

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.

APPLICATIONS FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS
WASHINGTON, DC 20546

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

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION I
NUCLEAR MATERIALS SAFETY SECTION B
63 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
NUCLEAR MATERIALS SAFETY SECTION
101 MARIETTA STREET, SUITE 2800
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
797 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
NUCLEAR MATERIALS SAFETY 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 10-16458-01
☐ C. RENEWAL OF LICENSE NUMBER _____

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

DA, U.S. Army Corps of Engineers
South Atlantic Division Laboratory
611 South Cobb Drive
Marietta, Georgia 30060-3112

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

Radioactive materials B and C, Paragraph 5, will be used at the address listed in Item 2 and temporary jobsites throughout the United States.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION:

Thomas Billings

TELEPHONE NUMBER:

404/421-5271

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 FEE (See 10 CFR 170 and Section 170.31):

FEE CATEGORY: _____ AMOUNT ENCLOSED \$ _____

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.

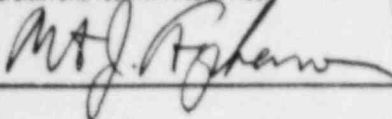
WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948, 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

SIGNATURE—CERTIFYING OFFICER:

TYPED/PRINTED NAME:

TITLE:

DATE:



ROBERT J. STEPHENSON, P.E. Director, SAD Laboratory

27 Jan 88

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	COMMENTS	APPROVED BY
FEE EXEMPT				
AMOUNT RECEIVED	CHECK NUMBER			DATE
8803060038	880219			
REG 2 LIC 30				
10-16458-01				
		PDR		

Attachment to Request for Amendment to
Material License Number 10-16458-01

Item 5 Radioactive Material

	<u>Radionuclide</u>	<u>Form</u>	<u>Troxler Drawing Number</u>	<u>Maximum Amount</u>
B.	Cs-137	Special Form	A-102112	Not to exceed 9mCi per source
C.	Am241:BE	Special Form	A-102451	Not to exceed 44mCi per source

Item 6 Material Use

- B. For use in a Troxler Model 3440 portable surface moisture density measuring gauge.
- C. For use in a Troxler Model 3440 portable surface moisture density measuring gauge.

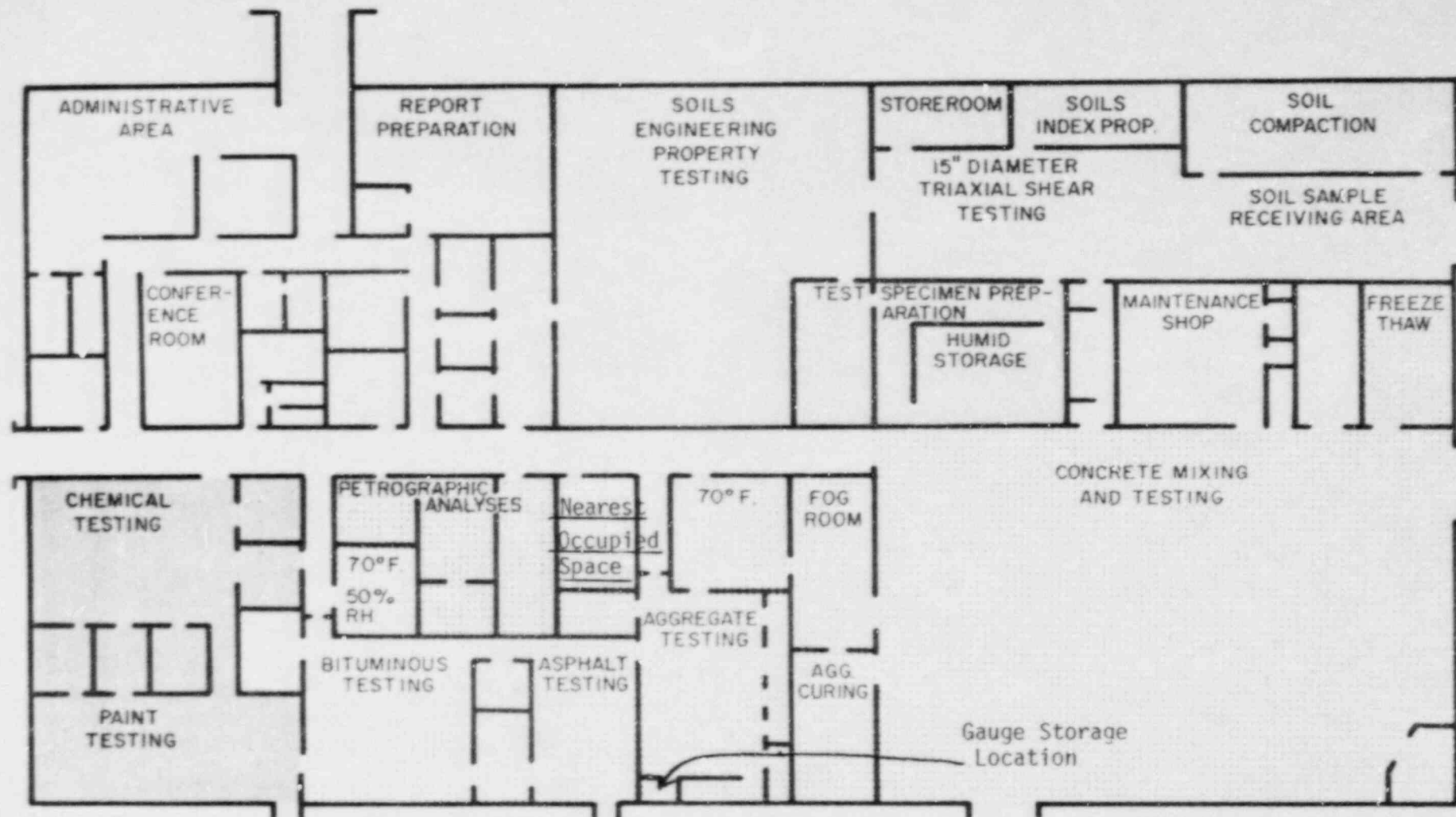
Item 7 No Change

Item 8 Training of Gauge Users

Each individual that will operate the nuclear gauge will complete the Troxler nuclear gauge training course, read and understand our radiation safety procedures; and, be approved by our Radiation Safety Officer. Copies of each individual's training certificate will be maintained on file.

Item 9 Gauge Storage Area

A sketch showing the location where the gauge will be stored when not in use is attached. The storage area is approximately 45 ft. from the nearest full time occupied space. Mr. William L. Tison and Mr. Harvey Mayes have keys to the storage area.



LEGEND:



SOILS TESTING



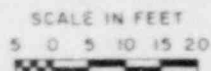
CHEMICAL TESTING



CONCRETE & BITUMINOUS MATERIALS



PETROGRAPHIC ANALYSES



Floor plan of SADL showing areas utilized for various activities.

STORAGE AREA LOCATION
FOR
TROXLER NUCLEAR GAUGE

Radiation Safety Program
for Troxler 3440 Portable Surface
Moisture Density Measuring Gauge

Item 10

1. Radiation Safety Officer

A. Thomas Billings has been designated as the company Radiation Safety Officer and will assume the duties and responsibilities that include the following:

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 personal monitoring equipment when utilizing the equipment.
4. To maintain the records as required by the license and the regulations. These records shall include personal 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. All possible means shall be provided to ensure that the equipment is fully secured in the transporting vehicle and the equipment is away from the passenger compartment. When transporting in an enclosed vehicle (car or van), the vehicle will be locked. When transporting in an open bed vehicle, the gauge should be securely fastened and locked to the truck bed.
2. The gauge will be transported in the TROXLER transportation case. The U.S. Department of Transportation requires that the gauge be transported in a properly labeled carrying case.
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 in the field, you as the authorized user 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, you will maintain any radiation exposure to as low as reasonable attainable.
3. When using the equipment, you will wear the personal monitoring device that has been assigned to you. When you are not using the equipment, your monitoring device is to be stored in the radiation free area that has been designated in the office.

C. Maintenance and Leak Test Procedures

1. Periodic maintenance will include cleaning the gauge. During any maintenance, you must wear your personal monitoring device.
2. No maintenance will be performed in which the radioactive source is removed from the gauge. For this type of maintenance, the gauge will be returned to the manufacturer.
3. The leak test will be performed using the TROXLER Model 3880 Leak Test Kit. The leak test will be performed using the manufacturer's instructions. Again, the personal monitoring device will be employed. Gauges will be leak tested at intervals not to exceed six (6) months.

3. Emergency Procedures

- A. In the event of physical damage to a gauge, the following will be performed:
 1. Immediately cordon off an area around the gauge. An area radius of 15 feet will be sufficient.
 2. If a vehicle is involved, it must be stopped until the extent of contamination, if any, can be established.
 3. A visual inspection of the gauge is to 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, you must contact Thomas Billings at 404/421-5271. Describe the present conditions and follow the instructions of the Radiation Safety Officer.
- B. In the event the gauge is lost or stolen, immediately notify the Radiation Safety Officer as listed above in Item 3.A.4.

Item 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. Records of transfer will be maintained on file.