

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.

APPLICATIONS FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS
WASHINGTON, DC 20566

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS. IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I
NUCLEAR MATERIALS SAFETY 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
NUCLEAR MATERIALS SAFETY 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 73011

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
NUCLEAR MATERIALS SAFETY SECTION
1460 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 37-23445-01
 C. RENEWAL OF LICENSE NUMBER _____

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

The General Crushed Stone Co.
P. O. Box 231 - Sullivan Trail
Easton, PA 18042

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

The General Crushed Stone Co.
Rock Hill Road
Sellersville, PA 18960

Also, at temporary jobsites where the U. S. Nuclear Regulatory Commission maintains the jurisdiction over the use of by-product material.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Vernon R. Snyder, Safety Director/Environmental Engineer

TELEPHONE NUMBER

(215) 253-4271

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. See Attached

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED. See Attached

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE. Bernard McDonald

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS. See Attached

9. FACILITIES AND EQUIPMENT. See Attached Sketch

10. RADIATION SAFETY PROGRAM. See Attached

11. WASTE MANAGEMENT. Return gauge to Troxler Electronic Labs., Inc.

12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)
FEE CATEGORY 3P AMOUNT ENCLOSED \$60.00

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

Vernon R. Snyder Vernon R. Snyder

Safety Director and
Environmental Engineer 5/23/88

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	COMMENTS	APPROVED BY
AMD	Jun. 1 st	3P	8904260470 BB0609 REG1 LIC30 37-23445-01 PNU	<u>S. Kimberly</u>
AMOUNT RECEIVED	CHECK NUMBER			DATE
\$ 60	290404			6/1/88

"OFFICIAL RECORD COPY" ML10

108910

TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

BERNARD MCDONALD

of

GENERAL CRUSHED STONE

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

Michael E. Nunley

INSTRUCTOR

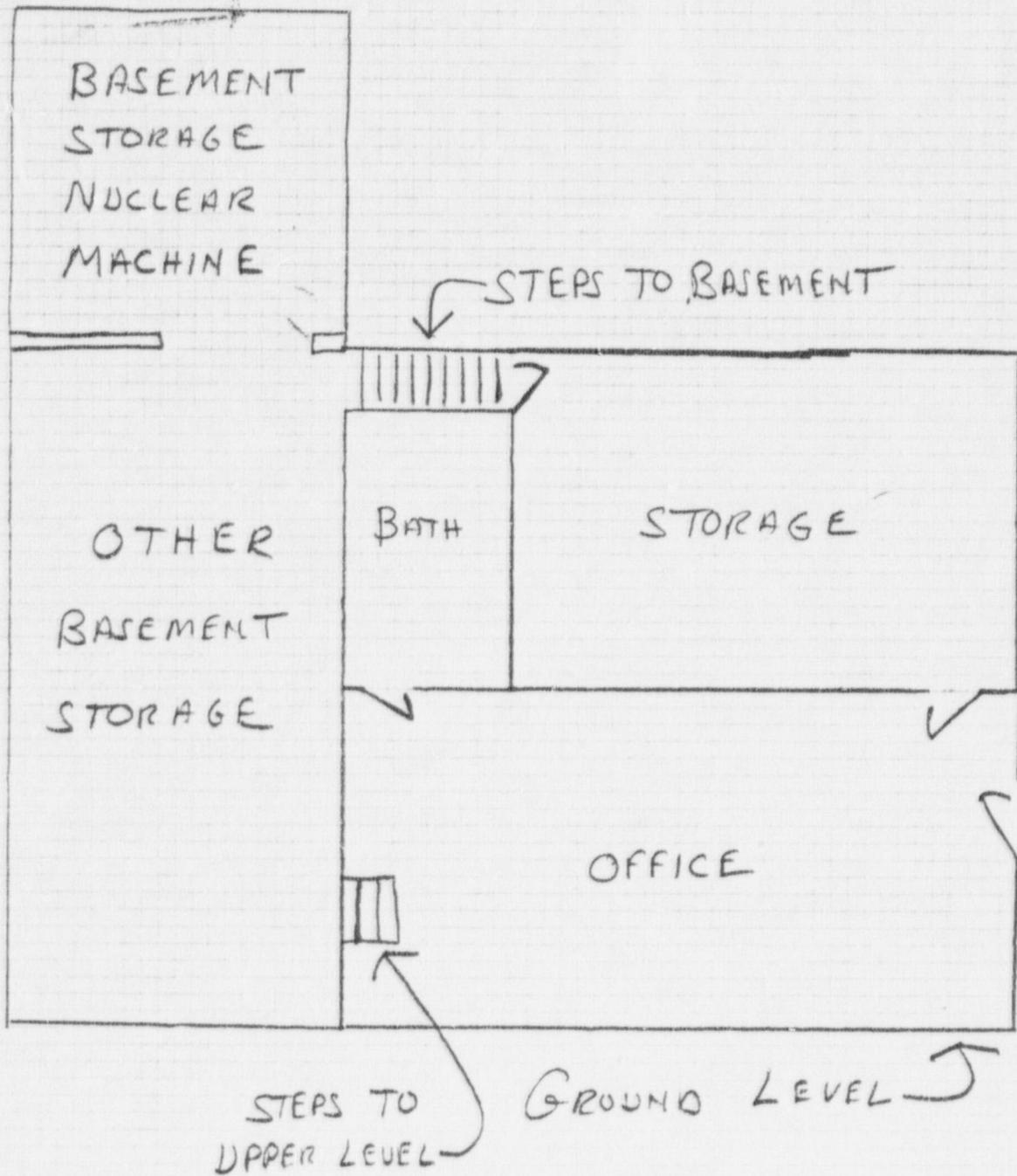
05/03/88

DATE

No 22975

W. F. Troxler

PRESIDENT



Persons who has keys are Warren Nerz, Joseph Bronico, Gary Taylor & Rich Frank.

Distance to the nearest occupied area would be 8 vertical feet. (Basement to 1st floor.)

Radiation Safety Program

RADIATION SAFETY OFFICER

A. (Name of individual listed in item 7) 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 every six (6) months 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 that have been authorized by the Radiation Safety Officer and that all users wear personnel monitoring badges when utilizing the equipment.
4. To maintain the records as required by the Nuclear Regulatory Commission. These records shall include personnel quarterly exposure records, leak test reports and training certificates for all operators.
5. To insure that the equipment is properly secured against unauthorized removal at all times, especially when it is not in use. The RSO will have the keys to the gauge's storage room only.
6. To serve as a point of contact and give assistance in case an emergency such as damaged equipment or theft. At that point the NRC and Troxler Electronics will be notified.
7. To insure that all users have read and understand the radiation safety operating and emergency procedures as directed by the Radiation Safety Officer and Troxler Electronics.
8. To post "Caution Radioactive Material" on the storage location, along with NRC Form #3 "Notice to Employees" nearby in a visible area.
9. To conduct a written six (6) month inventory of all nuclear gauges, and kept on file for inspection.

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 when transporting in an enclosed vehicle, keep the gauge in the trunk or rear compartment area so as to limit the exposure rate to a minimum. The vehicle will also be locked at all times. When transporting in an open bed vehicle, the gauge should be securely fastened and locked to the truck bed.

2. The gauge will be transported in the Troxler transportation case. The U.S. Department of Transportation requires that the gauge be transported in a properly labeled carrying case. A copy of the U.S. D.O.T. transport package certification will be kept with the transporter.

3. At all times during transport, the transporter (operator) will also have a properly completed Bill of Lading for each gauge, Source Certificate, Personal ID. and a copy of the Transport Package Certification.

B. Utilization Procedures:

1. A utilization log book will be used to control the gauges whereabouts at all times - signing it out and back in when returning from the field.

2. When the gauge is in the field, we will maintain control over the gauge at all times. The gauge will never be left unattended, as this type of negligence has led to stolen or damaged equipment.

3. When not making measurements, the gauge will be placed in the transportation case and returned to its permanent storage area as soon as possible. The gauge will be properly used as directed by Troxler Electronics. This will maintain any radiation exposure below the acceptable limits. When recharging the gauge, it will be kept in the locked storage room.

4. When using the equipment, we will wear ^{Troxler Electronics Laboratories} ~~Eberline-Analyt.~~ TLD badge that has been assigned to the specific operator. These badges will monitor both gamma and neutron radiation with quarterly exchange frequency and reports examined for unusually high dosages. Proper measures will be taken to correct this type of situation.

C. MAINTENANCE and LEAK TEST PROCEDURES

1. Periodic maintenance will include cleaning the gauge, at which point TLD badges will be worn.

2. No maintenance will be performed in which the radioactive source is removed from the gauge. Troxler Electronics will conduct source removal procedures only.

3. Leak tests will be done every 6 months using the Troxler Model 3880 kit, following the instructions as outlined within the kit. TLD badges will be worn.
EMERGENCY PROCEDURES

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

1. Immediately cordon off an area around the gauge of at least 15 feet.
2. If a vehicle is involved, it will be stopped until the extent of contamination, if any, can be established.
3. A visual inspection of the gauge 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, we will contact our Radiation Safety Officer at (phone #). We will describe the present conditions and follow his instructions.

B. In the event the gauge is lost or stolen, we will immediately notify the RSO, who in turn will contact the NRC and Troxler Electronics.

A COPY OF THIS RADIATION SAFETY PROGRAM WILL BE KEPT WITH THE GAUGE AT ALL TIMES FOR REFERENCE WHEN NEEDED.

Item 5

By Product, source and/or special nuclear material

Cesium 137

Form

Special

Troxler Drawing

A-102112

Maximum Amount

Not to exceed 9 millicuries per source

Item 6

For use in Troxler Model 4640 Thin Layer Gauge for measurement of material density.

Item 8

Gauge to be used by and/or under the supervision of Bernard McDonald. (Certificate for completion of Troxler Training Course Attached)

Item 9

Sketch of Rock Hill Construction Office and basement storage area attached.

Item 10

See Attached "Radiation Safety Program"

(FOR LFMS USE)
INFORMATION FROM LTS

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

PROGRAM CODE: 03121
STATUS CODE: 0
FEE CATEGORY: 3P
EXP. DATE: 19890731
FEE COMMENTS:

LICENSE FEE TRANSMITTAL

EXPEDITE

A. REGION

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: GENERAL CRUSHED STONE COMPANY
RECEIVED DATE: 880525
DOCKET NO.: 3021088
CONTROL NO.: 108940
LICENSE NO.: 37-23445-01
ACTION TYPE: AMENDMENT

2. FEE ATTACHED

AMOUNT: 60.00
CHECK NO.: 290404

3. COMMENTS

Verbal OK from Glenda on
5/25/88. Put in your 03+07.

SIGNED BP
DATE 5/25

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED 1-1)

1. FEE CATEGORY AND AMOUNT: 3P 860

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:

AMENDMENT
RENEWAL
LICENSE

3. OTHER

SIGNED S. Kimberley
DATE 6/1/88

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 190 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee			
1. General Crushed Stone Co.		3. License number	37-23445-01
2. P. O. Box 3513 Williamsport, Pennsylvania 17701		4. Expiration date	July 31, 1989
		5. Docket or Reference No.	030-21088
6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license	
A. Cesium 137	A. Sealed source (Troxler Dwg. A-102112)	A. Not to exceed 9 millicuries per source	
B. Americium 241	B. Sealed source (Troxler Dwg. A-102451)	B. Not to exceed 44 millicuries per source	
9. Authorized use			
A. and B. For use in Troxler Model 3411-B moisture/density gauges to measure properties of construction materials.			

CONDITIONS

10. Licensed material may be used at 3485 West Fourth Street, Williamsport, Pennsylvania, and at temporary job sites of the licensee anywhere in the United States where the U. S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
11. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions, and Reports to Workers; Inspections" and Part 20, "Standards for Protection Against Radiation."
12. Licensed material shall be used by, or under the supervision and in the physical presence of, Glenn Shawl, Roy Lewis, Jr., and individuals who have successfully completed the Troxler training course on the safe use of the portable gauges.

37-23445-01(3)

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

37-23445-01

Docket or Reference number

030-21088

(continued)

CONDITIONS

13. A. (1) Each sealed source containing licensed material, other than Hydrogen 3, with a half-life greater than thirty days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six months. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, a sealed source received from another person shall not be put into use until tested.
- (2) The periodic leak test required by this condition does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested for leakage prior to any use or transfer to another person unless they have been leak tested within six months prior to the date of use or transfer.
- B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission.
- C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the test with the U. S. Nuclear Regulatory Commission, Region I, 631 Park Avenue, King of Prussia, Pennsylvania 19406, describing the equipment involved, the test results, and the corrective action taken.
- D. The licensee is authorized to collect leak test samples in accordance with the procedures described in the licensee's application dated May 30, 1984, and letter dated June 25, 1984, for analysis by Troxler Electronic Laboratories. Alternatively, leak test samples may be collected and/or analyzed by other persons specifically authorized by the Commission or an Agreement State to perform such services.
14. Sealed sources containing licensed material shall not be opened or removed from the portable moisture/density gauges by the licensee.
15. The licensee shall conduct a physical inventory every six (6) months to account for all sealed sources received and possessed under the license. The records of the inventories shall be maintained for two (2) years from the date of the inventory for inspection by the Commission, and shall include the quantities and kinds of licensed material, location of sealed sources and the date of the inventory.
16. The licensee may transport licensed material or deliver licensed material to a carrier for transport in accordance with the provisions of Title 10, Code of Federal Regulations, Part 71, "Packaging of Radioactive Material for Transport and Transportation of Radioactive Material Under Certain Conditions."

