

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 8
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)

P. O. Box 787 030-28656
Upton, WY 82730
LXL 23177

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

Used at temporary job site locations; stored at Goodwell, Inc. facility on
East Highway 16, Upton, WY 82730

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Craig Bullard 307-468-2407 or Keith Moon, Consultant

TELEPHONE NUMBER

(817) 893-2088

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

8507240338 850625
REG4 LIC30
49-23177-01 PDR

10. RADIATION SAFETY PROGRAM

11. WASTE MANAGEMENT

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

FEE CATEGORY 5 AMOUNT
ENCLOSED \$700.00

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, 82 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

Craig E Bullard

TYPE/PRINTED NAME

Craig E. Bullard

TITLE

Part Owner

DATE

4-5-85

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

15. WOULD YOU BE WILLING TO FURNISH COST INFORMATION (During and/or off 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. 4th

FEE CATEGORY
5A

COMMENTS

AMOUNT RECEIVED

\$700

CHECK NUMBER

168

DATE

5/2/85

APPROVED BY

Francis Brown

DATE

5/2/85

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

SUPPLEMENT TO NRC FORM 313 - APPLICATION FOR MATERIAL LICENSE

B & B PERFORATORS
P. O. BOX 787
UPTON, WY 82730

5. Radioactive Material

Americium 241	Sealed sources. Monsanto Research Corp. ✓ Model MRC-N-SS-W-AmBe; ✓ Gamma Ind. Model NB(HP); <i>300/12.1</i> <i>300/102</i> ✓ Gulf Nuclear 71-1; or ✓ Gammatron AN-HP. <i>300/102</i>	Not to exceed 3 Curies each.
Cesium 137	Sealed sources. ✓ Gamma Ind. Model VD(HP) <i>500/100</i> or Gulf Nuclear <i>550/100</i> Model CSV.	1 source of 125 mCi; 1 source not to exceed 2 Curies.

6. Purposes of Use

Sealed sources will be used for oil and gas well logging.

7. Individual Responsible

Craig Bullard is our Radiation Protection Officer. His resume and proof of training are attached. He is the only radiation handler at this time.

8. Training for Individuals

We enclose herewith a radiation safety training manual which gives basic fundamentals of radiation. Page 1 of the manual outlines our training program for individuals to be designated as radiation handlers by the Radiation Protection Officer. The training will be by an approved instructor, such as Keith Moon of Support Consultants and Associates, Inc., giving his radiation safety training course for well loggers. The manual will serve as our basis for annual review and to inform ancillary employees of the possible radiation exposure and hazard.

Not 24h handler

9. Facilities and Equipment

A sketch of our facility is included in the Operating and Emergency Procedures section of the enclosed manual (Fig. #4). We will use well logging tools manufactured by Gearhart Ind. and Comprobe, Inc. which are designed to carry source assemblies. We will use handling tools designed to be used with the source assemblies. Source assemblies will be transported in DOT 7A storage containers designed for the particular source being carried. (See representative sketches in back of manual.) We will use G.E. Smith or Eberline survey meters capable of detecting gamma radiation, with a range of 0-500 mr/hr. Meters will be calibrated at six months intervals.

10. Radiation Safety Program

Our radiation safety program is outlined in the enclosed Operating and Emergency Procedures (Section 2 of the enclosed manual). Our TLD badges with neutron capabilities will be provided by ICN Dosimetry Service on a monthly exchange basis. Our survey meters will be calibrated every six months by a company licensed by the NRC or Agreement State to provide this service.

11. Waste Management

We will have only sealed sources, therefore there will be no radioactive waste. Sealed sources will be returned to the manufacturer for disposal, or transferred to a licensee authorized to possess said source.

460611

R E S U M E

MARCH 1985

CRAIG BULLARD

1150 Division Street
Upton, Wyoming 82730
(307) 468-9242

Date of Birth: May 27, 1959

Social Security No.: 503-76-0659

Experience:

1978 - 1981 Employed by Goodwell, Inc., mineral division. Involved in uranium and coal exploration in Wyoming, Montana, and North Dakota. Utilized 125 mCi Cesium and 1 Curie AmBe sources in recording density and neutron logs.

1981 - 1985 Employed by Goodwell, Inc., Upton, WY oilfield division. Involved in the logging and completion of oil and water wells. Utilized 125 mCi Cesium, 3 Curie Cesium, and 2 Curie AmBe sealed sources. Received on-the-job training under supervision in the use, care handling and transportation of radioactive sources and oil well explosives.

Present Partner in B & B Perforators, Upton, WY. Operator of well logging equipment and handler of radioactive sources. Also, Radiation Protection Officer.

Radiation Safety Training:

Completed Alfred E. Caswell's Radiological Safety course in March 1979. (see letter confirming training)

March 19th, 1979

To whom it may concern:

Messrs. Tim Bickett, John Bullard, Joel Galvan, Terry McCalla and Craig Bullard of Goodwell, Inc. have successfully completed my course in Radiological Safety. The course was held on March 10th and 11th, 1979 in the offices of Goodwell, Inc. in Upton, Wyoming. The course covered the principles and practices of radiation protection; radioactivity measurement standardization and monitoring techniques and instruments; mathematics and calculations basic to the use and measurement of radioactivity and the biological effects of radiation. Copies of their final tests along with a copy of the course outline are enclosed.

The course was given by the undersigned. My qualifications include over twenty years of active participation in the field of Health Physics; completion of the Basic and Advanced Health Physics Courses given by the U. S. Public Health Service, Cincinnati, Ohio, and the teaching of some forty short courses in Radiological Safety as it applies to oil and mineral logging. I served as the Radiological Safety Officer for Well Surveys, Inc., Tulsa, Oklahoma; the Lane Wells Co. (now Dresser Atlas), Houston, Texas; General Nuclear Inc., Houston, Texas and SIE, Inc., Fort Worth, Texas. I also have a BS Degree in chemistry and mathematics.

I consider Messrs. Bickett, John and Craig Bullard, Galvan and McCalla qualified to work with the radioactive sources that they will be concerned with during their employment by Goodwell.

Very truly yours,

Alfred E. Caswell
Alfred E. Caswell

Alfred E. Caswell
Health Physicist
10302 No. Rockwell
Oklahoma City, Okla. 73132

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