

APPLICATION FOR BYPRODUCT MATERIAL LICENSE
INDUSTRIAL

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.

a. NEW LICENSE

b. AMENDMENT TO:
LICENSE NUMBER

49-19407-01

c. RENEWAL OF:
LICENSE NUMBER

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

John W. Donnell & Associates, Inc.
TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION
(307) 347-8276

3. NAME OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION

Charles E. Bartlett
TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION
(307) 347-8276

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

John W. Donnell & Associates, Inc.
P. O. Box 638
1701 Big Horn Avenue
Worland, Wyoming 82401

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

1701 Big Horn Avenue
Worland, Wyoming 82401

(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. Charles E. Bartlett

Civil Engineer, E.I.T.

b. Nicholas B. Wolfrum

Civil Engineer, E.I.T.

c. Mark E. Reid

Engineering Technician

7. RADIATION PROTECTION OFFICER

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

Charles E. Bartlett

8. LICENSED MATERIAL

LINE 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 MILLICURIES AND/OR SEALED SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME D
(1)	Cesium 137	Sealed source Type A	Troxler Mod. 3411	8 mCi \pm 10%
(2)	Americium 241	Sealed source Type A	Troxler Mod. 3411	40 mCi \pm 10%
(3)				
(4)				

DESCRIBE USE OF LICENSED MATERIAL
E

(1) To measure moisture and density of soils and aggregates for
(2) construction work.

(3) 8528300181 850619
REG 4 LIC 30
49-19407-01 PDR

(4)

COPIES SENT TO OFF. OF
INSPECTION AND ENFORCEMENT

12572
440/34
Amendment
3/8/82
Brown

10520

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 Labs, Inc.	3411
(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)	N.A.					
(2)						
(3)						
(4)						

11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10

<input type="checkbox"/> a. CALIBRATED BY SERVICE COMPANY NAME, ADDRESS, AND FREQUENCY N.A.	<input type="checkbox"/> 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.

14. WASTE DISPOSAL

- a. NAME OF COMMERCIAL WASTE DISPOSAL SERVICE EMPLOYED In the event it becomes necessary to dispose of gauge, it will be returned to manufacturer.
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.

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.

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.

a. LICENSE FEE REQUIRED

(See Section 170.31, 10 CFR 170)

\$40.00

(1) LICENSE FEE CATEGORY:

10 CFR 170.31.3.L.

(2) LICENSE FEE ENCLOSED:

\$40.00

b. CERTIFYING OFFICIAL (Signature)

c. NAME (Type or print)

John W. Donnell

d. TITLE

President

e. DATE

February 24, 1982

5. The nuclear gauge shall be used on temporary job sites throughout the State of Wyoming.

6d. Robert J. Jackson

Engineering Technician

e. Sherman B. Allred

E.I.T.

16. FORMAL TRAINING IN RADIATION SAFETY

<u>Name</u>	<u>Training</u>
Charles E. Bartlett	Troxler Standard One Day Training Course held in Casper, Wyoming, on May 6, 1980
Nicholas B. Wolfrum	Troxler Standard One Day Training Course held in Denver, Colorado, on August 29, 1980
Mark E. Reid	Troxler Standard One Day Training Course held in Denver, Colorado, on August 29, 1980
Robert J. Jackson	Troxler Standard One Day Training Course held in Denver, Colorado, on August 29, 1980
Sherman B. Allred	Troxler Standard one day training course held in Denver, Colorado, on February 22, 1982

17. EXPERIENCE

<u>Name</u>	<u>Experience</u>
Charles E. Bartlett	Field work portion of Troxler Course, used gauge since August 12, 1980, on various projects
Nicholas B. Wolfrum	Field work portion of Troxler Course. Used gauge since January 14, 1981
Mark E. Reid	Field work portion of Troxler Course. Used gauge since January 14, 1981
Robert J. Jackson	Field work portion of Troxler Course. Used gauge since January 14, 1981
Sherman B. Allred	Work experience limited to field work portion of Troxler Course