

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)

Fred Rogers, Superintendent of Highways
Peoria County Courthouse, Room 302
Peoria, Illinois 61602

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

Fred Rogers
6917 W. Plank Rd.
Peoria, IL. 61604

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Thomas E. Campbell

TELEPHONE NUMBER

309-672-6072

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.

8511180398 851002
REG3 LIC30
12-24545-01 PDR

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

RADIATION SAFETY PROGRAM.

9. FACILITIES AND EQUIPMENT

11. WASTE MANAGEMENT.

None

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

FEE CATEGORY

AMOUNT

ENCLOSED \$ -0-

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

Fred Rogers

Fred Rogers

Superintendent of Highways 7/24/85

14. VOLUNTARY ECONOMIC DATA

a. ANNUAL RECEIPTS

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

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

c. NUMBER OF BEDS

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

RECEIVED

TYPE OF FEE

FEE LOG

FEE CATEGORY

COMMENTS

AMOUNT RECEIVED

CHECK ONE

CONTROL NO. 79419

DATE

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

FEB 6 1982

REGION III

EXEMPT

Answers to Questions 5-11

5. Radio-Active Material

(a) Element & Mass Number

1. Cesium-137
2. Americium-241: Beryllium

✓ok (b) Chemical and/or physical form
SPECIAL Form

(c) Maximum Amount

1. Cesium-137 8 mci. \pm 1% *- 9mCi*
2. Americium 241 & Beryllium 40 mce. \pm 10% *- Troxler Drawing No. A-102112*

6. Purposes for Licensed Material

To determine moisture content & densities of soils, stone aggregates, and Portland/Bituminous Cement Aggregate Pavements.

7. Individuals Responsible for Radiation Safety Program and their training & experience

Safety Officer:

Thomas E. Campbell
2716 W. Scenic Dr.
Peoria, IL. 61615 Phone: 682-9196

Stand-by:

Robert M. French
7700 N. Derby Rd.
Peoria, IL. 61614 Phone: 692-5815

8. Training for individuals working in or frequently restricted areas.

- (1.) Operators Training: The Nuclear Density Maching Operators have successfully completed the Illinois Dept. of Transportation course, "Radiation Safety and Density by the Nuclear Method."
(Please see attached copy of letter.)
- (2.) Personnel, using the Soils Lab, are of a very low frequency pattern. Engineers or technicians who do use the Lab would only be there about $\frac{1}{2}$ day out of a month or two. Those personnel who have access to the Soils Lab will be notified of the radiation dangers & the limits. If at any time, we need a full time Lab Technician, he or she will be notified of the radiation limits.

9. Facilities and Equipment

A. Equipment

(1) Survey Meters - assigned by Peoria Civil Defense Dept.

(a) Description: Manufacturer

Victoreen Instrument Co.
5806 Hough Ave.
Cleveland, Ohio

Serial Nos.

OCD Item No. CD V-700 29739
Model No. 6B

OCD Item No. CD V-715 201410
Model No. 1A

Range: 0 to 500 Roentgens/hr.

CD V-700 Min. Range 0 to 500 mR/hr.

CD V-715 Max. Range 0 to 500 R/hr.

- ✓ monthly exchange*
- (2) Film Badges for Operators: Film badges will be ordered for our two operators and Lifetime Dosages will be recorded for all of our operators.

Badges will be ordered from: R.S. Landauer, Jr. & Co.
2 Science Road
Glenwood, IL. 60425-1586

B. Facilities (Storage) *✓ OK*

The Troxler Model 3401 B Nuclear Density Machine will be stored at our Soils Laboratory at Maxwell Maintenance Facilities. The address is as follows: Peoria County Highway Maintenance Bldg.
6917 W. Plank Rd.
Peoria, IL. 61604

10. Radiation Safety Program

(a) Wipe Test

(a) Every 6 months, both radiation sources of the Nuclear Gauge will be wiped with filter paper and sent to Lab to be tested for leakage. Results will be recorded. (If filter paper has a reading greater than .05 mR/hr., it will not be sent through the mail, but will be properly disposed.)

(b) Radiation Recordings

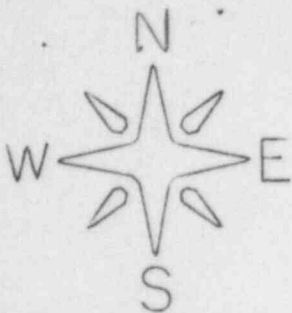
1. Semi-annually, radiation levels will be read of all 4 Ext. walls of the "Hot Room" and recorded for monitoring purposes.
2. Film badges will be recorded for all approved operators. (include Lifetime dosages.)
3. Wipe test results will also be recorded for monitoring.

(c) Security

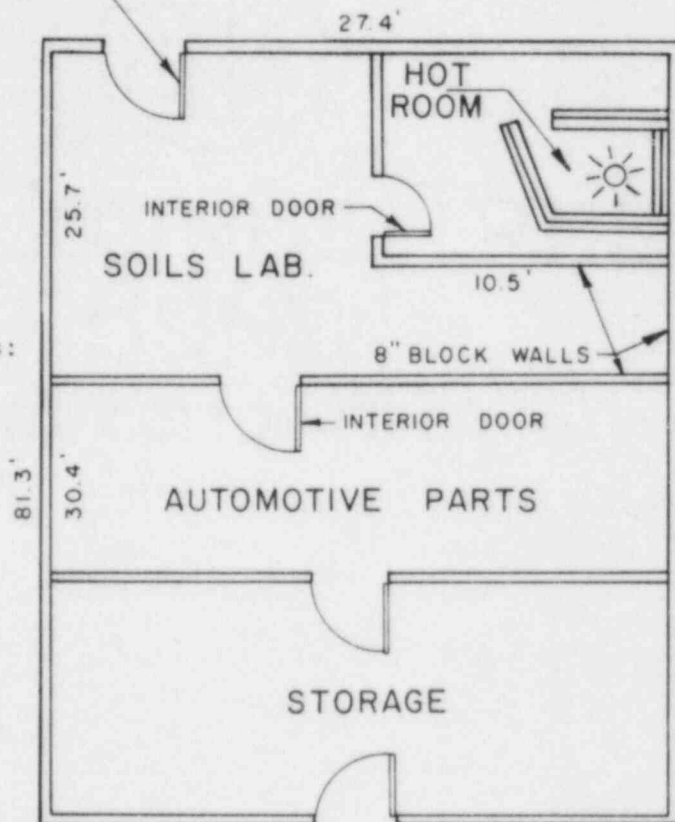
1. Operators Log - Each time an operator uses the machine, he or she must log in time in & out, plus destinations.
2. Emergencies - Three sets of keys will be available for emergencies. (fire, inclement weather, etc.)

Each Nuclear Machine operator will have a set, plus a third set available at the Main Building.

Key Set - includes Exterior Steel Door & Lock on Chain



EXTERIOR
STEEL DOOR



The following is a layout of the facilities:

Exterior Steel Door

Having at least an 8"x10" (yellow & red) sign reading "Caution Radiation Area" with insignia, plus names & addresses & phone of Radiation Officer and his stand-by in case of Emergency.

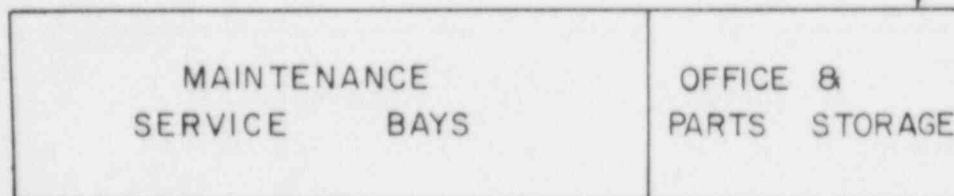
Interior Doors (marked on diagram)

Will contain the following information:

1. 8"x10" Radiation Insignia
2. Fed. NRC Form 3 (9-84), Employee Notice
3. Ill. Notice to Employees, KLA. 001.01 (5/74)

Hot Room

This room will be our storage for the Density Machine. It will be surrounded by old steel cabinets and locked to a heavy chain which will be imbedded in 8" concrete wall.



MAIN BLDG.