

FORM NRC-313 I
(1-79)
10 CFR 30

U.S. NUCLEAR REGULATORY COMMISSION

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

APPLICATION FOR BYPRODUCT MATERIAL LICENSE
INDUSTRIAL

X a. NEW LICENSE

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 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.

c. RENEWAL OF:
LICENSE NUMBER

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

BLM Prineville District Office

3. NAME OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION

Lawrence C Thomas

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION

447 4115 503

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION

447 4115 503 03710

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

BLM Prineville District Office
PO Box 550
Prineville, Oregon 97754

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

At various sites under
Federal license Jurisdiction within
state of Oregon

(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. Lawrence Charles Thomas

District Soil Scientist

b.

c.

7. RADIATION PROTECTION OFFICER

Lawrence C Thomas

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	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)	CI 137	CS 137	Campbell Pacific Nuclear MC-1	10 mC
(2)	AM 241/Be	AM 241/Be	Campbell Pacific Nuclear MC-1	50 mC
(3)				
(4)				

DESCRIBE USE OF LICENSED MATERIAL
E

FEE EXEMPT

- (1) To be used in Campbell Pacific Nuclear Pontaprobe Model
- (2) MC-1 Simul-Test nuclear soil gauge for the measurement
- (3) of soil moisture and density of construction
- (4) materials

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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)	Fiberglass shipping / storage case	Campbell Pacific Nuclear	MC-1
(2)	meeting D. O. T. Label II		
(3)	requirements		
(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

☐ 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.

N/A

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	United States Testing Company Inc	<input checked="" type="checkbox"/> MONTHLY
<input type="checkbox"/> (2) THERMOLUMINESCENCE DOSIMETER (TLD)	Richland Division	<input type="checkbox"/> QUARTERLY
<input type="checkbox"/> (3) OTHER (Specify): _____	2800 George Washington Way	<input type="checkbox"/> OTHER (Specify): _____
	Richland, Wash 99352	
	509 375-3131	

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

N/A

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.

Returned to Manufacturer

ATTACHMENT FOR NRC LICENSE

This attachment is a part of the license application submitted by:

Bureau of Land Management
Prineville District Office
P.O. Box 550
Prineville, Oregon 97754

15 Radiation Protection Program

- a. The Radiation Protection Officer shall provide all operators with a list of telephone numbers for use in emergencies. This list will include those of the Radiation Protection Officer, the nearest state dept. of Public Health, the nearest NRC Office, and the local police and fire departments.
- b. The Radiation Protection Officer will insure that the gauge unit is securely fastened in all open vehicles with restraining straps or bars and will be locked inside shipping case during transportation.
- c. The Radiation Protection Officer shall leak test the unit using the Campbell Pacific Nuclear Leak Test Kit or other approved leak test kit annually following the instructions for leak testing in the manufacturer's manual.
- d. The Radiation Protection Officer shall insure that the unit is securely in storage area and maintain all records pertaining to use of the unit.

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ATTACHMENT FOR NRC LICENSE

This attachment is a part of the license application submitted by:

Bureau of Land Management
Prineville District Office
P.O. Box 550
Prineville, Oregon 97754

16 Formal Training in Radiation Safety

See attached copy of Certificate of Completion

17 Experience

See attached copy of Certificate of Completion

Certificate of Completion

This is to certify that LAWRENCE C. THOMAS has completed the basic training course on Radiation Safety and Use of Nuclear Soil Gauges, held

this 19th day of SEPTEMBER 19 79, held at City of MEDFORD
OREGON STATE UNIVERSITY

State of OREGON by Campbell Pacific Nuclear Corporation.

PATRICK J. CAMPBELL

INSTRUCTOR

RADIATION SAFETY OFFICER

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)

b. CERTIFYING OFFICIAL (Signature)

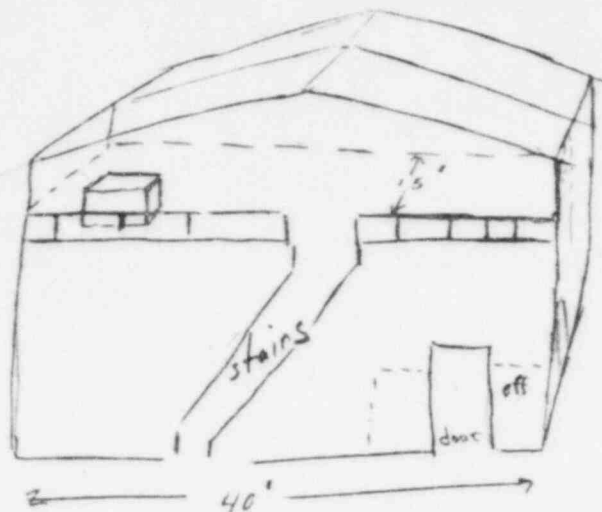
c. NAME (Type or print)

d. TITLE

e. DATE

(1) LICENSE FEE CATEGORY:

(2) LICENSE FEE ENCLOSED: \$



Method B will be used.

The shipping case with portaprobe will be unlocked inside wooden cabinet/box which will be securely fasten and locked. The storage building is the BLM warehouse which is locked at all times when unattended. The cabinet/box is away from the warehouse office and any work area. It is on the second floor of an open bay area.

Roughly sketch the intended storage area around the location of the PORTAPROBE. Include storage cabinet location of doors, desks and work areas. Indicate the average time in hours per week personnel will be in this area.

PUBLIC HEALTH LAWS require Nuclear gauges be kept locked when not in use.

The following procedures may be used, we suggest "B" method, indicate which one you will be using.

- A. A PORTAPROBE shipping case or "like" box, nailed to the floor, inside a cabinet or closet with lock and sign on the case.
- B. PORTAPROBE stored inside cabinet or closet with lock and sign on outside of cabinet. Gauge is not locked inside of the case.
- C. Gauge case is not locked; cabinet is not locked, however room that gauge and cabinet is in is locked with sign on the outside door.

Only licensed users have keys to the PORTAPROBE, or the final door leading to the location of the gauge.

Gauge will be stored where personnel will not be working, or within close proximity for more than an hour or two per day.

A lighted area with an electrical outlet for charging the gauge while in storage would be convenient.

APPLICANT: BLM Prineville District Office		
Storage Location: least BLM Warehouse		
Floor Level: Second	SCALE	DRAWN BY Lawrence L. Thomas
Room Size: 40 x 15	APPROVED BY	
TITLE PROPOSED STORAGE FACILITIES FOR NUCLEAR SOIL GAUGES		
DATE Jan 9 1980	DRAWING NUMBER	