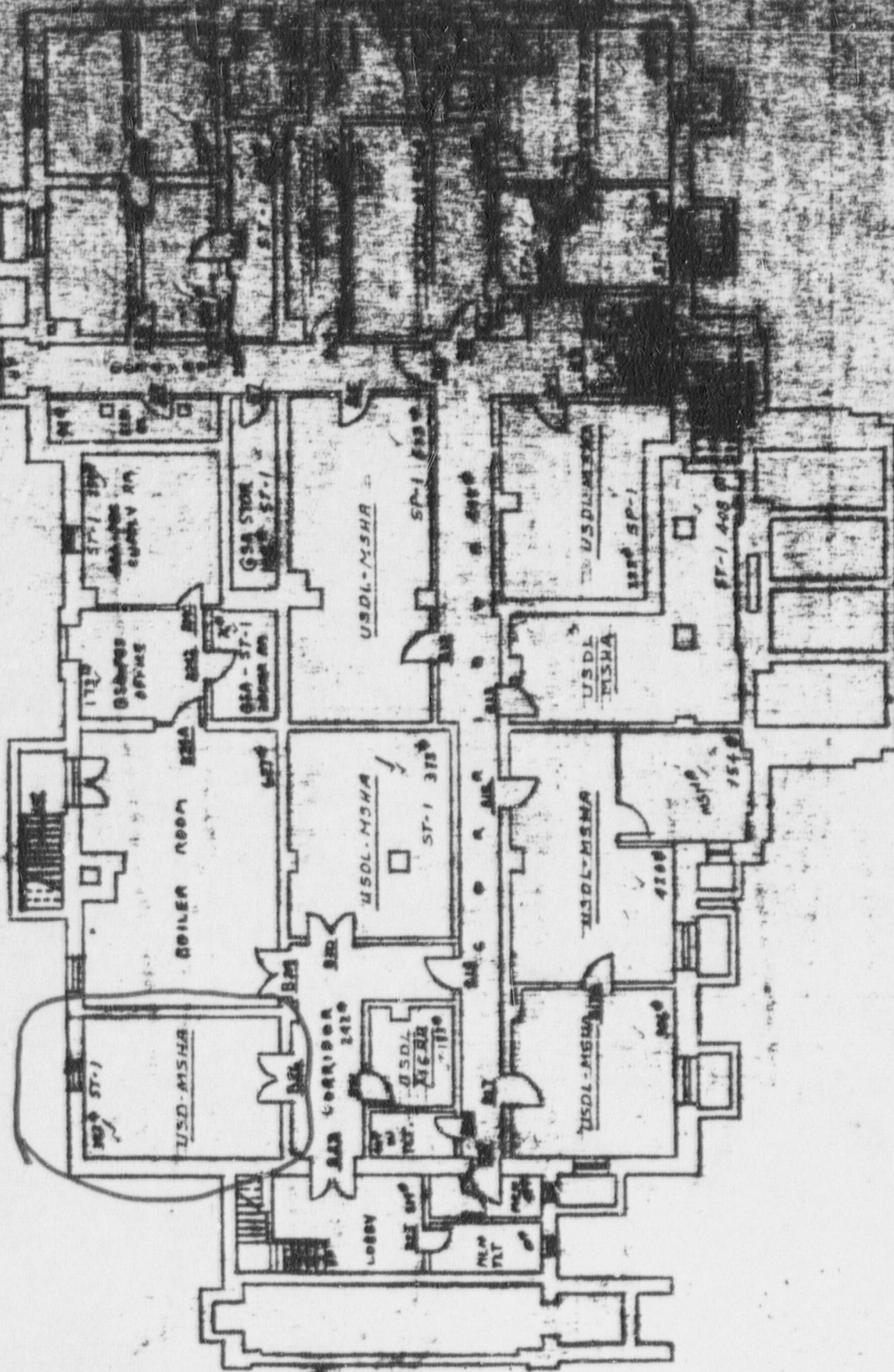
ITEM 8 - TRAINING OF GAUGE USERS

Each individual who will operate the nuclear gauge will complete the Troxler nuclear gauge training course, read and understand the radiation safety procedures established by the Mine Safety and Health Administration, District 8, and will be approved by our Radiation Safety Officer. Copies of each person's training certificate will be maintained on file in the District Office.

ITEM 9 - GAUGE STORAGE AREA

A sketch of the gauge storage area is attached. The gauge will be stored in a locked cabinet inside a locked storage room at all times when not in use. The key to the cabinet will be in the possession of the Radiation Safety Officer. The key to the storage room is in the possession of the District's Purchasing Agent.

Gause will be
Stored in Room B216



BASEMENT FLOOR PLAN

SCALE: 1/16" = 1'-0"

RADIATION SAFETY PROGRAM

Item 10

1. Radiation Safety Officer

A. Mark D. Eslinger has been designated as the Radiation Safety Officer for the Mine Safety and Health Administration, Coal Mine Safety and Health, District 8, and will assume the following duties and responsibilities.

1. To ensure that all terms and conditions of the license are being met and that the information contained in the license is up to date.
2. To ensure that the equipment has been leak tested in the required timely manner and that the leak test is performed in the manner prescribed by the equipment manufacturer.
3. To ensure that the use of the equipment is only by individuals that have been authorized by the Radiation Safety Officer and that all users wear personnel monitoring equipment when using the equipment.
4. To maintain the records as required by the license and the regulations. These records shall include personnel exposure records, leak test records and training certificates for all users.
5. To ensure that the equipment is properly secured against unauthorized removal at all times when it is not in use.
6. To serve as a point of contact and give assistance in case of emergency such as equipment damaged in the field or theft and to notify the proper authorities in case of emergency.
7. To ensure that all users have read and understand the radiation safety operating and emergency procedures.

2. Operating Procedures

A. Transportation of Equipment

1. The equipment shall be transported in the trunk of passenger vehicles, away from the passenger compartment. The equipment shall be secured to prevent unnecessary movement within the trunk compartment. If

the equipment is transported in an open bed vehicle, the gauge will be securely fastened and locked to the truck bed.

2. The gauge will be transported in the TROXLER transportation case, which meets requirements established by the U. S. Department of Transportation.

3. At all times during transport, the operator will have a properly completed Bill of Lading for each gauge.

B. UTILIZATION PROCEDURES

1. When the gauge is being used in the field, the authorized operator must maintain control over the gauge at all times. The gauge must never be left unattended.

2. When not making measurements, the gauge should be placed in the transportation case and returned to its permanent storage area as soon as possible. The gauge is to be used for its intended purpose only. By doing so, radiation exposure will be kept as low as reasonably attainable.

3. All persons using the equipment will wear a personnel monitoring device. A device will be assigned to all users. When the equipment is not in use, the monitoring device will be stored in a radiation free area that has been designated in the office.

C. MAINTENANCE AND LEAK TEST PROCEDURES

1. Periodic maintenance will include cleaning the gauge. The personnel monitoring device must be worn during maintenance activities.

2. No maintenance will be performed in which the radioactive source is removed from the gauge. The gauge will be returned to the manufacturer for this type of maintenance.

3. Leak tests will be performed according to the manufacturer's instructions using the TROXLER Model 3880 Leak Test Kit. The personnel monitoring device will be worn during leak test procedures. Gauges will be leak tested at intervals not to exceed 6 months.

3. EMERGENCY PROCEDURES

A. In the event of physical damage to a gauge, the following steps will be taken:

1. The area around the gauge will be immediately cordoned off for an area radius of 15 feet.
2. If the gauge is located inside a vehicle at the time damage occurs, the vehicle will be stopped until the extent of contamination, if any, can be established.
3. A visual inspection of the gauge will be made to determine if the source housing and/or shielding has been damaged.
4. At the earliest possible time, when the situation is under control, the user will contact Mark O. Eslinger, Radiation Safety Officer, at 812-882-7617, or FTS 331-8131. The present conditions will be described to the Radiation Safety Officer, and the user will follow the instructions given by the RSO.

B. In the event the gauge is lost or stolen, the Radiation Safety Officer as listed above in Item 3.A.4 will be notified immediately.

TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

MARK O. ELSINGER

of

M.S.H.A.

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

W. F. Troxler
INSTRUCTOR

12/10/87
DATE

W.F. Troxler
PRESIDENT

Nº 20155

ITEM 11 - WASTE MANAGEMENT

Disposal of the gauge will be by transfer to another facility specifically licensed for the material or by return to the manufacturer. Records of the transfer will be maintained on file.

CONTROL NO 84713