

## 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 C.#02-19418-01

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

Department of the Interior  
Bureau of Indian Affairs  
Route 1, Box 9C  
Parker, Arizona 85344

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

USDI/BIA  
Irrigation Management Services  
Poston, Arizona 85371

**4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION**

Vernon M. Hughes

**TELEPHONE NUMBER**

(602) 669-6121 ext 215

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 1J-renewal AMOUNT  
ENCLOSED \$ 120.00

**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

**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	FEE LOG	FEE CATEGORY	COMMENTS	APPROVED BY
AMOUNT RECEIVED	CHECK NUMBER			DATE

8510230303 850821  
REG5 LIC30  
02-19418-01 PDR

## 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

ATTACHMENTS - APPLICATION FOR MATERIAL LICENSE (RENEWAL)

Item # 5 - Radioactive Material

- A. Radioactive material is Americium 241.
- B. Physical form is in sealed sources (Campbell Pacific Nuclear Corporation Model CPN-131-1).
- C. Maximum amount which will be possessed will be 8 sources of 50 millicuries each.

Item # 6 - Purpose of Licensed Material

Soil moisture measurement is the purpose for which licensed material will be used.

Item # 7 - Individuals Responsible for Radiation Safety Program

The individuals responsible for the radiation safety program are Vernon M. Hughes and Willie L. Fisher, Jr.

Mr. Hughes will function as Radiation Safety Officer. He holds a Bachelor of Science Degree from Utah State University, 1952. He has 20 years of military service in USAF Civil Engineering and 15 years in various engineering work with the Federal Service. The last ten years with the Colorado River Irrigation Project, Bureau of Indian Affairs. During military service, he attended courses in radiation protection for fall-out shelter design and analysis, nuclear accident safety and clean-up operations. He has attended two technical training courses presented by Campbell Pacific Nuclear Corporation. His on the job experience using nuclear probes for soil density, water strato in wells and soil moisture has been intermittent for the last ten years.

Mr. Fisher is the Lead Soil Conservation Technician with the BIA Land Operations division on the Colorado River Indian Reservation. He has 9 years of Federal Service. Mr. Fisher has attended 8 technical training courses, presented by Campbell Pacific Nuclear Corporation and by Arnold S. Dransfield, previous Radiation Safety Officer for the USBR Irrigation Management Services Branch. These courses covered radiation safety and operation of depth and density gauges, which have radiation sources of less than 100 millicuries each. His on the job experience using these instruments has been continuous since November, 1976.

Item # 8 - Training for Individuals

On the job training in operation, care and safety of the gauge is provided to each employee before a gauge is released to them for routine use. A CPN operating manual is given to each individual to study. The material is discussed with the supervisor if the Radiation Safety Officer is unavailable. A CPN test is administered with a review of test questions afterward by the employee and his supervisor to assure understanding of the material. Each individual is enrolled in an approved nuclear safety course on a yearly basis.

Item # 9 - Facilities and Equipment

There is no remote handling of the equipment. The equipment is stored in a cabinet, under lock and key, in a storeroom with restricted access. The storeroom and cabinet are clearly marked with radiation warning signs.

ATTACHMENTS - (continued)

Item # 10 - Radiation Safety Program

All operators are monitored monthly by individually assigned radiation detection badges.

Leak testing will be done by a trained employee under the direction of the Radiation Safety Officer at intervals not to exceed 12 months. Prescribed techniques suggested by the gauge manufacturer and the testing laboratory will be followed.

All repairs and service maintenance of the probe other than electrical will be done by the manufacturer.

Transportation of the gauges will be in their own factory designed carrying cases which will be securely mounted in the back of a pickup truck or other suitable vehicles. The instrument box will be clearly marked with radiation warning signs. Use and handling of the gauges will be in accordance with recommended safety instructions from the Nuclear Regulatory Commission, the manufacturer and safety training courses planned for each user.

Item # 11 - Waste Management

There is no waste management program. If it is deemed necessary to dispose of our sources, the Campbell Pacific Nuclear Corporation (manufacturer) and the Nuclear Regulatory Commission will be contacted for further instructions.

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