

APPLICATION FOR MATERIAL LICENSE

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

FEDERAL AGENCIES FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS
WASHINGTON, DC 20555

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS, IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I
NUCLEAR MATERIAL SECTION B
631 PARK AVENUE
KING OF PRUSSIA, PA 19406

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION II
MATERIAL RADIATION PROTECTION SECTION
101 MARIETTA STREET, SUITE 2900
ATLANTA, GA 30323

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION III
MATERIALS LICENSING SECTION
799 ROOSEVELT ROAD
GLEN ELLYN, IL 60137

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
MATERIAL RADIATION PROTECTION SECTION
611 RYAN PLAZA DRIVE, SUITE 1000
ARLINGTON, TX 76011

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION V
MATERIAL RADIATION PROTECTION SECTION
1450 MARIA LANE, SUITE 210
WALNUT CREEK, CA 94596

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTION.

1. THIS IS AN APPLICATION FOR (Check appropriate item)

- ☒ A. NEW LICENSE
☐ B. AMENDMENT TO LICENSE NUMBER _____
☐ C. RENEWAL OF LICENSE NUMBER _____

2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code)

Prinkki and Associates
3425 Lloyd Court
Missoula, Montana 59803

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED.

3425 Lloyd Court, Missoula, Montana 59803 and temporary jobsites of the applicant where U.S. NRC has jurisdiction over byproduct material. Also, occasionally stored at Harlow and Associates, 801 Ronan Street, Unit 3, Missoula, Montana-59806, U.S. NRC License No. 25-23162-01.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Larry Prinkki

TELEPHONE NUMBER

406- 251-4491

SUBMIT ITEMS 5 THROUGH 11 ON 8 1/2 x 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL

a. Element and mass number, b. chemical and/or physical form, and c. maximum amount which will be possessed at any one time.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

9. FACILITIES AND EQUIPMENT

8507170330 850502
REG4 LIC30
25-23175-01 PDR

10. RADIATION SAFETY PROGRAM.

11. WASTE MAN

12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY 3P AMOUNT ENCLOSED \$ 230.00

13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN, IS TRUE AND CORRECT TO THE BEST OF THEIR 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.

SIGNATURE—CERTIFYING OFFICER

TYPED/PRINTED NAME

TITLE

DATE

Larry A. Prinkki

Larry Prinkki

Owner

4/8/85

14. ANNUAL RECEIPTS

14. VOLUNTARY ECONOMIC DATA

☒ <\$250K
☐ \$250K-\$500K
☐ \$500K-\$750K
☐ \$750K-\$1M

b. NUMBER OF EMPLOYEES (Total for entire facility excluding outside contractors)

2

c. NUMBER OF BEDS

N/A

d. WOULD YOU BE WILLING TO FURNISH COST INFORMATION (Dollar and/or staff hours) ON THE ECONOMIC IMPACT OF CURRENT NRC REGULATIONS OR ANY FUTURE PROPOSED NRC REGULATIONS THAT MAY AFFECT YOU? (NRC regulations permit it to protect confidential commercial or financial—proprietary—information furnished to the agency in confidence)

☒ YES

☐ NO

FOR NRC USE ONLY

TYPE OF FEE
APPL.

FEE LOG

Apr. 21

FEE CATEGORY

3P

COMMENTS

APPROVED BY

Frances Brown

AMOUNT RECEIVED

\$230

CHECK NUMBER

3561

Prinkki

DATE

4/18/85

PRIVACY ACT STATEMENT

Pursuant to 5 U.S.C. 552a(e)(3), enacted into law by section 3 of the Privacy Act of 1974 (Public Law 93-579), the following statement is furnished to individuals who supply information to the Nuclear Regulatory Commission on NRC Form 313. This information is maintained in a system of records designated as NRC-3 and described at 40 Federal Register 45334 (October 1, 1975).

1. **AUTHORITY:** Sections 81 and 161(b) of the Atomic Energy Act of 1954, as amended (42 U.S.C. 2111 and 2201(b)).
2. **PRINCIPAL PURPOSE(S):** The information is evaluated by the NRC staff pursuant to the criteria set forth in 10 CFR Parts 30, 32, 33, 34, 35 and 40 to determine whether the application meets the requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations, for the issuance of a radioactive material license or amendment thereof.
3. **ROUTINE USES:** The information may be (a) provided to State health departments for their information and use; and (b) provided to Federal, State, and local health officials and other persons in the event of incident or exposure, for their information, investigation, and protection of the public health and safety. The information may also be disclosed to appropriate Federal, State, and local agencies in the event that the information indicates a violation or potential violation of law and in the course of an administrative or judicial proceeding. In addition, this information may be transferred to an appropriate Federal, State, or local agency to the extent relevant and necessary for an NRC decision or to an appropriate Federal agency to the extent relevant and necessary for that agency's decision about you.
4. **WHETHER DISCLOSURE IS MANDATORY OR VOLUNTARY AND EFFECT ON INDIVIDUAL OF NOT PROVIDING INFORMATION:** Disclosure of the requested information is voluntary. If the requested information is not furnished, however, the application for radioactive material license, or amendment thereof, will not be processed. A request that information be held from public inspection must be in accordance with the provisions of 10 CFR 2.790. Withholding from public inspection shall not affect the right, if any, of persons properly and directly concerned need to inspect the document.
5. **SYSTEM MANAGER(S) AND ADDRESS:** U.S. Nuclear Regulatory Commission
Director, Division of Fuel Cycle and Material Safety
Office of Nuclear Material Safety and Safeguards
Washington, D.C. 20555

RECEIVED
APR 15 P2 52
U.S. N.R.C. BRANCH
LIC. FEE MGMT. BRANCH

PRINKKI AND ASSOCIATES
Consulting Engineering Geologists
3425 Lloyd Court
Missoula, Montana

Attachment for NRC Form 313
Application for Material License

Item 5

Radioactive Material

- A. Element & Mass Number
CS-137 & AM 241:Be
- B. Chemical and/or Physical Form
All sealed sources
- C. Maximum amount which will be possessed at any one time
Troxler Moisture/Density Gage 2400 and 3400 Series Models
not to exceed 10mCi CS-137 and 50 mCi AM-241:Be per source.
Manufacturer is the Troxler Electronic Laboratory Inc.

Cambell Pacific Moisture/Density Gage Model B(R) Mk 11, Model
MC-1 and MC-3 not to exceed 10mCi CS-137 and 50 mCi AM-241:Be per
source. Manufacturer is Cambell Pacific Nuclear.

Item 6

Purpose for the licensed material

For use in Troxler 2400 and 3400 Series Models and Cambel Pacific
Model B(R)Mk 11, MC-1 and MC-3 Moisture/Density Gages to measure
surface moisture and density of construction materials. Gages are
manufactured by Troxler Electronic Laboratory Inc. and Cambell
Pacific Nuclear, respectively.

Item 7

Individual responsible for Radiation Safety Program and thier training
and experience.

Larry Prinkki, or any individuals who have completed the manufacturers
training course and have been instructed in our operating and
emmergency proceedures. Copies of their certificate of training for
each user will be maintained in our files. Attached is the Certificate
of Training for Larry Prinkki. Larry Prinkki has worked with nuclear
gages for the last 11 years while working for the U.S. Forest Service.

Item 8

All other employees using the nuclear gages will do so under the supervision
of Larry Prinkki. Each employee will receive training from the applicable
manufacturers training program. Individual training records will be maintain-
ed for each employee for a minimum of two (2) years.

460593

Item 9

Facilities and Equipment

Equipment will be stored at two permanent locations and at numerous temporary job sites.

A. Permanent Locations

1.) 3425 Lloyd Court, Missoula, Montana - the gage(s) will be stored in an eight(8) foot Bell Camper- slide in model. The camper is of standard metal/wood construction with only one door for access. There are no windows or other openings that would allow access. The door is located at the rear of the camper and is double locked with a slide-bolt key lock and with a security hasp and padlock. The gage(s) will be secured in individual compartments inside the camper. The camper will be signed according to 10 CFR 20.203.

The camper will be used to store and transport the nuclear gages as well as other soil testing equipment. When not being used for project work the camper will be unloaded off the transporting vehicle and stored at the back of the property located at this address. See attached sketch.

2.) 801 Ronan Street, Unit 3, Missoula, Montana- the gage(s) will be stored according to License No. 25-23162-01, U.S. NRC, expiration date, 2/28/1990 issued to Harlow & Associates.

B. Temporary Job Sites

The gage(s) will be transported and stored in the Bell Camper discussed above. The camper will be kept locked at all times except when the gage(s) are being used on project location. The gage(s) will be under direct supervision and physically watched by an authorized user at all times when not in storage.

C. Film Badges

1.) Provided by U.S. Testing, 2800 George Washington Way, Richland, WA 99352

2.) Monitered monthly and changed monthly.

Test

D.) Leak Kits

1.) Troxler Model 2880 or equivalent leak test kit provided by Troxler Electronic Laboratories Inc.

2.) Leak tests will be performed every six (6) months and will be performed by the Radiation Safety Officer

E. Only routine maintenance will be performed on the nuclear gage(s) according to manufacturers specifications. The safety sheild will be in place during any maintenance.

Item 10

Radiation Safety Program- See Attached Radiation Safety Program

Item 11

Waste Management

Sources will be returned to manufacturer when use is discontinued of each source.

460593

Item No. 10

Prinkki & Associates
Consulting Engineering Geologists
3425 Lloyd Court
Missoula, Montana 59803

Radiation Safety Officer- Larry Prinkki

A. SAFETY PROCEDURES

1. Do not operate or attempt to operate a gauge unless you have been authorized to do so.
2. Do not attempt to repair, modify or open the sealed source under any circumstances.
3. Wear a film badge at all times while operating or transporting a gauge.
4. Follow operating procedures, when using the gauge, in accordance with the Troxler instruction manual, the radiation control regulations and this safety program.
5. Keep unauthorized persons away from the gauge.
6. Do not leave the gauge unattended when in use or outside of the storage enclosure or locked vehicle.
7. Keep the gauge in the "SAFE" or storage position when not in use.
8. Be sure that the gauge is locked within an authorized enclosure (e.g. closet, cabinet, vehicle, etc.) when it is not in use. Security against the theft of a radioisotope is of utmost importance and must not be neglected. The storage enclosure must be labeled with a radiation warning sign bearing the symbol as described in 10 CFR 20.203 and the words "CAUTION RADIOACTIVE MATERIALS".
9. Gauge(s) may be only transported by authorized personnel in approved vehicles. The gauge(s) may not be transported on the front or rear seats of any vehicle. If a pickup truck is used the gauge(s) must be locked in an enclosure (e.g. cabinet, shipping case, etc.) and the enclosure tied securely (e.g. chained, bolted, etc.) to the body of the truck in order to prevent loss or theft.
10. Ensure that the gauge is leak tested at the intervals required by the licensee's Radioactive Materials License. The wipe sample will be collected by the Radiation Safety Officer using a **APPROVED** model leak test kit.
11. When in doubt, ask your Radiation Safety Officer.

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1. Accidents

- a. In the event of possible damage to source or source control mechanism, the operator will keep unauthorized persons at least ten feet from gauge and prevent removal of gauge from site until authorized by RSO or appropriate authority.
- b. If there is any possibility the source capsule might be ruptured, the location must be covered by a sheet of material (plastic, tarp, etc.), held down by weights (rocks, bags of material, etc.) to prevent scattering of radioactive material by the elements.
- c. The operator must then immediately notify his RSO of the incident and give an appraisal of the probable condition of the source.
- d. The RSO will then immediately notify the following authority who will provide instructions and assistance in accordance with the circumstances of the incident.

Region IV, USNRC
Office of Inspection & Enforcement
611 Ryan Plaza Dr., Suite 1000
Arlington, TX 76012
24 hour telephone (817) 334-2841

2. Source stolen or lost.

- a. The operator must immediately notify local police or other law enforcement agency within whose jurisdiction the incident occurred.
- b. The operator must also notify his RSO who will notify the authority listed in item B-1-d above.

C. DUTIES OF THE RADIATION SAFETY OFFICER

1. Assure compliance with all pertinent parts of the controlling agency's (NRC or agreement state as applicable) regulations.
2. Assure compliance with the conditions in licensee's Radioactive Materials license and amendments and above items given in this safety program.
3. Maintain the following items in a radiation file and keep available for inspection by controlling agency if requested.
 - (a) Current Radioactive Materials License.
 - (b) Copies of license application, attachments and all pertinent correspondence referred to in the conditions of the license and amendments.
 - (c) Gauge Source Certificate(s) issued with the gauge(s) by the manufacturer.
 - (d) Film badge or TLD reports.
 - (e) Leak test reports.
 - (f) Records concerning disposal, inventory and useage of source(s).
 - (g) Copies of this safety program.
 - (h) A current copy of the controlling agency's regulations.

460593

NUCLEAR TESTING SERVICES

HEREBY CERTIFIES THAT

LARRY PRINKKI

of

ENGINEERING GEOLOGY CONSULTANT

HAS SUCCESSFULLY COMPLETED THE NUCLEAR TESTING SERVICES TRAINING
COURSE FOR THE USE OF NUCLEAR TESTING EQUIPMENT.

Subjects included in this course were as follows:

RADIOLOGICAL SAFETY

- | | |
|--|---|
| 1. Principles and practices of radiation protection | 5. Radioactivity measurement standardization and monitoring techniques and instruments. |
| 2. Leak testing procedures. | 6. Accident and incident procedures. |
| 3. Mathematics and calculations basic to the use and measurement of radioactivity. | 7. Procedures for nuclear gauge storage and transportation. |
| 4. Biological effects of radiation. | 8. General safety precautions. |

GAUGE OPERATION

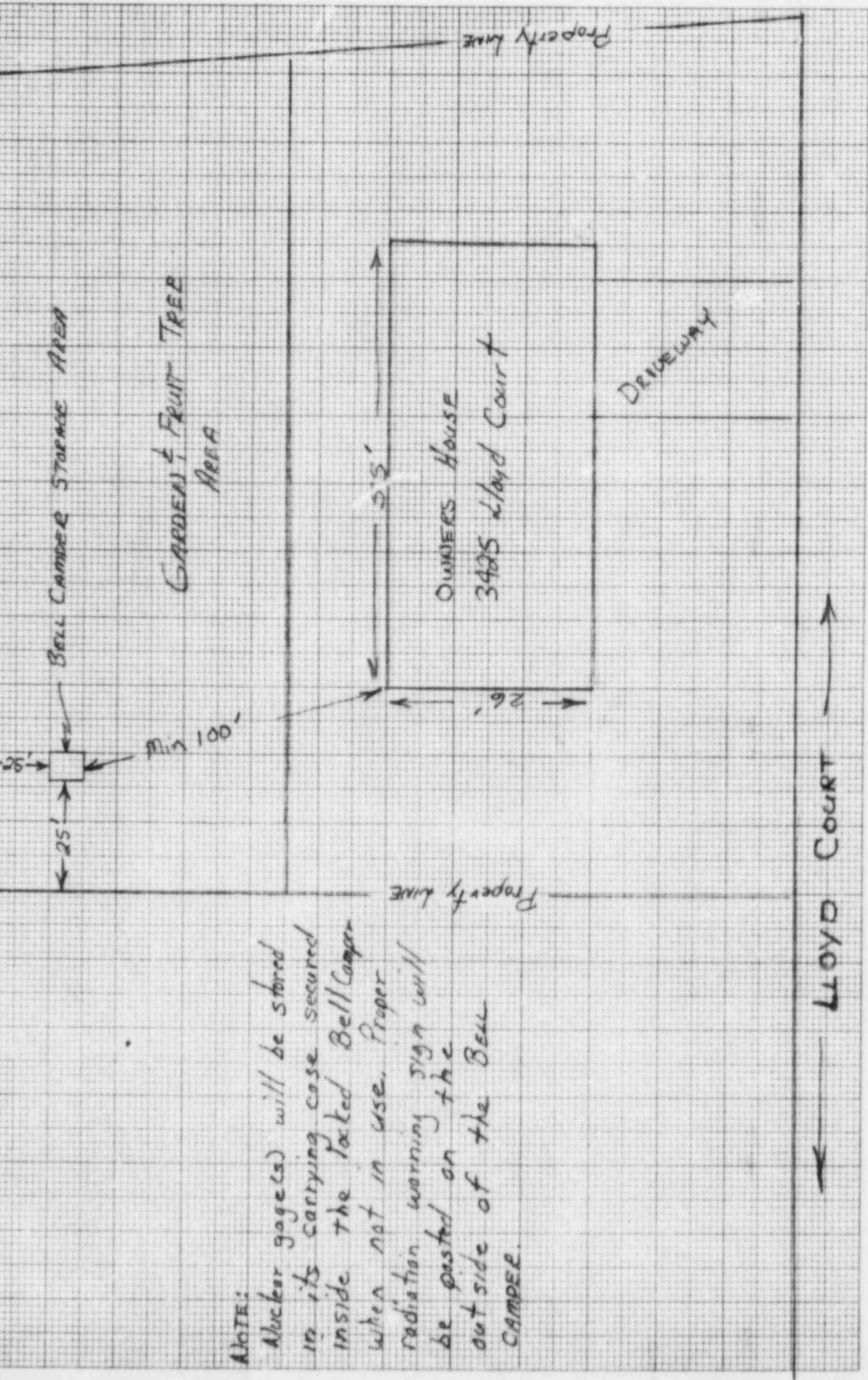
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|-------------------------|----------------------|
| 1. Instrument theory | 4. Field application |
| 2. Operating procedures | 5. Gauge calibration |
| 3. Maintenance | |

Donald C. Muir
INSTRUCTOR

2-22-85
DATE

Donald C. Muir

STORAGE AREA SKETCH - NUCLEAR DENSITY GAGE - PRINKE & ASSOCIATES 3425 Lloyd Court MISSOURI 64111 54803



4/2/85

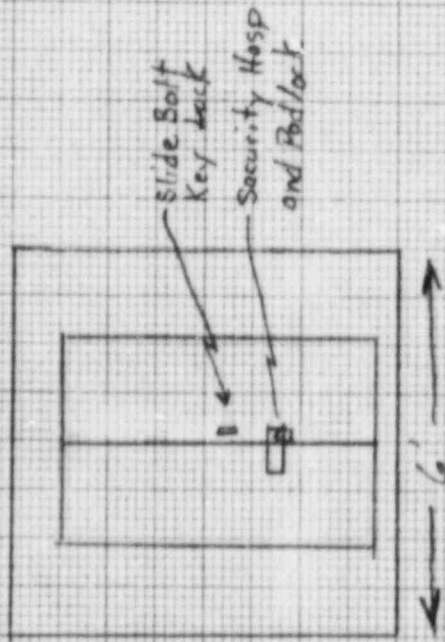
460593

STORAGE AREA SKETCH - NUCLEAR DENSITY GAGE - PEINKE & ASSOCIATES

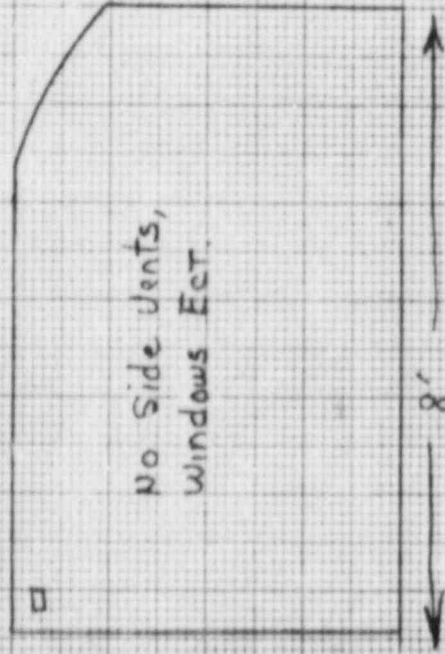
BELL CAMPER VIEWS

3425 Lloyd Court
Millsville, MT 59803

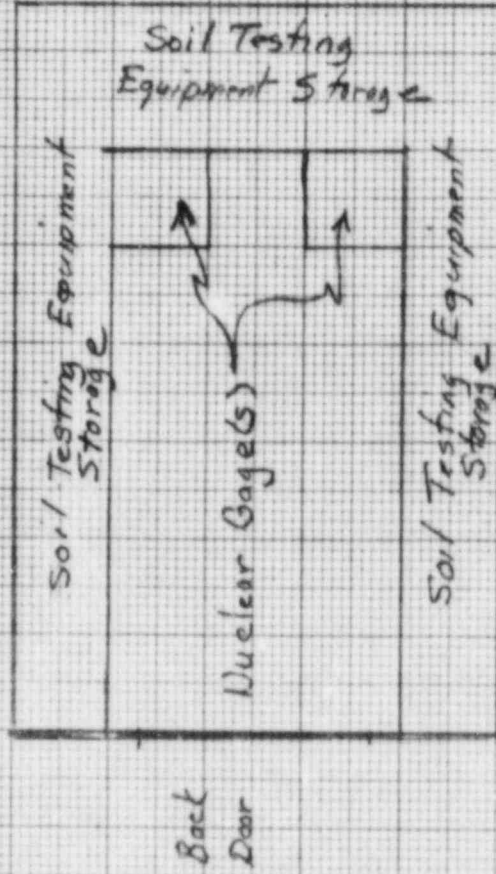
BACK-VIEW



SIDE-VIEW



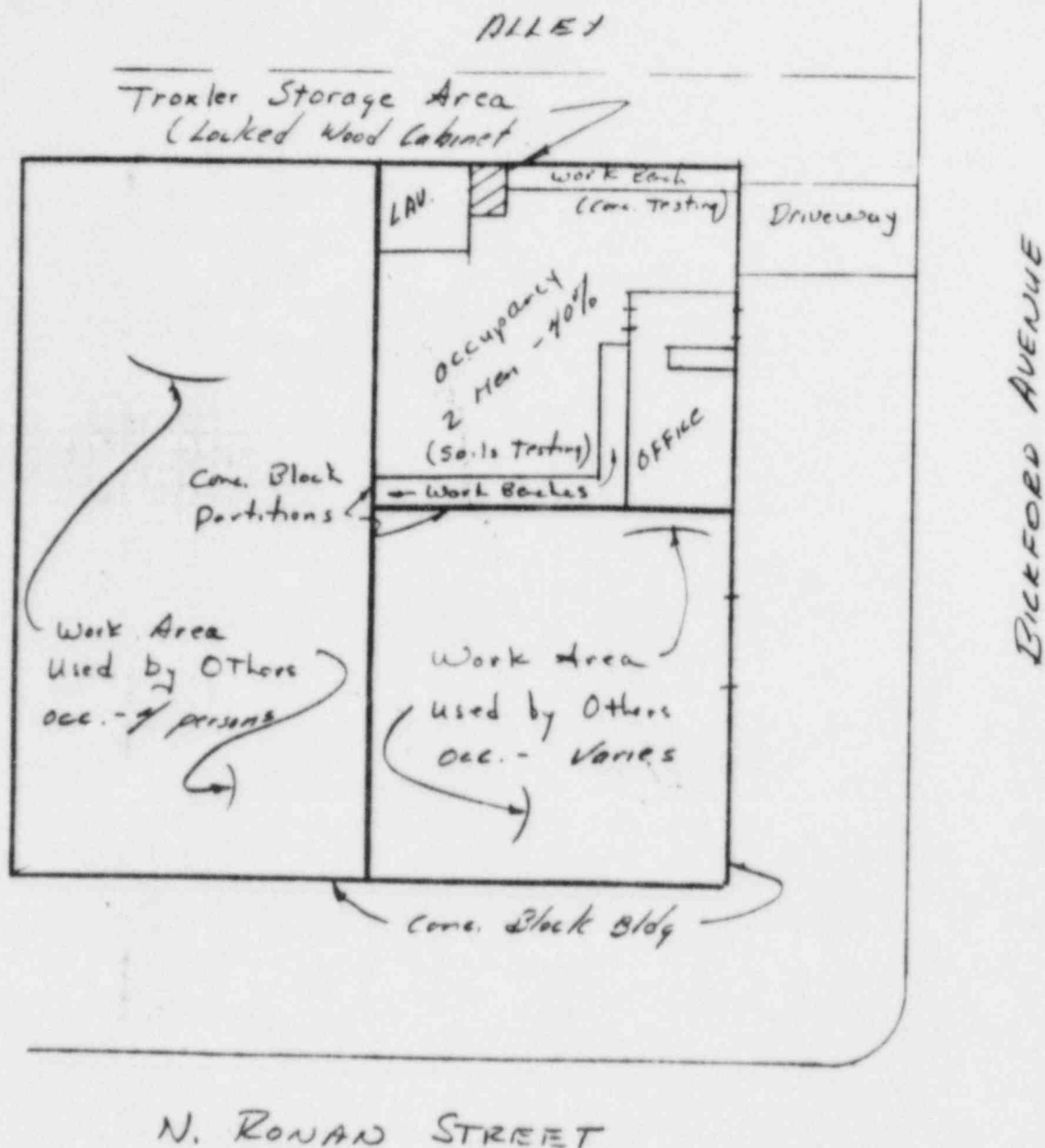
EXPLODED TOP-VIEW



Note: Nuclear gage(s) will be stored in its carrying case and secured in the location shown in the Bell Camper. Camper will be locked and will be signed according to 10 CFR 80.203.

4/8/85

STORAGE SKETCH NUCLEAR GAGE
 FOR 801 N. RONAN STREET
 Harlow & Associates - NRC No. 25-23162-01



Note:

Trexler will be stored
 in its carrying case
 and in a locked cabinet
 when not in use.

Storage Cabinet will have
 the proper radiation
 warning sign.

STORAGE SKETCH
 NUCLEAR DENSITY TESTING
 DEVICE
 NRC LICENSE APPLICATION
 HARLOW & ASSOCIATES
 P.O. Box 3225
 MISSOULA, MT

LOCATION: 801 N. RONAN
 Unit 3

MISSOULA, MT
 460593
 12/11/81