

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 30333

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)

Seven K Construction Company, Inc.
2846-A Nutley Road
Fairfax, Virginia 22031

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

At address listed in Item 2 and at temporary job sites throughout the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction over the use of by-product material.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Robert Van Horn

TELEPHONE NUMBER

(703)385-6622

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.

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

9. FACILITIES AND EQUIPMENT.

11. WASTE MANAGEMENT.

8506190304 850520
REG2 LIC30
45-23074-01 PDR

13. CERTIFICATION. (Must be 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

Thomas P. Krug

Thomas P. Krug

Project Manager

4/5/85

14. VOLUNTARY ECONOMIC DATA

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)
75

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

☐ NO

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	COMMENTS
APPL.	Apr 5 II	3P	
AMOUNT RECEIVED	CHECK NUMBER		
\$230	1123		

APPROVED BY

Francis Brown

DATE

4/19/85

03/21

50548
Rec'd 4/19/85

Region II

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



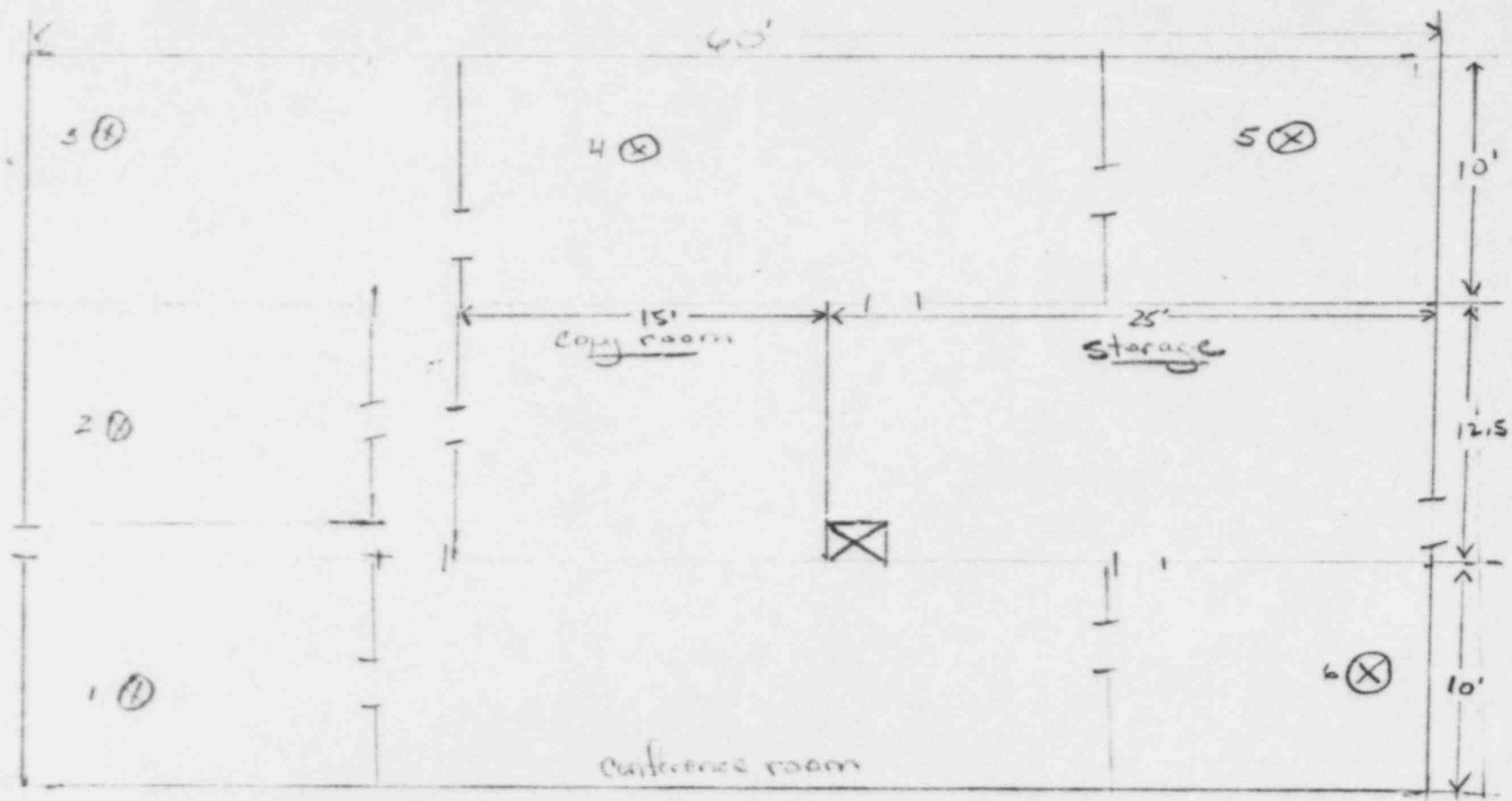
5. a. Radionuclei CS-137, Special Form Troxler Drawing
#A102112, Maximum Amount not to exceed 9 mCi per source.
- b. Radionuclei Am-241:Be, Special Form Troxler Drawing
#A102451, Maximum Amount not to exceed 44 mCi per source.
- c. Radionuclei Am-241:Be, Special Form Troxler Drawing
#A100337, Maximum Amount not to exceed 300 mCi per source.
330
6. a. To be used in Troxler Model 3400 Series Surface
Moisture/Density Gauge - A & B
- b. To be used in Troxler Model 3241 Asphalt Content Gauge - C
- c. To be used in Troxler Model 4640 Surface Density Gauge - A
7. Robert VanHorn attended Troxler Nuclear Gauge Training Course
3/25/85 as well as Nuclear safety school while a hospital
corpsman - US Navy.
8. Each individual operating the gauge will attend the Troxler
training seminar. Their training certificate will be on file.
9. see attached sketch.
10. see attached - Radiation Protection Program
11. Gauge to be disposed of only in approved manner, either it will
be transferred to another licensed user, sent to a licensed burial
ground or back to the manufacturer.

ITEM 9 -

☒ = Storage Cabinet for Troxler Gauge

⊗ = Permanent work stations (1 - 6)

Key to cabinet will be in possession of Bob Van Horn and Tom Shaughnessy
Nearest work station is 18' (Work station #4)



TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

ROBERT VanHORN

of

SEVEN K CONSTRUCTION

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

Brian W. Potter
INSTRUCTOR

3/26/85

DATE

W.F. TROXLER

PRESIDENT

No 10566

TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

THOMAS SHAUGHNESSY

of

SEVEN K. CONSTRUCTION

HAS SUCCESSFULLY COMPLETED THE TROXLER ELECTRONIC LABORATORIES, INC.
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Gauge Operation

1. Instrument theory
2. Operating procedures
3. Maintenance

4. Field application
5. Gauge calibration

3/26/85

DATE

W.F. TROXLER
PRESIDENT

№ 10564

Brian J. Pether
INSTRUCTOR



RADIATION SAFETY PROGRAM

I. Radiation Safety Office

A. Robert VanHorn has been designated as the company Radiation Safety Officer and will assume responsibility for the following:

1. Ensure the terms of the license are being met and that the information in the license is up-to-date.
2. Develop and implement a safety training program for:
 - a. People working in the area but who have no responsibility for handling the equipment.
 - b. People who handle the equipment.
 - c. People who will be involved in case of an emergency.
 - d. To see that all people involved read and understand the radiation safety operating and emergency procedures.
3. Ensure the equipment is leak tested on a regular basis in the manner prescribed by the manufacturer.
4. Maintain required records including personnel exposure, leak tests, and training certificates.
5. Authorize individuals who may use the equipment. Ensure only authorized individuals use the equipment and that all users wear personal monitoring equipment.
6. Serve as the contact for any emergency involving the equipment and to notify the proper authorities in such cases.
7. Ensure that the equipment is properly secured against unauthorized removal when not in use.

II. Operating Procedures

A. Utilization Procedures

1. The authorized user must maintain control over the gauge at all times in the field.
2. During use the user will wear the personal monitoring device assigned to him. When not using equipment, monitoring device is to be stored in the radiation free area designated in the office.



II. A. (continued)

3. When not making measurements, the gauge should be placed in the transportation case and returned to its permanent storage area as soon as possible.

B. Transportation of Equipment

1. The equipment shall be fully secured in the transportation vehicle and kept as far away from the passenger compartment as possible. If transporting in car or van, the vehicle will be locked; in an open bed vehicle the gauge will be secured to the truck body.
2. The gauge will be transported in the Troxler transportation case. The US 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.

C. Maintenance of Leak Test Procedures

1. Regular maintenance will include cleaning of gauge. During any handling of equipment personal monitoring devices will be worn.
2. The radioactive source will never be removed from the gauge. For that type of maintenance the gauge is to be returned to the manufacturer.
3. The Troxler model 3880 Leak Test Kit will be used for leak tests. Manufacturer's instructions will be followed. The personal monitoring device is to be worn during the leak test. Gauges will be leak tested at least every six months.

D. Emergency Procedures

1. In the event of damage to the gauge do the following:
 - a. Immediately cordon off an area of 15 feet radius.
 - b. Any vehicles involved must be stopped until the extent of contamination is established.
 - c. Make a visual inspection of the gauge to determine if source housing or shielding has been damaged.
 - d. Once the situation is under control, quickly contact R. VanHorn at 385-6622. Describe the present situation and follow the instructions of the Radiation Safety Officer R. VanHorn at 385-6622.

SEVEN K CONSTRUCTION CO.

770 Frontage Road
Northfield, IL 60093
312.441 5081



II. D. (continued)

2. If gauge is lost or missing, immediately notify the Radiation Safety Officer, Robert VanHorn at 385-6622.