FORM NRC-313 I U.S. NUCLEAR REGULATORY COMMISSION APPLICATION FOR (Check and/or complete as appropriate) 10 CFR 30 APPLICATION FOR BYPRODUCT MATERIAL LICENSE INDUSTRIAL a. NEW LICINSE See attached instructions for details b. AMENDMENT TO LICENSE NUMBER Completed applications are filed in duplicate with the Division of Fuel Cycle and Material Safety, Office of iduclear Material Safety, and Safeguards, U.S. Nuclear Regulatory Commission, RENEWAL OF 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.) 3. NAME OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION H. J. Williams Co., Inc. Fred R. Dietz TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION TELEPHONE NUMBER: AREA (717)843-0021 4. APPLICANT'S MAILING ADDRESS (Include Zip Code) 5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED (include Zip Code) P.O. Box 269 At address liste in 150 S. Sumner St. Item#4 and at temporary jobsites any York, Penna. 17405 where NRC maintains jurisdiction over (IF MORE SPACE IS NEEDED FOR ANY ITEM, USE ADD 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 Frederick E. Stauffer Ass't Superintendent RECEIVED BY LFMB Spencer E. Huff Asphalt Technician 7. RADIATION PROTECTION OFFICER a resume of person's training and experience as outlined in Items randdescribe his responsibilities under Item 15. Fred R. Dietz LICENSED MATERIAL Orig. TOHEMICAL ELEMENT NAME OF MANUFACTURER MAXIMUM NUMBER OF Action CAMPIFORM AND AND MILLICURIES AND/OR SEALED MASS NUMBER MODEL NUMBER SOURCES AND MAXIMUM ACTI-(If Sealed Source) VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME NO Troxler Drawing No Source to (1) Cs 137 Sealed Source # 102112 exceed 9 mci Troxler Drawing No Source to Sealed source Am 241:Be # 102451 exceed 40 mCi Amount/Fee C DESCRIBE USE OF LICENSED MATERIAL Received By. r 3400 series Moisture-Density gauge to measure properties of construction materials. "OFFICIAL RECORD COPY" COPIES SENT TO OFF. OF 03240

TYPE OF NAME NUMBER NUMBER INSTRUMENT A B C NONE (1) NONE	TECTION INSTRUMENTS NUMBER AVAILABLE STRUMENTS LISTED IN ITEM 10 Db. CALIBRATED BY APPLICANT Attach a separate sheet describing meticused for calibrating instruments.	
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12. PERSONNEL MO	DNITORING DEVICES SUPPLIER	
(Check and/or complete as appropriate.)	(Service Company)	EXCHANGE FREQUENC
Glen	R.S. Landauer, Jr. Co. Glenwood Science Park Glenwood, Illinois 60425	
(3) OTHER (Specify):		OTHER (Specify):
13. FACILITIES AND EQUIPMENT (Check were app		and description(s).
a. LABORATORY FACILITIES, PLANT FACILITIES, FUME b. STORAGE FACILITIES, CONTAINERS, SPECIAL SHIELDI c. REMOTE HANDLING TOOLS OR EQUIPMENT, ETC.		
d. RESPIRATORY PROTECTIVE EQUIPMENT, ETC.	STE DISPOSAL	
NAME OF COMMERCIAL WASTE DISPOSAL SERVICE EMPLO	Control of the Contro	
BE USED FOR DISPOSING OF RADIOACTIVE WASTES AND BE THE APPLICATION IS FOR SEALED SOURCES AND DEVICES	STIMATES OF THE TYPE AND AMOUNT O	F ACTIVITY INVOLVED. I

FORM NRC-313 I (1-79)

DATE.

CHKD. BY_

on floor above basement.

Below is sketch for storage of Troxler model 3411B gauge at adress listed in Item #4 of application.

As shown in sketch steel door to storage room in basement has a padlock to keep unauthorized personnel out. Storage area has a 6" thick concrete ceiling and is 12' from nearest full time working area, located

BASEMENT FREA

TROXLER MODEL 3411B

Moisture - Density SAUGE

W

W

BIZ" Thick BRICK WALL

9"

N REQUIRED FOR ITEMS 15, 16

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
 - 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 onthe job training should be commensurate with the proposed use. Include list of radioisotopes and maximum activity of each used.

The individuals named in items 6 & 7 have had no prior experience with radioactive materials.

18. CERTIFICATE

(This item must be completed by applicant)

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.

b. CERTIFYING OFFICIAL (Signature)	
c. NAME (Type or print)	
d. TITLE Radiation Protection Officer	
e. DATE 3/27/80	0324
	c. NAME (Type or print) Dietz d. TITLE Radiation Protection Officer e. DATE

150 SOUTH SUMNER STREET
P. O. BOX 269
YORK, PENNSYLVANIA 17405

15. Radiation Protection Program

Radiation Protection Officer

The named individual, reporting to management on radiation safety matters, will coordinate:

- 1. The safe use of the gauges.
- 2. Assure compliance with the requirements of Title 10 CRF Parts 19, 20, 30, or applicable state regulations, and all applicable US DOT regulations.
- 3. Assure byproduct materials possessed under the license are in conformity to materials listed on the license.
- 4. Assure that use of devices (particularly in the field) is only by persons named as users under the license or persons who have completed acceptable training.
- 5. Assure all users wear personnel monitoring while using gauges.
- 6. Assure gauges are properly secured against unauthorized removal at all times.
- 7. To serve as point of contact and give assistance in case of emergency to insure all proper authorities are notified promptly in case of accidents.
- 8. Assure that terms conditions of license are met such as:
 - a. Periodic leak tests are performed.
 - b. All required records are kept and reviewed periodically for compliance with regulations these include source certificate, leak test records, personnel exposure records, and transfer of radioactive materials.

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15. Radiation Protection Program (Con't)

HANDLING PROCEDURES

- 1. Do not operate or attempt to operate the instrument unless you have been authorized to do so.
- 2. Keep the source position in the safe or stored position when not in use.
- 3. Wear a film badge or other dose measurement device when using or transporting the instrument.
- 4. While exposure dose levels are well within limits for radiation workers, never expose yourself to the bare source without sufficent reason for justification of the additional dose.
- 5. Keep all unauthorized persons out of the operating area. A suggested distance is 5 meters or 15 feet. The general public must not be unmecessarily exposed to radiation.
- 6. Maintain security of the instrument at all times. The source lock should be in place when not in use and the instrument should be kept in a locked vehicle when transported. When stored, the area should be locked. Not only is it an expensive piece of equipment but, if stolen, could be abandoned under conditions which could be hazardous.
- 7. The H.J.Williams Co. has standard operating procedures; the operator should follow those procedures and report any that he feels are unsafe.
- 8. Insure that the gauge has had leak tests performed at the intervals required by our Radioactive Materials License. Leak tests will be performed by using Troxler 3880 leak test kit.
- 9. If you have any doubts about use of the instrument, ASK. Your Radiological Safety Officer either has the answer or can obtain one.

SECURITY

We require that locks be maintained on radiographic equipment to prevent accidental exposure of a sealed source when not under the direct supervision of approved personnel. In addition, storage containers shall be physically secured to prevent tampering or removal by unauthorized personnel.

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YORK, PENNSYLVANIA 17405

15. Radiation Protection Program (Con't)

PERSONNEL MONITORING

The licensee will not permit any person to use this equipment unless at all times the user is in the possession of a film badge or other form of dosimetry.

RECORDS AND REPORTS

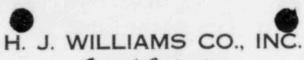
- 1. We will conduct a quarterly physical inventory to account for all sealed sources received and possessed under our license. The inventory record will be maintained for inspection.
- 2. We shall have all sealed sorces leak tested at the interval required by the license. When transfered, in the absence of a leak test certificate, the source shall not be put into use until tested.
- 3. Reports from film badge service will be maintained for inspection.
- 4. When an individual terminates employment with a license, a record of his total received dose will be made available to the employee.

INCIDENTS

- 1. We will report any theft or loss of licensed material by telephone or telegram to the appropriate agency, including the appropriate state agency. Within 30 days after the loss, a written report will be filed giving detailed description of the source, circumstances of the loss, statement of disposition, possible radiation exposures or hazard, actions taken to recover the source, and procedures which will be implemented to prevent a recurrence of the loss or theft.
- 2. We will report any overexposure of operators which exceeds the limits given in 10 CFR part 20, detailing circumstances of the exposure and possible injury.

HANDLING AND EMERGENCY PROCEDURES

1. No personnel may transport or use the nuclear gauges unless the individual has been approved by the Radiation Protection Officer and the requirements of these procedures are met.

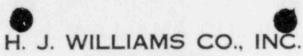


150 SOUTH SUMNER STREET
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15. Radiation Protection Program (Con't)

HANDLING AND EMERGENCY PROCEDURES (con't)

- 2. Each user must demonstrate their ability to correctly and safely use the nuclear gauge.
- 3. At the termination of each field use, the nuclear gauge will be transfered to its regular storage area.
- 4. In the event of physical damage to a gauge, a six (6) feet radius exclusion area should be maintained until the extent of source damage (if any) is determined. If a vehicle is involved, it must 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 to the source, including fracture of the weld, the appropriate authorities and Troxler Electronic Laboratories, Inc. will be notified. The instrument will be removed from the site by using a shovel or other long handled instrument and placed in a suitable container such as a metal drum. Provisions will be made to have the site surveyed for possible contamination afterthe instrument is removed. Disposition by the factory will be arranged after a leak test had been performed to determine the integrity of the source before shipment back to the factory.
- 5. Immediate telephone notification must be made to the following in the event of accident (4 above) or the loss of a sealed source, whether accidential or due to theft.
 - A. Company Radiological Safety Officer
 - B. NRC Regional Office if applicable
 - C. State Health Department Radiological protection division if applicable.
 - D. Local Authorities
 Fire Dept., sheriff, police, state highway
 patrol, if necessary.
 - E. Troxler Electronic Laboratories, if necessary



P. O. BOX 269
YORK, PENNSYLVANIA 17405

16. Formal Training in Radiation Safety

The individuals named in items 6 and 7 have completed the Troxler Electronic Labs, Inc. standard training course on March 24th and 25th, 1980 at Allentown, Pa.