

APPLICATION FOR MATERIAL LICENSE

U.S. NUCLEAR REGULATORY COMMISSION  
APPROVED BY OMB  
3150-0120  
Expires: 5-31-87

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)

Ken Plummer, Jr. Inc.  
527 Lincoln way East  
Chambersburg, PA 17201

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

At address listed in item 2 and at temporary job sites through out the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction over the use of by-product material.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Noel Y. Schooley

TELEPHONE NUMBER

(717)264-5876

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

8510290458 851004  
REG1 LIC30

37-20842-01 PDR

10. RADIATION SAFETY PROGRAM.

11. WASTE M.

12. LICENSEE FEES (See 10 CFR 70 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

Noel Schooley

TITLE

Safety Officer

DATE

4/29/85

14. ANNUAL RECEIPTS

<\$250K	\$1M-3.5M
\$250K-500K	\$3.5M-7M
\$500K-750K	\$7M-10M
\$750K-1M	>\$10M

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

3

16. NUMBER OF BEDS

1

17. WOULD YOU BE WILLING TO FURNISH COST INFORMATION (Daily and/or shift 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

May 6 I

FEE CATEGORY

3P

COMMENTS

AMOUNT RECEIVED

#230

CHECK NUMBER

3655

APPROVED BY

Frances Brown

DATE

5/15/85 ML10

"OFFICIAL RECORD COPY"

MAY 06 1985



## Ken Plummer, Jr., Inc.

### Engineering and Construction

P.O. Box 1012  
527 Lincoln Way East  
Chambersburg, PA 17201  
(717) 264-5876

Kenneth H. Plummer, Jr., P.E.  
President

Noel Y. Schooley  
Vice President

5 Troxler 3401, 3411-5A, 5B, 61

a. Radionuclei	b. Form	c. Troxler Drawing	d. Maxium Amount
5A Cs-137	Metal Solid Special Form	A-102112	Not to exceed 9 MCI per Source
5B As-241:Be	Metal Solid Speical Form	A-102451	Not to exceed 44 MCI per source

6-1 to used in Troxler Model 3411-B Series surface moisture/density gauges to measure density and moisture properties of construction materials (soils, asphalt)

7 Noel Schooley attended the Troxler nuclear gauge training course.

8 Noel Schooley, Jeryl Yeager, and Reuben Brady have attended the Troxler nuclear guage training course.

9 Enclosed is a sketch where gauge will be stored when not in use.

10 Enclosed is my radiation safety procedures.

11 We would either turn the guage back to the manufacturer or sell to another licensed user.



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### Engineering and Construction

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(717) 264-5876

Kenneth H. Plummer, Jr., P.E.  
President

Noel Y. Schooley  
Vice President

### Radiation Safety Program

#### 1 Radiation Safety Officer

A Noel Schooley has been designated as the company radiation safety officer and will assume the duties and responsibilities that include the following:

- 1 To ensure that all terms and conditions of the license are being met and that the information contained in the license is up-to date.
- 2 To ensure that the equipment has been leak tested in the required timely manner and that the leak test is performed in the manner prescribed by the equipment manufacturer.
- 3 To ensure that the use of the equipment is only by individuals that have been authorized by the radiation safety officer and that all users wear personnel monitoring equipment when utilizing the equipment.
- 4 To maintain the records as required by the license and the regulations. These records shall include personnel exposure records, leak test records and training certificates for all users.
- 5 To ensure that the equipment is properly secured against unauthorized removal at all times when it is not in use.
- 6 To serve as a point of contact and give assistance in case of emergency such as equipment damaged in the field or theft and to notify the proper authorities in case of emergency.
- 7 To ensure that all users have read and understand the radiation safety operating and emergency procedures.
- 8 To post NRC notice to employees in a highly visible area.
- 9 To post Warning Radioactive Material on the storage location.



## 2 Operating Procedures

### A Transportation of Equipment

- 1 All possible means shall be provided to ensure that the equipment is fully secured in the transporting vehicle and the equipment is away from the passenger compartment when transporting in an enclosed vehicle (car or van), the vehicle will be locked. When transporting in an open bed vehicle, the gage will be securely fastened and locked to the truck bed.
- 2 The gage will be transported in the Troxler transportation case, which has been properly labeled.
- 3 At all times during transport, the operator will have a properly completed Bill of Lading for each gage, and a copy of the source certificate.

### B Utilization Procedures

- 1 When the gage is in the field, we as the authorized user will maintain control over the gauge at all times. The gauge will never be left unattended.
- 2 When not making measurements, the gage will be placed in the transportation case and returned to its permanent storage area as soon as possible. The gage will be used for its intended purpose only. By doing so, we will maintain any radiation exposure to as low as reasonable attainable.
- 3 When using the equipment, we will wear the personnel monitoring device that has been assigned to us. When we are not using the equipment, our monitoring device will be stored in the radiation free area that has been designated in the office.
- 4 A utilization log book will be kept to control the gage(s) location at all times. A formal inventory will be done every six months.

C Maintenance and Leak Test Procedures

- 1 Periodic maintenance will include cleaning the gage. During any maintenance, we will wear our personnel monitoring device. Sometimes when cleaning, the source rod will be removed, but will be placed in a lead pig or at least 20 feet away from any individual to limit exposure.
- 2 No maintenance will be performed in which the radioactive source is removed from the gage. For this type of maintenance, the gage will be returned to the manufacturer
- 3 The leak test will be performed using the Troxler Model 3880 Leak Test Kit. The leak test will be performed using the manufacturer's instructions. Again, the personnel monitoring device will be employed. Gages will be leak tested at intervals not to exceed six (6) months, and reports kept on file.
- 4 The film badges will be acquired thru RS Landover & Company; 2 Science Road; Glenwood, IL 60425. Exchange frequency will be quarterly with reports posted for gage operators.

3 Emergency Procedures

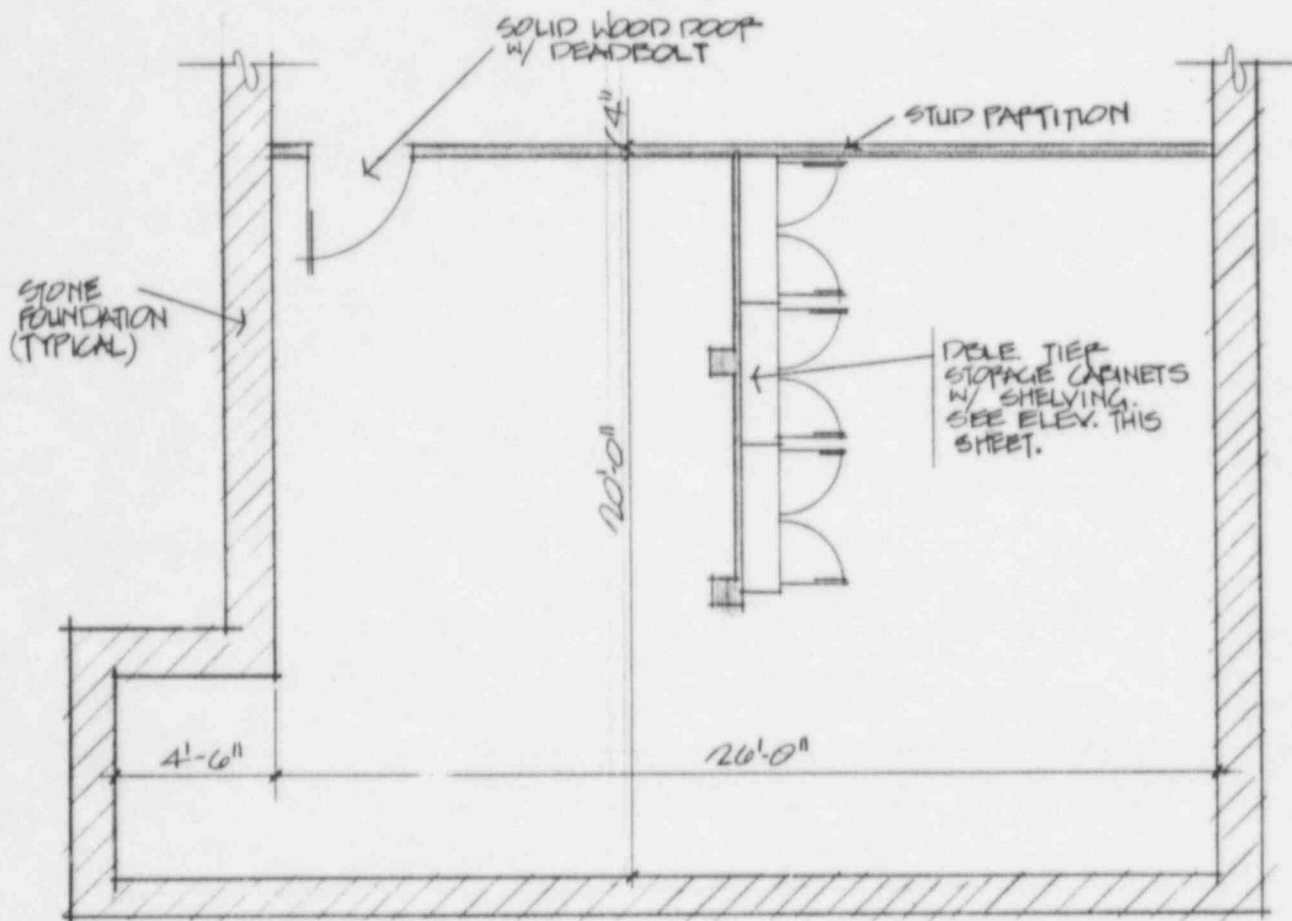
A In the event of physical damage to a gage, the following will be performed:

- 1 Immediately cordon off an area around the gage. An area radius of 15 feet will be sufficient.
- 2 If a vehicle is involved, it must be stopped until the extent of contamination, if any can be established.
- 3 A visual inspection of the gage is to be made to determine if the source housing and/or shielding has been damaged.
- 4 At the earliest possible time, when the situation is under control, we will contact Noel Schooley at (717)264-5876. Describe the present conditions and follow the instructions of the Radiation Safety Officer.

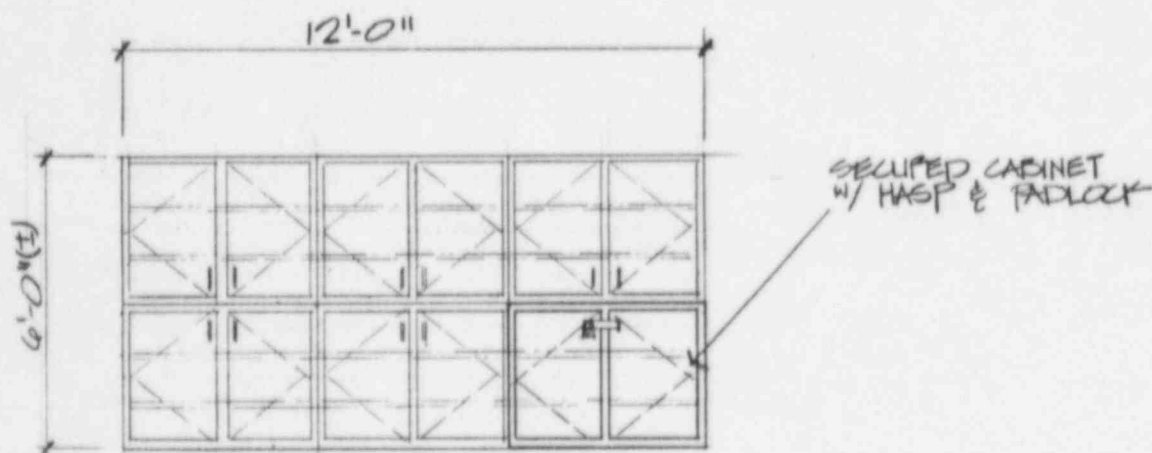
5 A copy of these instructions will be with the gage operators in the field.

B In the event the gage is lost or stolen, we will immediately notify the Radiation Safety Officer listed above in item 3 A4.





BASEMENT STORAGE - FLOOR PLAN -  
 SCALE:  $3/16" = 1'-0"$



- CABINET ELEVATION -  
 NO SCALE

1 MAY '85

William O. Miller, Chief  
License Fee Management Branch  
Office of Administration

John E. Glenn, Chief  
Nuclear Materials Section B  
Division of Engineering and  
Technical Programs

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

Applicant/Licensee: Ken Plummer, Jr., Inc

Application Dated: 4/29/85

Control No.: 03763

License No.: New

2. FEE ATTACHED

Amount: \$ 230.00

Check No.: 3655

3. COMMENTS

Signed Brenda Platchek

Date 5/7/85

B. LICENSE FEE MANAGEMENT BRANCH

1. Fee Category and Amount: 3P \$230

2. Correct Fee Paid. Application may be processed for:

Amendment                     

Renewal                     

License                     ✓                    

Signed Frances Brown

Date 5/15/85

New

108  
5/17/85



"SECTION COPY"

KEN PLUMMER, JR., INC.  
ENGINEERING AND CONSTRUCTION  
P.O. BOX 1012, 527 LINCOLN WAY EAST  
CHAMBERSBURG, PA. 17201  
PH. 717-264-5876

3655

60-430  
313 8

May 1 1987

PAY  
TO THE  
ORDER OF

U.S. Nuclear Regulatory Commission  
Two Hundred Thirty Dollars and 00/100

\$ 330.00

DOLLARS



Chambersburg, PA 17201

FOR DEPOSIT

⑆003655⑆ ⑆031304306⑆ ⑆035169⑆