

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 2
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
799 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
1450 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)

SHIAWASSEE COUNTY ROAD COMMISSION
112 EAST McARTHUR STREET
CORUNNA, MICHIGAN 48817

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

SHIAWASSEE COUNTY ROAD COMMISSION
112 EAST McARTHUR STREET
CORUNNA, MICHIGAN 48817

AT TEMPORARY JOB SITES AND
THROUGHOUT THE COUNTY

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Gerald H. Streichert P.E.

TELEPHONE NUMBER

517-743-2228

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

AMOUNT

ENCLOSED \$ FEE EXEMPT

13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE 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.

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

Gerald H. Streichert

Gerald H. Streichert

Construction Engineer

1-23-89

1. ANNUAL RECEIPTS

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

3. WOULD YOU BE WILLING TO FURNISH COST INFORMATION (Labor 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)

4. NUMBER OF BEDS

☐ YES

☐ NO

FOR NRC USE ONLY

TYPE OF FEE

FEE LOG

FEE CATEGORY

COMMENTS

APPROVED BY

AMOUNT RECEIVED

CHECK NUMBER

DATE

app
Feb 4

EX 3P

FEE EXEMPT

CONTROL NO. 116764

JAN 26 1989

2/3/89

8903170055 890217
REG3 LIC30
21-26008-01 PNU

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

#5 RADIOACTIVE MATERIAL

	A. Radioisotope	B. Form	C. Maximum Amount
A.	CS-137	Special Form	Not to Exceed 9 MCI per source
B.	AM241Be	Special Form	Not to Exceed 44 MCI per source
C.	AM241Be	Special Form	Not to Exceed 300 MCI per source

#6 Purposes for which Licensed Material will be used

- A. For use in a Troxler model 3400 series, or 4640, or 4545, or 3565 portable measuring gauge, and 1300 series depth density gauge.
- B. For use in a Troxler model 3400 series, or 3216, or 3218 portable measuring gauge.
- C. For use in a Troxler model 3241 portable measuring gauge.

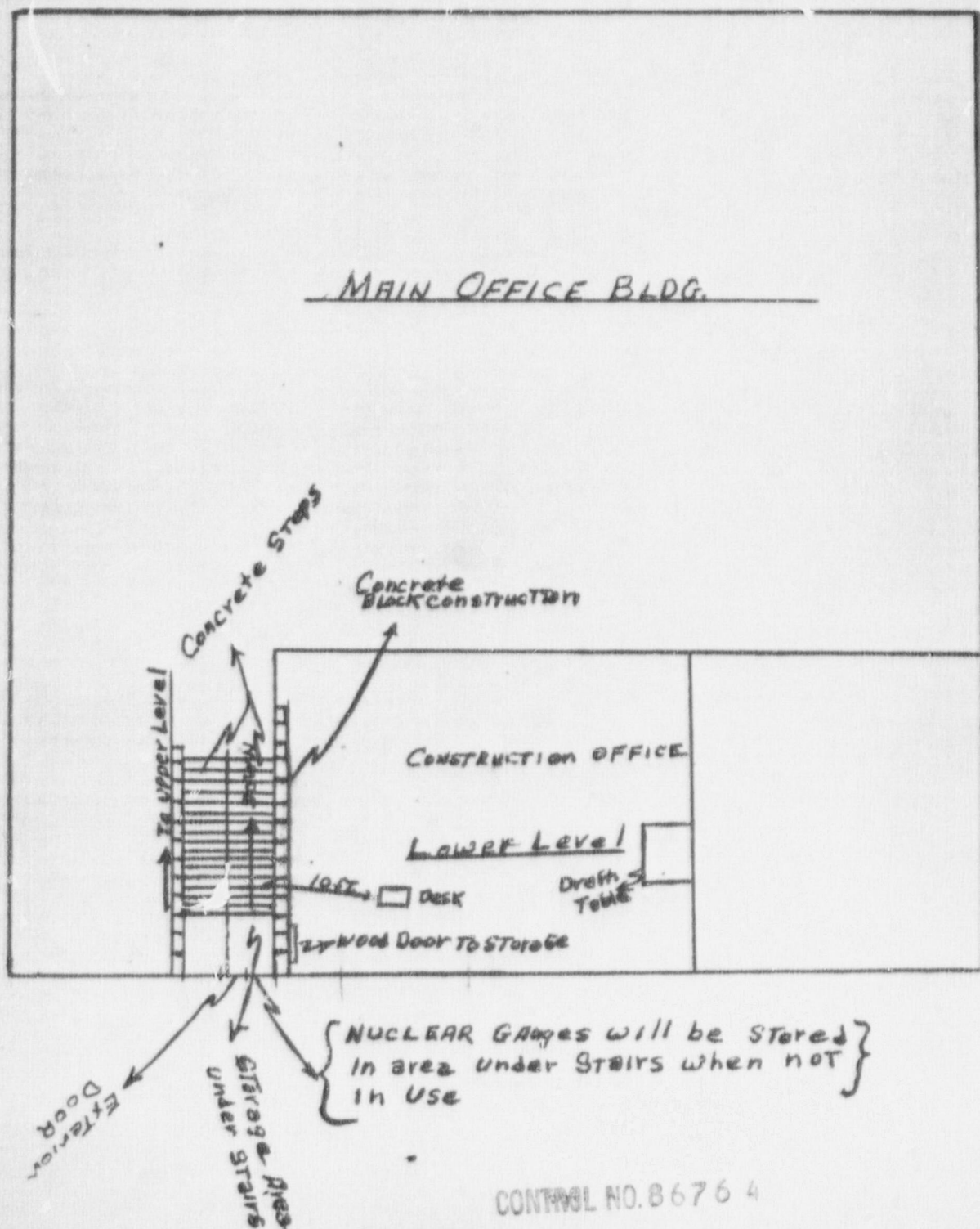
#7. Gerald H. Streichert has been designated as the Radiation Safety Officer for the Shiawassee County Road Commission. A copy of his Troxler Nuclear Gauge Training Certificate is attached for your review. The Radiation Safety program is explained in item 10. This section also explains the duties of the Radiation Safety Officer.

#8 Each individual that will be expected to operate our nuclear gauges will be required to complete the Troxler Nuclear Gauge training course. He will also be required to understand the radiation and safety procedures established by this organization. In addition he will be tested and approved by our Radiation Safety Officer. We will maintain copies of each individuals training certificate in our file.

#9 SEE ATTACHED SKETCH

#9 Keys To The Storage Area will be in the possession of the Radiation SASTY OFFICER and The County Highway Engineer WAYNE K. WARD.

The distance To The nearest occupied area is approximately 10 ft. however The area is separated by a wall of concrete Block Construction.



CONTROL NO. 86764

#10 RADIATION SAFETY PROGRAM

A. Gerald H. Streichert has been assigned the duties of Radiation Safety Officer for the Shiawassee County Road Commission. The affore mentioned duties are as follows.

- 1.) To maintain all conditions of the License and to keep all information included in the License up to date.
- 2.) To provide for leak testing of the equipment in a timely manner, and to make sure that leak tests are performed in a manner prescribed by the manufacturer of the equipment.
- 3.) To be sure that no one operates the equipment other than those that have been authorized by the Radiation Safety Officer and that personnel wear approved monitoring equipment when using the gauges.
- 4.) To maintain the following records as required by the license and the regulations:
 - (a) Personnel exposure records
 - (b) Leak test records
 - (c) Training Certificates for all users
- 5.) To be sure that the equipment is in its approved secured container at all times when it is not in use, to prevent unauthorized removal.
- 6.) To serve as contact person and provide assistance in case of theft or equipment damage in the field. The Safety Officer would also notify the proper authorities in the event of an emergency.
- 7.) To be sure that all users are familiar with the radiation safety operating and emergency procedures.

B. Transportation of equipment

- 1.) When transporting, the equipment shall at all times be fully secured in the transporting vehicle and the equipment should be kept away from the passenger compartment. In an enclosed vehicle(car or van) the vehicle will be locked. When transporting in an open bed vehicle, the equipment should be securely fastened and locked to the bed.
- 2.) The U.S. Department of Transportation requires that the gauge be transported in a properly labeled carrying case. We will use the specially designed TROXLE[®] transportation case.
- 3.) At all times during transport, the operator will have a Properly Completed Bill of Lading for each gauge.

UTILIZATION PROCEDURES

- 1.) When the gauge is in the field, the authorized user must maintain control over the gauge at all times. Never leave the gauge unattended.
- 2.) When not in use, the gauge should be returned to its transportation case. If no further tests are to be performed that day, the gauge should be returned to its permanent storage location at your earliest convenience. By following this procedure, radiation exposure will be kept as low as possible.
- 3.) When the equipment is in use, the operator will wear his personal monitoring device that has been assigned to him. When the equipment is not being used, the monitoring device should be stored in an assigned radiation free location.

Maintenance and Leak Test Procedures

- 1.) Periodic maintenance will include cleaning the gauge. When maintaining the equipment, your personal monitoring device must be worn at all times.
- 2.) At no time will maintenance be performed that requires removal of the radioactive source from the gauge. That type of gauge maintenance must be done by the manufacturer or other authorized agents.
- 3.) The leak test will be performed using the Troxler Model 3880 Leak Test Kit and the manufacturers instructions. The monitoring device must be worn when performing this test. Leak tests will be performed at least every six months.

Emergency Procedures

- a. In the event of physical damage to a gauge, the following will be performed:
 1. Immediately Rope Off an area, a minimum of 15 ft. around the gauge.
 2. If a vehicle is involved it must not be moved from the scene until it can be established if any contamination has occurred.
 3. A visual inspection of the gauge must be made to determine if the source housing or shielding has been damaged.
 4. At the earliest possible time, when the situation is under control, you must contact Gerald H. Streichert at 517-743-2228. You must explain the existing condition, and follow the instructions of the Radiation Safety Officer.

F. In the event the gauge is lost or stolen, the Radiation Safety Officer must be notified immediately.

#11 Waste Management

Disposal of the gauge will be by transfer to another facility specifically licensed for the material: or returned to the gauge manufacturer. All records of a transfer must be maintained on file.

TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

G.H. STREICHERT, P.E.

of

SHIAWASSEE COUNTY ROAD COMMISSION

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

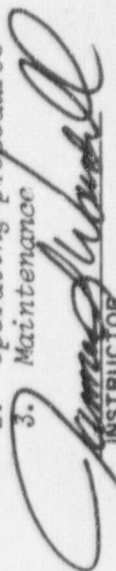
SUBJECTS INCLUDED IN THIS COURSE WERE AS FOLLOWS:

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

JULY 12, 1988

DATE

No 26967

W.F. TROXLER

PRESIDENT

CONTROL NO. 8676 4