

APPLICATION FOR BYPRODUCT MATERIAL LICENSE
INDUSTRIAL

X a. NEW LICENSE

See attached instructions for details.

b. AMENDMENT TO:
LICENSE NUMBER

c. RENEWAL OF:
LICENSE NUMBER

Completed applications are filed in duplicate with the Division of Fuel Cycle and Material Safety, Office of Nuclear Material Safety, and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555 or applications may be filed in person at the Commission's office at 1717 H Street, NW, Washington, D. C. or 7915 Eastern Avenue, Silver Spring, Maryland.

2. APPLICANT'S NAME (Institution, firm, person, etc.)

City of Fairfax

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION
703-385-7990

3. NAME AND TITLE OF PERSON TO BE CONTACTED
REGARDING THIS APPLICATION

Wayne Marteny

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION
703-385-7983

4. APPLICANT'S MAILING ADDRESS (Include Zip Code)
(Address to which NRC correspondence, notices, bulletins, etc., should be sent.)

City of Fairfax
3410 Pickett Road
Fairfax, VA 22030

5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED
(Include Zip Code)

Construction jobsites throughout
Fairfax City

(IF MORE SPACE IS NEEDED FOR ANY ITEM, USE ADDITIONAL PROPERLY KEYED PAGES.)

6. INDIVIDUAL(S) WHO WILL USE OR DIRECTLY SUPERVISE THE USE OF LICENSED MATERIAL

(See Items 16 and 17 for required training and experience of each individual named below)

FULL NAME

TITLE

a. Ronald Shillingburg

Concrete Foreman

b.

c.

7. RADIATION PROTECTION OFFICER

Ronald Shillingburg

385-7990

Attach a resume of person's training and experience as outlined in Items 16 and 17 and describe his responsibilities under Item 15.

8. LICENSED MATERIAL

L I N E NO.	ELEMENT AND MASS NUMBER A	CHEMICAL AND/OR PHYSICAL FORM B	NAME OF MANUFACTURER AND MODEL NUMBER (If Sealed Source) C	MAXIMUM NUMBER OF MILLCURIES AND/OR SEALED SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME D
(1)	CS-137	Sealed Source	Troxler Drawing #A-102112	Not to exceed 10 MCI per source
(2)	AM 241:Be	Sealed Source	Troxler Drawing #A-102451	Not to exceed 50 MCI per source
(3)				
(4)				

DESCRIBE USE OF LICENSED MATERIAL
E

(1) For use in a Troxler Model 3411B Series Moisture Density Gauge to measure
(2) properties of construction materials. For different projects throughout the city.

(3) License Fee Information
on Next Page

8509260075 850829
REG2 LIC30
45-23092-01 PDR

170.11(a)(9)
FEE EXEMPT

July - XII

Rec'd 12/1/81
50669
209K 8009
030-18009

9. STORAGE OF SEALED SOURCES

LINE NO.	CONTAINER AND/OR DEVICE IN WHICH EACH SEALED SOURCE WILL BE STORED OR USED. A.	NAME OF MANUFACTURER B.	MODEL NUMBER C.
(1)	Surface Moisture Density Gauge	Troxler Electronics	3411B
(2)			
(3)			
(4)			

10. RADIATION DETECTION INSTRUMENTS

LINE NO.	TYPE OF INSTRUMENT A.	MANUFACTURER'S NAME E.	MODEL NUMBER C.	NUMBER AVAILABLE D.	RADIATION DETECTED (alpha, beta, gamma, neutron) E.	SENSITIVITY RANGE (milliroentgens/hour or counts/minute) F.
(1)	None					
(2)						
(3)						
(4)						

11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10

☐ a. CALIBRATED BY SERVICE COMPANY

NAME, ADDRESS, AND FREQUENCY

N/A

☐ b. CALIBRATED BY APPLICANT

Attach a separate sheet describing method, frequency and standards
used for calibrating instruments.

12. PERSONNEL MONITORING DEVICES

TYPE (Check and/or complete as appropriate.) A.	SUPPLIER (Service Company) B.	EXCHANGE FREQUENCY C.
<input checked="" type="checkbox"/> (1) FILM BADGE <input type="checkbox"/> (2) THERMOLUMINESCENCE DOSIMETER (TLD) <input type="checkbox"/> (3) OTHER (Specify): _____ _____ _____	R.S. Landauer, Jr. & Co. Glenwood Science Park Glenwood, Illinois 60425 312-755-7000	<input checked="" type="checkbox"/> MONTHLY <input type="checkbox"/> QUARTERLY <input type="checkbox"/> OTHER (Specify): _____ _____ _____

13. FACILITIES AND EQUIPMENT (Check where appropriate and attach annotated sketch(es) and description(s).)

- ☐ a. LABORATORY FACILITIES, PLANT FACILITIES, FUME HOODS (Include filtration, if any), ETC.
☒ b. STORAGE FACILITIES, CONTAINERS, SPECIAL SHIELDING (fixed and/or temporary), ETC.
☐ c. REMOTE HANDLING TOOLS OR EQUIPMENT, ETC.
☐ d. RESPIRATORY PROTECTIVE EQUIPMENT, ETC. SEE ATTACHED DRAWING

14. WASTE DISPOSAL

a. NAME OF COMMERCIAL WASTE DISPOSAL SERVICE EMPLOYED

b. IF COMMERCIAL WASTE DISPOSAL SERVICE IS NOT EMPLOYED, SUBMIT A DETAILED DESCRIPTION OF METHODS WHICH WILL BE USED FOR DISPOSING OF RADIOACTIVE WASTES AND ESTIMATES OF THE TYPE AND AMOUNT OF ACTIVITY INVOLVED. IF THE APPLICATION IS FOR SEALED SOURCES AND DEVICES AND THEY WILL BE RETURNED TO THE MANUFACTURER, SO STATE.

Sources will be returned to the manufacturer or another authorized licensee when use is discontinued.

INFORMATION REQUIRED FOR ITEMS 15, 16 AND 17

Describe in detail the information required for Items 15, 16 and 17. Begin each item on a separate page and key to the application as follows:

15. **RADIATION PROTECTION PROGRAM.** Describe the radiation protection program as appropriate for the material to be used including the duties and responsibilities of the Radiation Protection Officer, control measures, bioassay procedures (if needed), day-to-day general safety instruction to be followed, etc. If the application is for sealed source's also submit leak testing procedures, or if leak testing will be performed using a leak test kit, specify manufacturer and model number of the leak test kit.
16. **FORMAL TRAINING IN RADIATION SAFETY.** Attach a resume for each individual named in Items 6 and 7. Describe individual's formal training in the following areas where applicable. Include the name of person or institution providing the training, duration of training, when training was received, etc.
 - a. Principles and practices of radiation protection.
 - b. Radioactivity measurement standardization and monitoring techniques and instruments.
 - c. Mathematics and calculations basic to the use and measurement of radioactivity.
 - d. Biological effects of radiation.
17. **EXPERIENCE.** Attach a resume for each individual named in Items 6 and 7. Describe individual's work experience with radiation, including where experience was obtained. Work experience or on-the-job training should be commensurate with the proposed use. Include list of radioisotopes and maximum activity of each used.

ITEM 15 - See attached Radiation Safety Program

ITEM 16-17 - See Attached Certificate of Training for the Radiation Safety Officer.

18. CERTIFICATE

(This item must be completed by applicant)

July - 4 - 85
 Check No.
 Amount/Fee Category **EX 3A**
 Type of Fee **Appr**
 Date Check Made **None**
 Received By **Jacques**

The applicant and any official executing this certificate on behalf of the applicant named in Item 2, certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 30, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.

FEE EXEMPT

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.

a. LICENSE FEE REQUIRED
 (See Section 170.31, 10 CFR 170)
 \$110.00

b. CERTIFYING OFFICIAL (Signature)
James R. Shull
 c. NAME (Type or print)
 James R. Shull

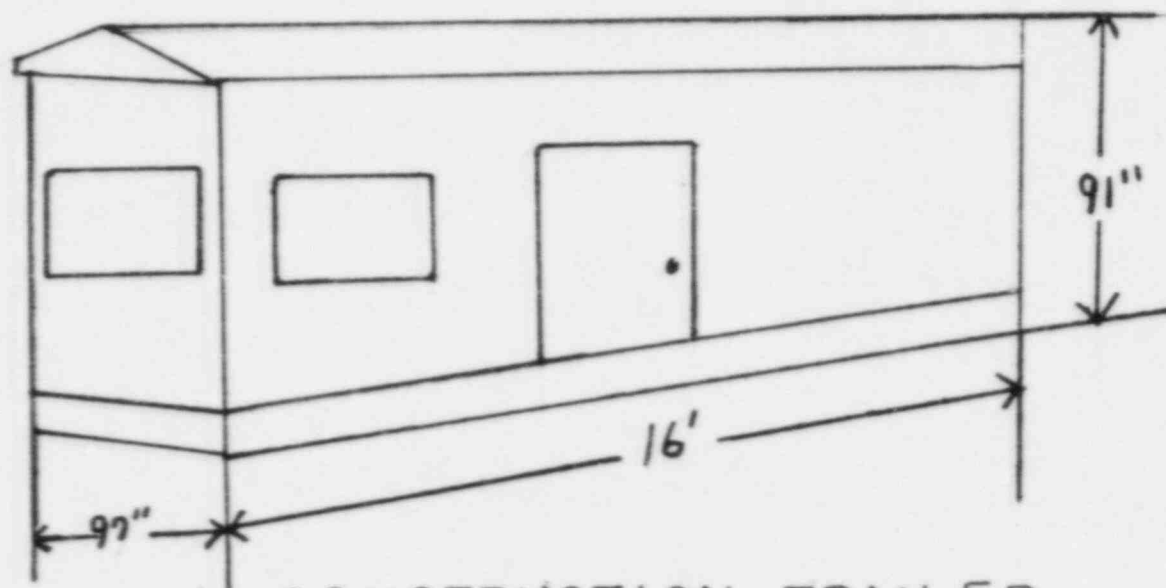
(1) LICENSE FEE CATEGORY: New

d. TITLE
 Director of Public Works

(2) LICENSE FEE ENCLOSED: \$ 110.00

e. DATE
 7/2/85

CITY OF FAIRFAX



CONSTRUCTION TRAILER

STORAGE AREA : 3410 PICKETT RD.
PROPERTY YARD

NOTE : NEAREST OCCUPIED AREA 1500'
KEYS (1) MR. WAYNE MARTENY DIV. SUPT.
TRAILER IS USED ONLY FOR STORAGE

Commonwealth of Virginia
CERTIFICATE OF QUALIFICATION FOR
NUCLEAR TESTING

VIRGINIA DEPARTMENT OF HIGHWAYS & TRANSPORTATION

This is to certify that R. L. Shillingburg
has been instructed by the Department on safety, handling, storage, and operating procedures of nuclear gases.

Inspector

Assigned this 5th day of April 1985

This certificate expires July 1, 1987

No. 6031

STATE MATERIALS ENGINEER

INSPECTOR CREED

1. I will study and know specifications and test methods.
2. I will know my responsibilities, the extent of my authority and the established working chain of command.
3. I will be prompt in making decisions.
4. I will be firm, fair and consistent in contractor relationships.
5. I will always maintain complete and accurate records.
6. I will accept no favors or gratuities nor engage in activity which would compromise my official position or result in a conflict of interest.
7. I will be constantly aware of the "False Statement" provisions and penalties contained in Title 18, U.S.C., Section 1026 (Federal Aid Contracts).
8. I will promote Department public relations and safety programs.
9. I will work constantly to improve my inspection competence and progress to advanced areas of inspection.
10. I will ever recognize the importance of inspection in the construction program and be constantly mindful of my responsibilities to the Department.

TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

RONALD SHILLINGBURG

of

CITY OF FAIRFAX

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. | 5. Radioactivity measurement standardization and monitoring techniques and instruments. |
| 2. Leak testing procedures. | 6. Accident and incident procedures. |
| 3. Mathematics and calculations basic to the use and measurement of radioactivity. | 7. Procedures for nuclear gauge storage and transportation. |
| 4. Biological effects of radiation. | 8. General safety precautions. |

Gauge Operation

- | | |
|-------------------------|----------------------|
| 1. Instrument theory | 4. Field application |
| 2. Operating procedures | 5. Gauge calibration |
| 3. Maintenance | |


INSTRUCTOR

6/7/84
DATE

W.F. TROXLER
PRESIDENT

№ 7417