

APPLICATION FOR BYPRODUCT MATERIAL LICENSE
INDUSTRIAL

☒ a. NEW LICENSE

☐ b. AMENDMENT TO:
LICENSE NUMBER

☐ c. RENEWAL OF:
LICENSE NUMBER

See attached instructions for details.

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.)

MARSOLINO CONST. CO., INC.

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION
412-438-4581

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

FRANK J. MAZUREK, JR.

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION
412-438-4581

4. APPLICANT'S MAILING ADDRESS (Include Zip Code)

(Address to which NRC correspondence, notices, bulletins, etc., should be sent.)

P.O. DRAWER X
UNIONTOWN, PA. 15401

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

Item #4 and at temporary jobsites throughout the US anywhere the USNRC MAINTAINS JURISDICTION OVER BY PRODUCT MATERIALS.

(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. FRANK MAZUREK, JR.

RADIATION PROTECTION OFFICER

b. JOE E. ONESI

LABORATORY TECH.

c.

7. RADIATION PROTECTION OFFICER

FRANK MAZUREK, JR.

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

LINE NO.	ELEMENT AND MASS NUMBER	CHEMICAL AND/OR PHYSICAL FORM	NAME OF MANUFACTURER AND MODEL NUMBER (If Sealed Source)	MAXIMUM NUMBER OF MILLICURIES AND/OR SEALED SOURCES AND MAXIMUM ACTIVITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME
A	B	C	D	
(1)	Cs 137	sealed source	as per Troxler drawing #4-102112	no single source to exceed 9 m Ci
(2)	Am 241:Be	sealed source	as per Troxler drawing #4-102451	no single sources to exceed 40 m Ci
(3)	8801290249 870707 REG1 LIC30 37-20559-01 PDR			
(4)				

DESCRIBE USE OF LICENSED MATERIAL
E

(1) For use in a Troxler Model 3411B surface moisture density gauge to measure properties of construction materials.

(2) Same as (1) above.

(3)

(4)

License Fee Information
on Reverse Side

00650

JUN 1 1982

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 B.	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

<input type="checkbox"/> a. CALIBRATED BY SERVICE COMPANY NAME, ADDRESS, AND FREQUENCY NOT APPLICABLE HERE	<input type="checkbox"/> b. CALIBRATED BY APPLICANT Attach a separate sheet describing method, frequency and standards used for calibrating instruments.
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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.

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:

SOURCE WILL BE RETURNED TO TROXLER ELECTRONICS (MANUFACTURER)

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.

Applicant	Check No. 8472
Amount Fee Paid	\$110.00
Type of Fee	Application
Date Check Rec'd	6/22/82
Received By	Jachan

18. CERTIFICATE

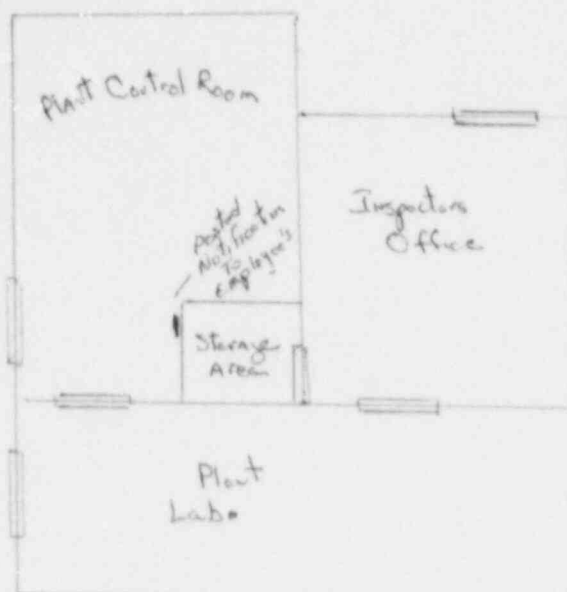
(This item must be completed by applicant)

RECEIVED BY LFMB	
Date	6/22/82
Log	Jachan - 4
By	Jachan
Orig. To	
Action Compl.	6/22/82

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.

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)	b. CERTIFYING OFFICIAL (Signature)
\$110.00 (107.31.3.1)	<i>Frank J. Mazurek, Jr.</i>
(1) LICENSE FEE CATEGORY: APPLICATION - NEW LICENSE	c. NAME (Type or print) FRANK J. MAZUREK, JR.
(2) LICENSE FEE ENCLOSED: \$ 110.00	d. TITLE RADIATION PROTECTION OFFICER
	e. DATE 5-26-82



B. STORAGE FACILITIES: Coolspring Asphalt Plant Building located at

MARCOLINO COOLSPRING QUARRY, INC.
P.O. BOX 1328
UNIONTOWN, PENNA. 15401

1. All three rooms occupied 8 hours a day, five days a week.
2. Door on storage area will be locked and properly marked and only authorized personnel to have a key.
3. Walls of storage area are 8" x 16" cement block.
4. Proper notice to employees at plant will be posted on place of employment of standards for protection against radiation.

ITEM 15 RADIATION PROTECTION PROGRAM

A. Handling Procedures

1. No one shall operate, attempt to operate, or transport the instrument unless they have been authorized to do so.
2. The source shall be kept in a "safe" or stored position when not in use.
3. The operator will wear a film badge when using the instrument.
4. While exposure dose levels are well within limits, operator will never expose himself to the bare source without sufficient reason for justification of the additional dose.
5. Keep all unauthorized persons out of operating area a distance of 15 feet.
6. At all times the gauge shall be secured against unauthorized removal.
7. Leak tests shall be performed at the intervals required by the radioactive materials license.
8. If there are any questions about instrument, ask Radiation Protection Officer for answers.

B. The Company will have a Radiation Protection Officer. Duties As Follows:

1. Coordinate the safe use of gauges.
2. Assure compliance with the requirements of Title 10 CFR Parts 19, 20, U S DOT regulations.
3. Assure that the device is only used by persons named under Item 6.
4. Assure all users wear their film badges while using gauge.
5. Assure gauges are properly secured against unauthorized removal at all times.
6. Serve as point of contact and give assistance in case of emergency to insure that all proper authorities are notified promptly in case of accidents.

7. Assure that terms of license are met such as;

- a. Periodic leak tests preformed.
- b. All required records are kept.

C. Security

Locks shall be maintained on the equipment to prevent accidental exposure. In addition, storage container and area shall be physically secured to prevent tampering or removal by unauthorized personnel.

D. Personnel Monitoring

No person shall use equipment unless he is in possession of a film badge dosimeter.

E. Records and Reports

- 1. A biannual physical inventory to account for all sealed sources received and possessed under the license shall be preformed. The inventory record shall be maintained for inspection.
- 2. All leak tests at the required intervals will be done with the records on file. If transferred, the source will be leak tested prior to transfer or shall not be put into use until so tested.
- 3. Reports from the dosimetry service shall be maintained for inspection.
- 4. When an individual terminated employment, a record of his total received dose shall be made available to the employee on request.

F. Incidents

- 1. Immediate telephone notification shall be made to the following in event of loss of the sealed source, whether accidental or due to theft.
 - a. Company Radiation Protection Officer
 - b. U. S. N. R. C. Regional Office
 - c. Local Authorities (if necessary)
 - d. Troxler Electronic Laboratories

Within 30 days after loss, a written report must be filed giving a description of the source, circumstances of the loss, statement of disposition, possible radiation exposures or hazard, actions to recover the source, and procedures which will be taken to prevent a recurrence.

2. Any exposure of operators which exceeds the limits given in 10 CFR part 20 shall be reported detailing circumstances of the exposure and possible injury.

G. Emergency Procedures

1. In the event of physical damage to the gauge, an exclusion area with a radius of 15 feet around the gauge shall be maintained until the extent of the source damage (if any) is determined. If a vehicle is involved, it will be stopped and remain stopped until the extent of contamination hazard (if any) is determined. If visual examination of the instrument and source indicates damage, including fracture of the weld, the appropriate authorities and Troxler Laboratories will be notified. The instrument will be removed from the site by use of a long-handled shovel and placed in a metal drum.
2. In event of source leakage or separation (real or suspected) of the source, the 15 feet exclusion area shall be maintained until arrival of the appropriate authorities.
3. If the rod containing the source becomes separated from the gauge, the rod will be picked up using pliers or tongs and inserted into top of the instrument, to provide shielding. The rod will then be secured in place using tape to prevent accidental unshielding of the source.

H. Transport By Private Motor Vehicle

1. The gauge will always be transported in its approved container under the "YELLOW II" label.
2. The device shall be locked and its container placed in a portion of the vehicle which also can be locked.

I. Leak Tests

1. Tests for leakage shall be done utilizing the Troxler Model 3880 Leak Test Kit.
2. Results of the test will be kept on file.

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H. Transport By Private Motor Vehicle

1. The gauge will always be transported in its approved container under the "YELLOW II" label.
2. The device shall be locked and its container placed in a portion of the vehicle which also can be locked.

I. Leak Tests

1. Tests for leakage shall be done utilizing the Troxler Model 3830 Leak Test Kit.
2. Results of the test will be kept on file.

Within 30 days after loss, a written report must be filed giving a description of the source, circumstances of the loss, statement of disposition, possible radiation exposures or hazard, actions to recover the source, and procedures which will be taken to prevent a recurrence.

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ITEM 16 (FORMAL TRAINING IN RADIATION SAFETY)

FRANK MAZUREK, JR. - SUPERINTENDENT OF QUALITY CONTROL

1. Troxler Electronic Laboratories, Inc. provided the training with their standard training course. The course was received on May 17, 1982 in one 8 hour class.

JOE ONESI - LABORATORY TECHNICIAN

1. Troxler Electronic Laboratories, Inc. provided the training with their standard training course. Received on May 17, 1982 in one 8 hour class.

ITEM 17 (EXPERIENCE)

1. Experience of Frank Mazurek, Jr. and Joe Onesi is the Standard Training course received on May 17, 1982 by the Troxler Electronic Laboratories, Inc.