

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, DISTRICT OF COLUMBIA, DISTRICT OF 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 45-13691-01
Amendments 5 and 6

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

U.S. Department of Transportation
Federal Highway Administration
Eastern Direct Federal Division
1000 North Glebe Road
Arlington, Virginia 22201

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

1000 N. Glebe Road
Arlington, Virginia 22201

112 Industrial Park
Sevierville, Tennessee 37862

Temporary job sites throughout the United States and Puerto Rico.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

William G. Bartenstein

TELEPHONE NUMBER

703/557-0960

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.

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

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

FEE CATEGORY N/A AMOUNT ENCLOSED \$ N/A

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

William G. Bartenstein William G. Bartenstein Construction Engineer July 10, 1985

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

☐ NO

FOR NRC USE ONLY

TYPE OF FEE: REG 2 LIC 30 FEE CATEGORY: PDR COMMENTS:

8509120219 850828
REG 2 LIC 30
45-13691-01

AMOUNT RECEIVED

APPROVED BY

DATE

FEE EXEMPT

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

Additions, Deletions, Changes to NRC License No. 45-12691-01
Amendments 5 and 6 for DOT, FHWA, Eastern Direct Federal Division
July 1985

I. Reference Numbers refer to NRC, Form 313.

5. Radioactive Material - No Change.
6. Purpose for which licensed material will be used - No Change.
7. Individual responsible for radiation safety program and their training and experience.

Revision to July 23, 1980, memo to substitute Mr. Herbert A. Nichols for Mr. Ralph A. Hooper. His training and experience is given on the attached sheet.

8. Training for individuals working in or frequenting restricted areas:

Attached are updated lists of personnel who will use or directly supervise the use of licensed material, and who have been trained in the use of nuclear testing equipment by a qualified instructor of the manufacturer. These lists replace those attached to our May 30, 1980 application.

9. Facilities and Equipment. Updated drawings for storage locations to supplement May 1980 application.
 - A) Revised drawing for Sevierville, Tennessee, Location.
 - B) Redrawn drawing for Arlington, Virginia, location.
10. Radiation Safety Program. Address change of film badge monitor. National Bureau of Standards, Health-Physics Laboratory, now located at Gaithersburg, Maryland.
11. Waste Management: No waste generated. Any gauges surplus are transferred to a licensee specifically authorized to possess it.
12. License Fee: U.S. Government agency - Not Applicable.

NUCLEAR MATERIAL LICENSE
RENEWAL APPLICATION JULY 1985
LICENSE NO. 45-13691-01

Herbert A. Nichols

Radiation Safety Protection Officer
DOT, FHWA, EDFD
July 1985

Began use of Nuclear Moisture-Density Gauges in 1970. Attended a training session at Troxler Electronic Lab conducted by Troxler Lab personnel in field repair and safety, 8 hours. This was in-house instruction, no formal record was made.

October 1975 - Completed course for use of Nuclear Testing Equipment conducted by Mr. Harvey Dunlevy of Troxler Electronic Laboratories, Inc. at Arlington, Virginia, in use and safety of nuclear testing equipment, 8 hours.

August 1977 - Completed course in use and safety conducted by Pat Campbell of Campbell Pacific Nuclear Corporation at Pacheco, California, 8 hours. Also completed 8 hours of training in field repair and calibration conducted by Campbell Pacific personnel in their lab at Pacheco, California.

Conducted a training school in Sevierville, Tennessee, in January 1979 for field personnel in safety and use of nuclear equipment along with a test which was certified by Campbell Pacific.

He has handled all the field repair of the gauge along with the wipe tests and supervised others. This work has been done over 15 years, and at the present time his lifetime accumulation is 0.900 rems with allowable lifetime accumulation of 220,000 rems and in no quarter has received an excess dosage.

He also maintains files on gauge location, records of wipe tests, and files on personnel radiation dosage accumulation.

NUCLEAR MATERIAL LICENSE
RENEWAL APPLICATION JULY 1985
LICENSE NO. 45-13691-01

Revision to Item 6 of Renewal
Application dated May 30, 1980

6. Individual(s) who will use or directly supervise the use of licensed material:

Stewart R. Spelman, Division Materials Engineer
Brian G. Robbins, Project Engineer
James C. Zimmerman, Senior Project Engineer
Gary L. Brown, Construction Operations Engineer
Roy W. Bigelow, Project Engineer
Don E. Shores, Project Engineer
Richard L. Stein, Field Materials Technician
William S. Cross, Contract Administration Engineer
William G. Bartenstein, Construction Engineer
Herbert A. Nichols, Field Materials Technician
Raymond A. Oakley, Project Engineer
Arthur F. Rodier, Assistant Project Engineer
S. E. Kealhofer, Senior Project Engineer
Mark R. Clabaugh, Structural Engineer
Bob G. Britton, Senior Project Engineer
Ben King, Project Engineer
Warren K. Lutz, Highway Engineer
Terry D. Halkyard, Structural Engineer
John S. Harrell, Civil Engineering Technician
Fred Faridazar, Structural Engineer
Charles W. Burke, Project Engineer
Kirk Davis, Civil Engineering Technician
Paul Clabo, Materials Engineering Technician

NUCLEAR MATERIAL LICENSE
RENEWAL APPLICATION JULY 1985
License No. 45-13691-01

Revision to Item No. 16 of Renewal
Application dated May 30, 1980

The following personnel have successfully completed an 8-hour training course for the use of nuclear testing equipment. The course was given by Troxler Electronics Laboratories, Inc.:

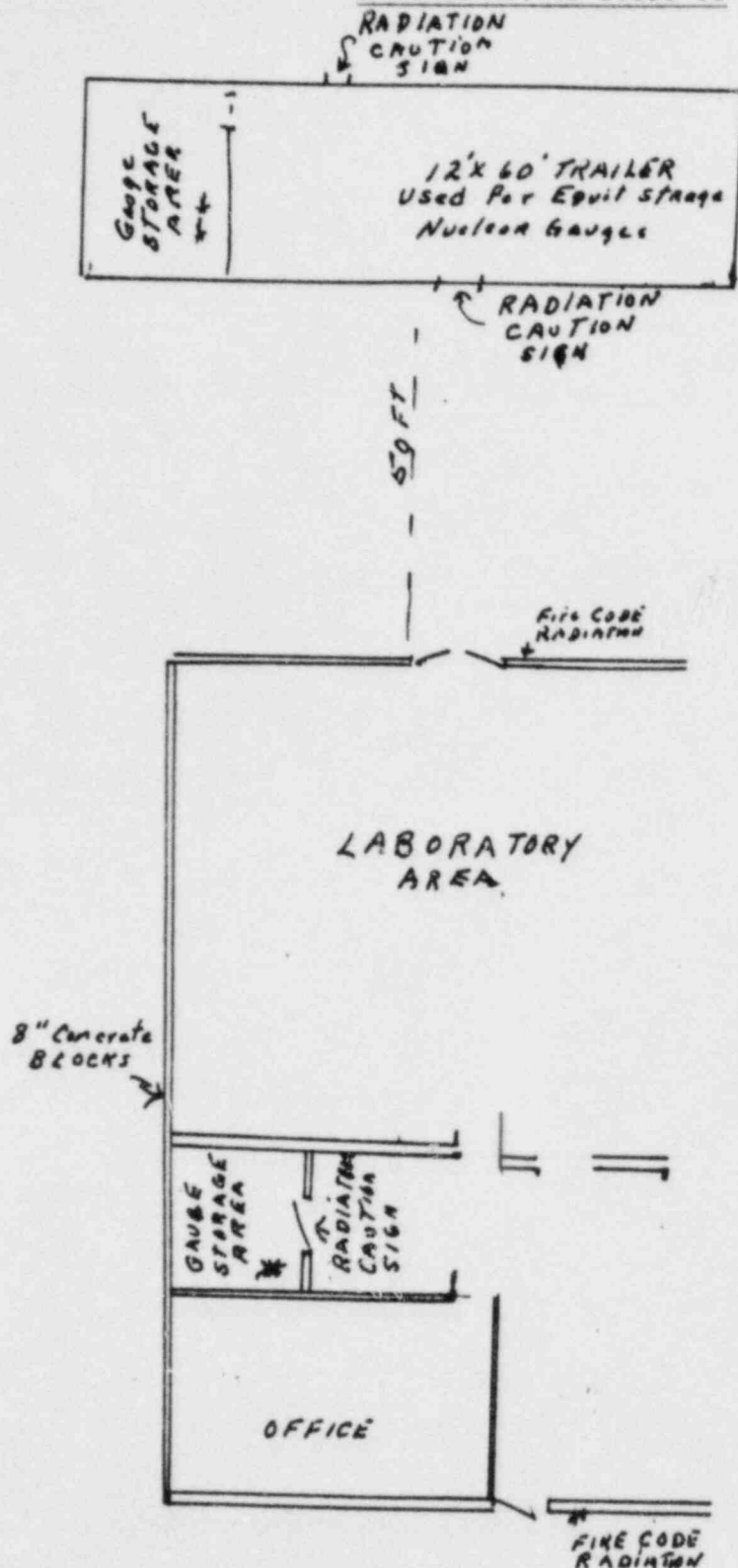
<u>Name</u>	<u>Date</u>
Gary L. Brown	October 10, 1975
Brian G. Robbins	October 10, 1975
Richard L. Stein	October 10, 1975 & March 18, 1982
William G. Bartenstein	October 10, 1975
Herbert A. Nichols	October 10, 1975
Raymond A. Oakley	October 10, 1975
Arthur F. Rodier	October 10, 1975
S. E. Kealhofer	October 10, 1975
Terry D. Halkyard	March 18, 1982
John S. Harrell	March 18, 1982
Fred Faridazar	March 18, 1982
Charles W. Burke	March 18, 1982
Stewart R. Spelman	March 18, 1982
Kirk Davis	March 18, 1982
Paul Clabo	February 18, 1981

The following personnel have successfully completed an 8-hour training course for the use of nuclear testing equipment under the direction of Campbell Nuclear Corporation:

William S. Cross	August 23, 1977
Stewart R. Spelman	August 23, 1977
Herbert A. Nichols	August 10, 1977
Bob G. Britton	January 22, 1979
Ben King	January 22, 1979
Warren K. Lutz	January 22, 1979

NUCLEAR MATERIAL LICENSE
RENEWAL APPLICATION JULY 1985
LICENSE NO. 45-13691-01

4.



- * Moisture Density
- * Gauge (Cesium 137)
- Americium 241
- 8 mci - 40 mci
- 10 mci 50 mci

Note: ALL Doors Locked
To STORAGE AREAS

- * only Asphalt Content
- Gauges (Americium 24)
- 300 mci)

STORAGE ROOM
Sevierville, TN

ADDRESS
FEDERAL HIGHWAY ADMINISTRATION
112 INDUSTRIAL PARK
Sevierville, TN. 37862

NUCLEAR MATERIAL LICENSE
RENEWAL APPLICATION JULY 1985
LICENSE NO. 45-13691-01

