

FORM NRC 313 I
(3-80)
10 CFR 30

U.S. NUCLEAR REGULATORY COMMISSION

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.

1. APPLICATION FOR:
(Check and/or complete as appropriate)

a. NEW LICENSE

b. AMENDMENT TO:
LICENSE NUMBER

c. RENEWAL OF:
LICENSE NUMBER

X 36-15080-01

2. APPLICANT'S NAME (Institution, firm, person, etc.)
U.S. Department of the Interior
Bureau of Indian Affairs

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION
503-553-1121 Ext. 423

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

Warm Springs Agency-P.O. Box 1239
Warm Springs, OR 97761-0079

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

Richard D. Souers, Civil Engr. Tech. Supervisor

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION
503-553-1121 Ext. 423

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

Building #57, Warm Springs Indian Agency,
Warm Springs, OR 97761-0079
Temporary working sites - anywhere U.S.A.

(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. Richard D. Souers

b. See Attached Sheet

c. See Attached Sheet

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.

Radiation Officer-Richard D. Souers

8. LICENSED MATERIAL

L I N E	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 ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME
NO.	A	B	C	D
(1)	Cesium 137	Sealed Source	Troxler Dwg, A-102112	Not to exceed 10 Millicuries per source
(2)	Americium 241	Sealed Source	Troxler Dwg, A-102451	Not to exceed 50 Millicuries per source
(3)	*Americium 241	Sealed Source	Troxler Dwg, A100337 (Rev.B)	Not to exceed 300 Millicuries per source
(4)				

DESCRIBE USE OF LICENSED MATERIAL

E

(1) Troxler 3411, B-Surface Moisture and Density Gauge

(2) Troxler 3411, B-Surface Moisture and Density Gauge

(3) *Troxler 2226-Measure Asphalt Content *see attached sheet #7.

(4) 8802030285 880125

REGS LIC30

36-15080-02

PDR

RECEIVED
NRC

1988

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FEE EXEMPT

70701

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)	Troxler Moisture, Density Gauge(Shipping Container)	Troxler	3411-B
(2)	Troxler Asphalt Content(Shipping Container)	Troxler	2226
(3)	see attached sheet #7		
(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)	IN CASE OF ACCIDENT WITH ANY OF THE GAUGES	VICTOREEN	CDV - 700	IS		
(2)	AT MADRAS, OR. THESE GAUGES ARE MAINTAINED BY THE OREGON STATE HIGHWAY					
(3)	DEPARTMENT.					
(4)						

11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10

<input type="checkbox"/> a. CALIBRATED BY SERVICE COMPANY Approx. every 4 years NAME, ADDRESS, AND FREQUENCY Troxler Electronic, Inc., 5041 H, College Oak Drive, Sacramento, CA 95841	<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): <u>Model LTK-1, Leak Test</u>	U.S. Testing Co., Inc. 2800 George Washington Way Richland, WA 99352 Phone (509) 946-5157 Gulf Nuclear, Inc. P.O. Box 58866 Houston, Texas 77058 Phone (713) 332-3581	<input type="checkbox"/> MONTHLY <input checked="" type="checkbox"/> QUARTERLY <input checked="" type="checkbox"/> OTHER (Specify): <u>Leak Test</u> <u>Every 6 months</u>

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

If necessary sealed sources will be returned to the manufacturer for disposal.

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.

<p>a. LICENSE FEE REQUIRED (See Section 170.31, 10 CFR 170)</p> <p>N/A- Government Agency</p>	<p>b. CERTIFYING OFFICIAL (Signature) <i>Bernard Topash</i></p> <p>c. NAME (Type or Print) Bernard Topash</p>
<p>(1) LICENSE FEE CATEGORY:</p>	<p>d. TITLE <i>Acting</i> Superintendent, Warm Springs Agency</p>
<p>(2) LICENSE FEE ENCLOSED: \$</p>	<p>e. DATE JAN 07 1988</p>

BUREAU OF INDIAN AFFAIRS

Branch of Roads
Warm Springs Agency

INDIVIDUALS WHO WILL USE OR DIRECTLY SUPERVISE THE USE OF LISCENSED MATERIAL:

6.	<u>TRAINING HELD</u>	<u>LENGTH</u>	<u>YEAR</u>
<u>RICHARD D. SOUERS</u> Radiation Safety & Use of Nuclear Gauges Campbell Pacific Nuclear, Corp. Lic.#1100-07, October 28, 1987	Portland, OR	2 Days	1970
Basic Training in Use of Nuclear Gauges Federal Highway Administration Lic.#36-13336-01	Vancouver, WA	1 Day	1973
Nuclear Gauge Operator Training Hydrotech Services	Portland, OR	1 Day	1978
Advanced Nuclear Operator Training RMS, Inc., Lic.#ORE-0452-1	Portland, OR	1 Day	1982
<u>WILLIAM RODGERS</u> BASIC Nuclear Gauge Operator Training	Salem, OR	1 Day	1982
Advanced Nuclear Operator Training RMS, Inc., Lic.#ORE-0452-1	Portland, OR	1 Day	1982
<u>TERRANCE COURNEY, JR.</u> Basic Nuclear Gauge Operator Training Federal Highway Administration, Lic.#36-13336-01	Vancouver, WA	1 Day	1973
Basic Training Nuclear Gauge Operator Federal Highway Administration, Lic.#36-13336-01	Vancouver, WA	2 Days	1974
<u>MERRITT E. WILLIAMS</u> Basic Nuclear Gauge Operator Training Federal Highway Administration, Lic.#36-13336-01	Vancouver, WA	1 Day 1 Day	1977 1983

7. LICENSED MATERIAL

*Troxler 2226, Asphalt Content Gauge is owned by Yakima Indian Agency, Roads Department and we borrow it when we have a big paving job.

Disposed of gauge falling under the following description:

<u>Gauge</u>	<u>Source</u>	<u>Size</u>	<u>Date</u>
Model #B(R)	Type	(MCI)	4/29/82
Serial #72032547	AM-241	50	
	CS-137	10	

See attached letter and confirmation of disposal.