NRC FORM 313
(1-84)
10 CFR 30, 32, 33, 34, 35 and 40

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED BY OMB
3150-0120
Expires: 5-31-87

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

RECEIVED FEB 14 1989

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)*

- [X] A. NEW LICENSE
- [ ] B. AMENDMENT TO LICENSE NUMBER _____
- [ ] C. RENEWAL OF LICENSE NUMBER _____

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

Sanders Gravel & Excavating Inc.
Box 96
Pine Bluffs WY 82082

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

Sanders Gravel & Excavating Inc
1069 Rd 161
Pine Bluffs WY 82082 (near city airport) And Temporary Jobsite locations in Non-Agreement Sta

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Mark Sanders

TELEPHONE NUMBER: 307-245-3426

SUBMIT ITEMS 5 THROUGH 11 ON 8½ 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: 3P
AMOUNT ENCLOSED $: 230

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
Mark A. Sanders	MARK A. SANDERS	Vice President	2-7-89

14. VOLUNTARY ECONOMIC DATA

a. ANNUAL RECEIPTS
- [ ] <$250K
- [ ] $250K–500K
- [ ] $500K–750K
- [✓] $750K–1M
- [ ] $1M–3.5M
- [ ] $3.5M–7M
- [ ] $7M–10M
- [ ] >$10M

b. NUMBER OF EMPLOYEES *(Total for entire facility excluding outside contractors)*: 10

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
Apy	Feb-4-IV	3P	8903200512 890306 REG4 LIC30 49-26980-01 PNU	46242
AMOUNT RECEIVED: $230	CHECK NUMBER: 15296			DATE: 2/16/89

PRIVACY ACT STATEMENT ON THE REVERSE

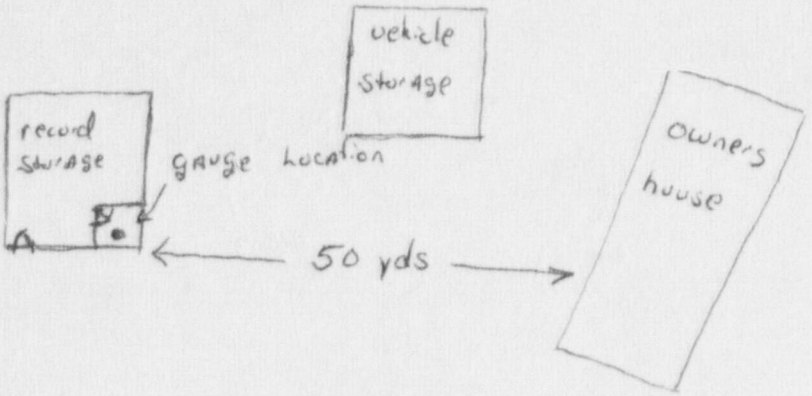
5. Radioisotope	Form	Troxler drawing	Maximum Amt.
A. Cs-137	Special form	A-102112	Not to exceed 9mci per source
B. Am241:be	Special form	A-102451	Not to exceed 44mci per source

6. The material is to be used in a troxler model 3400 series portable measuring gauge

7. Mark Sanders has been designated as the company radiation safety officer A copy of his Troxler nuclear gauge training certificate is attached for your review. The duties of the radiation safety officer are specified in item 10.

8. Each individual that will operate the nuclear gauge will complete the Troxler nuclear gauge training course, read and understand our radiation safety procedures; and be approved by our radiation safety officer. Copies of each individuals training certificate will be maintained on file.

9.The following is a drawing of our storage facility. The only people possesing keys will be the President and Vice-President of the company.



Equipment:

Personnel Monitoring: Troxler Radiation monitoring services
Division of Troxler Electronic laboratories, Inc.
P. O. box 12057
Research triangle park North Carolina 27709

Type: Thermoluminescent Dosimeter (tld)
Exchange frequency Quarterly

10.

1. Radiation safety officer

A. Mark Sanders 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 manufacturer.

3. To ensure that the use of equipment is only by authorized individuals and that all users wear personnel monitoring equipment when utilizing the equipment. Personnel monitoring equipment will consist of TLDs supplied by Troxler Radiation Monitoring Services on a quarterly exchange period.

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 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 proper authorities in case of emergency.

7. To ensure that all users have read and understood 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 secured in the transporting vehicle and the equipment is away from the passenger compartment. When transporting in an enclosed vehicle, the vehicle will be locked. When transporting in an open vehicle the gauge should be securely locked to the truck bed.

2. The gauge will be transported in the Troxler transportation case. Department of Transportation requires that the gauge 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 gauge.

B. Utilization Procedures

1. When the gauge is in the field, you as the authourized user must maintain control over the gauge at all times. The gauge must never be left unattended.

2. When not making measurments, the gauge should be placed in the transportation case and returned to its permeanent storage area as soon as possible. This gauge is to be used for its intended purpose only. By doing so you will maintain any radiation exposure to as low as reasonably attainable.

3. When using the equipment, you will wear the personnel monitoring device that has been assigned to you. When you are not using the equipment your monitoring device is to be stored in a radiation free area that has been designated in the office.

C. Maintenance and leak test procedures

1. Periodic maintenance will include cleaning the gauge. During any maintenance you will wear your personnel monitoring device. Accepted cleaning and lubrication procedures developed by the manufacturer will be followed.

2. No maintenance will be performed in which the radioactive source is removed from the gauge. For this type of maintenance the gauge will be returned to 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 manufacturers instructions. Again the personnel monitoring devices will be used. The guages will be leak tested at intervals not to exceed 6 months.

3. Emergency procedures

A. In the event of physical damage to the gauge, the following will be performed.

1. Immediately cordon off an area around the gauge. An area radius of 15 feet will be sufficent.

2. If a vehicle is involved, it must be stopped until the extent of contamination, if any can be determined.

3. A visual inspection of the gauge is to 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 you must contact Mark Sanders at 307-245-3426 Describe present conditions and follow the directions of the radiation safety officer.

B. In the event the gauge is lost or stolen, Immediately notify the radiation safety officer as listed in 3.A.4.

11. Disposal of the gauge will be by transfer to another facility specifically licensed for the material; or returned to the gauge manufacturer. Records of transfers will be maintained on file.

TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

Mark Sanders

of

Sanders Gravel & Excavating, Inc.

HAS SUCCESSFULLY COMPLETED THE TROXLER ELECTRONIC LABORATORIES, INC. TRAINING COURSE FOR THE USE OF NUCLEAR TESTING EQUIPMENT.

SUBJECTS INCLUDED IN THIS COURSE WERE AS FOLLOWS:

Radiological Safety

1. *Principles and practices of radiation protection.*
2. *Leak testing procedures.*
3. *Mathematics and calculations basic to the use and measurement of radioactivity.*
4. *Biological effects of radiation.*
5. *Radioactivity measurement standardization and monitoring techniques and instruments.*
6. *Accident and incident procedures.*
7. *Procedures for nuclear gauge storage and transportation.*
8. *General safety precautions.*

Gauge Operation

1. *Instrument theory*
2. *Operating procedures*
3. *Maintenance*
4. *Field application*
5. *Gauge calibration*

Hemant Sayyani
INSTRUCTOR

02-03-89
DATE

W.F. Troxler
PRESIDENT

Nº 21493

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