

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 8
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 13-18990-01

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

STS Consultants, Ltd.
3306 N. Greenriver Road
Evansville, IN 47715

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

3306 N. Greenriver Road
Evansville, IN 47715

8510030236 850909
REG3 LIC30
13-18990-01 PDR

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Richard N. Barr

TELEPHONE NUMBER

(812) 476-3007

SUBMIT ITEMS 5 THROUGH 11 ON 5 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. See Attachment

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

See Attachment

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

See Attachment

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

See Attachment

9. FACILITIES AND EQUIPMENT.

See Attachment

10. RADIATION SAFETY PROGRAM.

See Attachment

11. WASTE MANAGEMENT.

See Attachment

12. LICENSEE FEES (See 10 CFR 170 and Section 170.311)

FEE CATEGORY AMOUNT
ENCLOSED \$ 150.00

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



Richard N. Barr

Area Manager

8/15/85

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

FOR NRC USE ONLY

TYPE OF FEE Renewal	FEE LOG Sept 30	FEE CATEGORY 3P	COMMENTS \$30 refund	APPROVED BY REGION III DATE 9/5/85
AMOUNT RECEIVED \$150-\$30 refunded	CHECK NUMBER 185	CONTROL NO. 70624		

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

RECEIVED
JAN 10 1976
REGION III

STS CONSULTANTS, INC.
3306 N. Greenriver Road
Evansville, IN 47715

Application for Renewal of Material License No. 13-18990-01

Item #5 - Radioactive Material

a. Element and Mass Number	b. Chemical and/or Physical Form	c. Maximum Amount which will be possessed at any one time
A. Cesium-137	A. Sealed Sources (Troxler Electronics Dwg. No. A-102112)	A. No single source to exceed 9 millicuries
B. Americium-241	B. Sealed sources (Troxler Electronics Dwg. No. A-102451)	B. No single source to exceed 50 millicuries
C. Cesium-137	C. Sealed sources (Campbell Pacific Model No. CPN-131)	C. No single source to exceed 10 millicuries
D. Americium-241	D. Sealed sources (Campbell Pacific Model No. CPN-131)	D. No single source to exceed 50 millicuries
E. Cesium-137/ Americium-241	E. Sealed Sources (New England Nuclear Model No. NER-560)	E. No single source to exceed 11 millicuries Cesium-137 and 60 millicuries Ameri- cium-241

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Item #6 - Purpose(s) for Which Licensed Material will be Used

All radio-nuclei materials are sealed sources contained in moisture density gauges by the manufacturers as stated in Item #5.

These gauges are utilized by qualified and certified personnel for measuring moisture and surface density of soils and construction materials.

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Item #7 - Individual(s) Responsible for Radiation Safety Program and their
Training and Experience

Richard N. Barr
Area Manager
STS Consultants, Ltd.
3306 N. Greenriver Road
Evansville, IN 47715

Formal Training in Radiation Safety

Received formal training in course sponsored by Troxler Electronics Laboratories, Inc., March 31, 1979. Subjects included in this course were as follows:

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.

Experience

Employed for seven years by STS Consultants, Ltd. Extensive in-field and supervisory use of Seamen C75, C100, CPN-131, and Troxler 3411-B Nuclear Density Meters.

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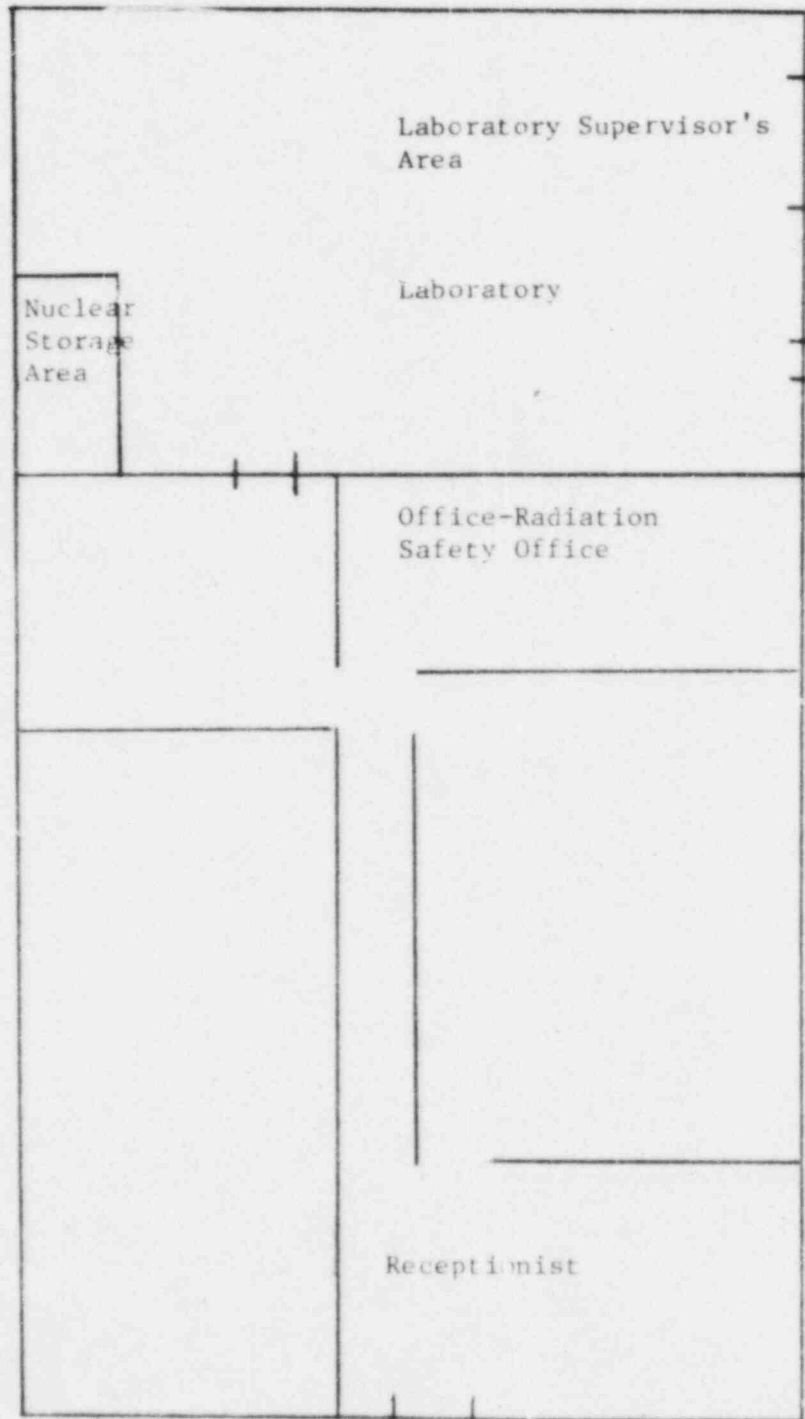
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Item #8 - Training for Individuals working in or Frequenting Restricted Areas

Individuals working in or frequenting restricted areas must be familiar with the Radiation Safety and Emergency Procedures Program as outlined in Item 10.

Sketch of Nuclear Handling and Storage - State of Indiana Application
for Radioactive Material Licenses, Ovestion #13 by STS Consultants, Ltd.,
Evansville, Indiana

All exterior and laboratory doors locked except during normal business hours.
To remove a nuclear density meter you must pass lab supervisor, safety officer,
and/or receptionist.



Sketch of Nuclear Handling and
Storage at STS Consultants, Ltd.
in Evansville, Indiana



STS Consultants Ltd.

3306 N. Greenriver Rd.
Evansville, IN

8/15/85

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STS CONSULTANTS, LTD.
3306 N. Greenriver Road
Evansville, IN 47715

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Item #10 - Radiation Safety Program

STS CONSULTANTS, LTD.

RADIATION SAFETY & EMERGENCY PROCEDURES PROGRAM

To ensure compliance with the provisions of 10CFR Part 19, "Notices, Instruction and Reports to Workers, Inspection," and Part 20, "Standards for Protection Against Radiation". STS Consultants, Ltd. 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 D

To prevent unauthorized use or removal of the gauges from the storage place in the laboratory, the rear doors are locked at all times and only laboratory supervisors have the key. Removal of a gauge from the front requires passing by the radiation protection officer and the secretary.

Item E

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 F

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

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Item #10 Continued - Radiation Safety Program - Page 2

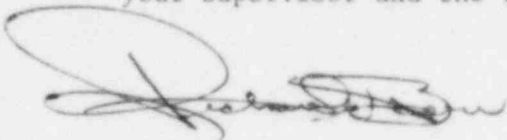
Item G

Leak tests on each instrument is required every six months. We will perform this test. Leak tests are analyzed by Health Physics Associates, Ltd./ 3304 Commercial Avenue/ Northbrook, IL 60062

Item H

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.



Richard N. Barr
Radiation Protection Officer

STS CONSULTANTS, LTD.
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Item #10 Continued

EMERGENCY PROCEDURES

1. If gauge is severely damaged or destroyed;
 - a. Close off area within a 3 ft. radius of gauge.
 - b. Attempt to determine if sealed source has been ruptured.
 - c. Call radiation protection officer.
 - d. R.P.O. will notify gauge manufacturer and Nuclear Regulatory Commission.
2. If gauge has been stolen:
 - a. Call local police department.
 - b. Call radiation protection officer.
 - c. R.P.O. will notify N.R.C. and gauge manufacturer.

Radiation Protection Officer
Nuclear Regulatory Commission
Troxler Electronic Laboratories

(812) 476-3007 (collect)
(312) 932-2500
(312) 587-7273

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Item #10 Continued

DUTIES AND RESPONSIBILITIES OF RADIATION SAFETY OFFICER

1. To assure that byproduct materials possessed under the license conform to the materials listed on the license.
2. To assure that use of the devices, particularly in the field, is only by individuals authorized by the license.
3. To assure that all users wear film badges when required.
4. To assure that gauges are properly secured against unauthorized removal at all times when they are not in use.
5. To serve as a point of contact and give assistance in case of emergency (guage damage in the field, fire, theft, etc.) to assure that proper authorities, for example, NRC, local police, and State personnel, are notified promptly in case of accident or damage to gauges.
6. To assure that the terms and conditions of the license such as periodic leak tests, are met and that the required records, such as personnel exposure records, leak test records, etc., are periodically reviewed for compliance with Nuclear Regulatory Commission regulations, requirements, and license conditions.

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Item #11 - Waste Management

When gauges are no longer needed, they are shipped back to the manufacturer for proper disposition.