

FORM NRC-313 I (3-80) 10 CFR 30	U.S. NUCLEAR REGULATORY COMMISSION	1. APPLICATION FOR: (Check and/or complete as appropriate)
APPLICATION FOR BYPRODUCT MATERIAL LICENSE INDUSTRIAL		a. NEW LICENSE

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.	b. AMENDMENT TO: LICENSE NUMBER
	c. RENEWAL OF: LICENSE NUMBER X 11-16934-01

2. APPLICANT'S NAME (Institution, firm, person, etc.) Water and Power Resources Service TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION FTS-554-1176	3. NAME AND TITLE OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION Monte C. McVay, Agronomist TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION FTS-554-1176
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4. APPLICANT'S MAILING ADDRESS (Include Zip Code) (Address to which NRC correspondence, notices, bulletins, etc., should be sent.) 550 W. Fort Street Box 043 Boise, ID 83724	5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED (Include Zip Code) Various agricultural fields in the states of Idaho, Oregon, and Washington. Permanent storage facilities in Burley, ID & Boise, ID
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(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.	Earl Corless	Irrigation Management Specialist
b.	Leo Busch	Supervisory Hydrologist
c.	Dennis Davis	Agronomist

7. RADIATION PROTECTION OFFICER Monte McVay	Attach a resume of person's training and experience as outlined in Items 16 and 17 and describe his responsibilities under Item 15. See Item 15
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8. LICENSED MATERIAL

L I N E 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)	Americium 241	Sealed Source	Campbell Pacific Nuclear - #CPN131	10 sources of 50 millicuries each
(2)				
(3)				
(4)				

DESCRIBE USE OF LICENSED MATERIAL
E

(1)	Performing soil moisture tests in fields containing agricultural crops.
(2)	
(3)	
(4)	

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)	Moisture measuring gage	Campbell Pacific Nuclear	503
(2)	Model 503		
(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 required for this application.					
(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 <input type="checkbox"/> (2) THERMOLUMINESCENCE DOSIMETER (TLD) <input type="checkbox"/> (3) OTHER (Specify): _____	Radiation Detection Co. P.O. Box 1414 Sunnyvale, CA 94088	<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

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.

Sealed sources will be returned to manufacturer upon termination of use.

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.—1 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 10.31, 10 CFR 170)

Exempt

b. CERTIFYING OFFICIAL (Signature)

c. NAME (Type or print)

L. W. Lloyd

(1) LICENSE FEE CATEGORY:

d. TITLE

Regional Director

(2) LICENSE FEE ENCLOSED: \$

e. DATE

2-24-81

#5-

Locations of Hydropribes

PN Region

~~WPR~~ WPRS

Probe # ²³⁶⁶ H36071652 - Tualatin Valley Irr. Dist. ?
2330 Elm St. Forest Grove, OR
97116

located in locked, marked compartment in warehouse.

Pribes # H36051653 - Minidoka Project office
H36071723 1359 Hansen Ave.
Burley, Id. 83318

located in locked store room in adjacent warehouse.

Probe # H36071724 - Permanent location
Central Snake Project office
214 Broadway
Boise, Id 83702

located in locked box in Vault in unoccupied basement.

06980

Locations of Hydroprobes

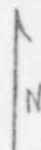
PN Region

WPRS

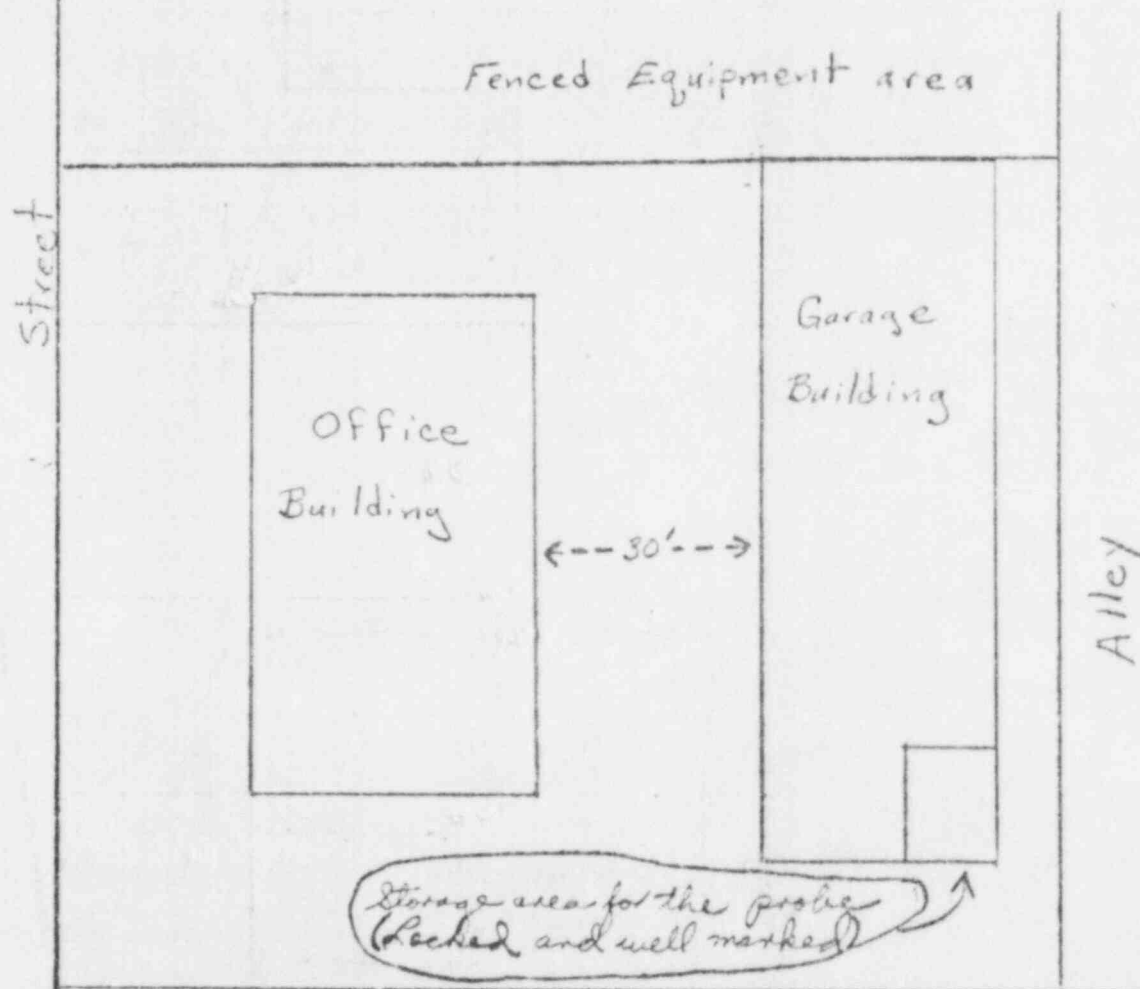
Amended 5/80.

Hydroprobe # H36071724 is temporarily stored in
its locked case in a locked room away from
personnel at the Lake Chelan Reclamation District
office, Manson, Wash. ~~_____~~

Minidoka Project Office
Burley, Idaho



— = 10 feet

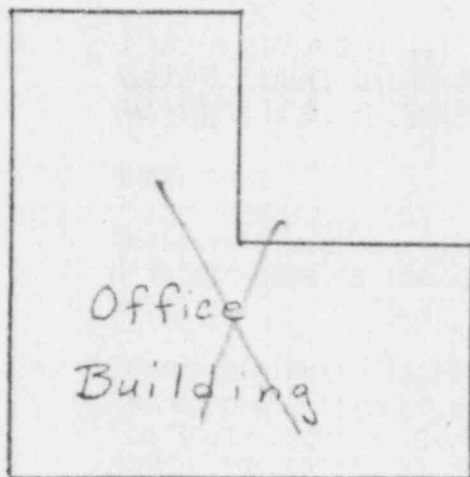


Street

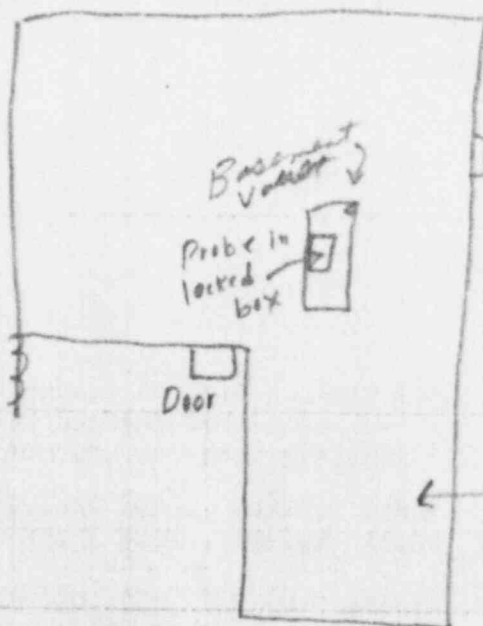
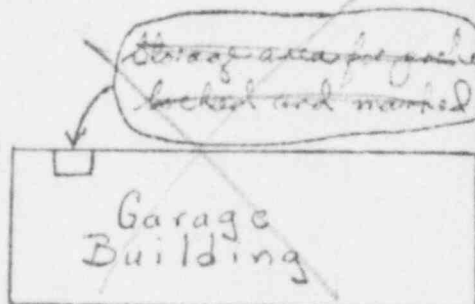
Central Snake Project Office
Boise, Idaho



— = 10 feet



225'



Door

No Personnel occupying
basement area.

office Bldg.

	<u>Full Name</u>		<u>Title</u>
6. d.	V. Keith Ebersole	-	Irrigation Management Specialist
e.	Angelo Colianni	-	Soil Conservationist
f.	Monte McVay	-	Agronomist
g.	Walter M. Nichols	-	General Supply Clerk
h.	Jack H. Hansen	-	Civil Engineering Technician
i.	James R. Canning	-	Assistant Regional Safety Officer

P.S. Under the conditions stipulated in Amendment #4 of this license, we are again submitting a copy of the information necessary to qualify the named individual in 6(d) to perform in-house training for Water and Power Resources Service personnel.

FEE EXEMPT