

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)

DENEX Corporation
3 Woodland Cove
Given, W. Va. 25245

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

At address listed in Item 2 and at temporary job sites throughout 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

Eric G. Denemark, President

TELEPHONE NUMBER

(304) 372-4020

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

8507100177 850531
REG2 LIC30
47-23084-01 PDR

10. RADIATION SAFETY PROGRAM.

11. WASTE MAN.

12. LICENSEE FEES (See 10 CFR 170 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, 1949, 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

Eric G. Denemark

Eric G. Denemark

President

5-22-85

14. VOLUNTARY ECONOMIC DATA

a. ANNUAL RECEIPTS

< \$250K	\$1M - 1.5M
\$250K - 500K	\$1.5M - 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 cost 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

APPL.

May 4th

3P

AMOUNT RECEIVED

CHECK NUMBER

\$230

1417

APPROVED BY

Frances Brown

DATE

6/4/85

APPLICATION FOR MATERIAL LICENSE - NRC FORM 313

ITEMS 5 THROUGH 11

Item 5.

a. Radionuclei	b. Form	c. Troxler Drawing No.	d. Maximum Amount
1. Cs-137	Special Form	A-102112	Not to exceed 9 mCi per source.
2. Am-241:Be	Special Form	A-102451	Not to exceed 44 mCi per source.

Item 6.

Licensed material will be used in a Troxler Model 3411-B Surface Moisture/Density Gauge.

Item 7.

The individual responsible for our Radiation Safety Program will be the same as the individual listed in Item 4. This individual will be the contact person at our company and act as liaison with the licensing agency. This individual will, as a minimum, attend the Troxler Nuclear Gauge Training Course.

Item 8.

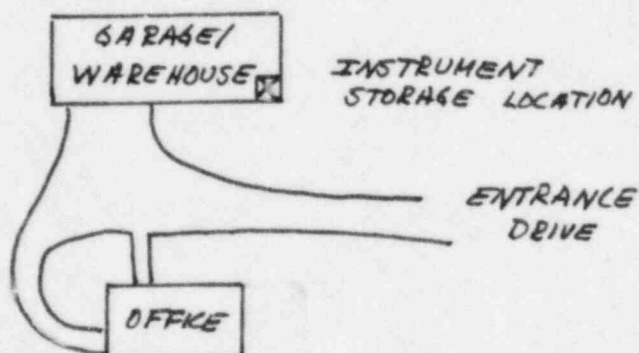
At the present time, it is anticipated that two (2) individuals from our company will be using the Nuclear Density Gauge. They are:

1. Eric G. Denmark, President of the company and safety officer as specified in Items 4 and 7, and,
2. Jim Spano, Geo-technical technician.

Both these individuals will have completed the Troxler training course prior to using the gauge. Additionally, other employees who have completed the Troxler course may use the gauge. The Safety Officer, as specified in Items 4 and 7, will keep on file the Training Certificate of each individual. Each new user will be trained in our Operating and Emergency Procedures.

Item 9.

A sketch of our facility where we plan to store our Nuclear Density Gauge is shown below.



Not To Scale

The vehicle garage/warehouse building is of concrete block construction with poured concrete floor. It is used for the storage of vehicles, equipment and supplies and is unoccupied. This building is 75 feet from the structure which houses our offices. We plan to store the Nuclear Density Gauge in a special locked box, attached to the wall and/or floor of the garage building. Additionally, this building is kept locked at all times and has an intrusion alarm system installed. The keys to this building and lock box will remain in the possession of the Safety Officer as designated in Item 7.

Item 10.

Our Radiation Safety Program will consist of the following written instructions from the Radiation Safety Officer to all users of the Nuclear Density Gauge concerning the safe handling, storage and use of the Gauge. These instructions will be given to each employee handling the gauge prior to his use thereof and will be reviewed quarterly. Additionally, these Radiation Safety Procedures will be made part of company policy.

RADIATION SAFETY PROCEDURES

1. Radiation Safety Officer

A. Eric G. Denmark 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 who have been authorized by the Radiation Safety Officer and that all users wear personnel monitoring equipment when utilizing the Nuclear Density Gauge.
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.

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 transported in an enclosed vehicle (car or van), the vehicle will be locked. When transported in an open bed vehicle, the guage will be securely fastened and locked to the bed of the truck.
2. The guage will be transported in the TROXLER transportation case. The U. S. Department of Transportation requires that the guage be transported in a properly labeled carrying case.
3. At all times during transport, the operator will have a properly completed Bill of Lading for each guage.

B. Utilization Procedures

1. When the guage is in the field, the operator will maintain control over the guage at all times. The guage will never be left unattended.
2. When not in use, the guage will be placed in the transportation case and returned to its permanent storage area as soon as possible. The guage shall be used for its intended purpose only. By so doing, radiation exposure will be kept as low as reasonably attainable.
3. When the equipment is in use, each operator will wear the personnel monitoring device that has been assigned to him or her. When the equipment is not in use, each personnel monitoring device is to be stored in the radiation free area that has been designated in the office.
4. The personnel monitoring devices referred to herein will be ThermoLuminescent Dosimeters (TLD's) obtained from R. S. Landauer Jr. & Company. The exchange frequency will be quarterly.

C. Maintenance and Leak Test Procedures

1. Periodic maintenance will include cleaning the guage. During any maintenance, personnel monitoring devices must be worn.
2. The source tube will be cleaned in accordance with Troxler's instructions as provided in their training. Any maintenance involving the removal of the radioactive source will be performed by 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 worn. Guages will be leak tested at intervals not to exceed six (6) months.

3. Emergency Procedures

- A. In the event of physical damage to a guage, the following will be performed:

1. An area of fifteen (15) feet radius will immediately be cordoned off around the guage.
2. If a vehicle is involved, it will be taken out of service until the extent of contamination, if any, can be established.
3. A visual inspection of the guage will 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, the Radiation Safety Officer, Eric G. Denemark, must be contacted at (304) 372-4020. The present conditions should be described and the instructions of the Radiation Safety Officer followed.

B. In the event the guage is lost or stolen, the Radiation Safety Officer as designated in Item 3.A.4 will be notified immediately.

Item 11.

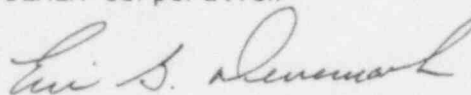
In the event that disposal of our Nuclear Density Guage is necessary we will do so in only one of the following three ways:

1. By transfer to another licensed user.
2. By transfer to a licensed burial ground.
3. By transfer back to the manufacturer.

Date: May 22, 1985

Respectfully Submitted,

DENEX Corporation



Eric G. Denemark
President