NRC FORM 313 U. S. NUCLEAR REGULATORY	COMMISSION APPROVED BY OMB: NO. 3100-0120 EXPIRES: 7/31/95	
(7-98)	Estimated by the per response to comply with this information collection request. 7 Submittal of the application is necessary to determine that	
10 CFR 30, 32, 33 y 34, 35, 36, 39 and 40	the application of the application is necessary to determine that the application of the and that adequate procedures exist to protect the public health and safety. Forward comments regarding burden estimate to	
	the information and Records Management Branch (T-8 F33), U.S. Nuclear	
APPLICATION FOR MATERIAL LICENSE	Reduction Project (3150-0120), Office of Management and Budget, Washington, DC 20503. NRC may not conduct or sponsor, and a person is	
	not required to respond to, a collection of information unless it displays a currently valid OMB control number.	
INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUI SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO T	HE NRC OFFICE SPECIFIED BELOW.	
APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:	IF YOU ARE LOCATED IN:	
DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555-0001	ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO: MATERIALS LICENSING SECTION	
ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:	U.S. NUCLEAR REGULATORY COMMISSION, REGION III 801 WARRENVILLE RD.	
IF YOU ARE LOCATED IN:	LISLE, IL 60532-4351	
CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:	ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:	
LICENSING ASSISTANT SECTION NUCLEAR MATERIALS SAFETY BRANCH		
U.S. NUCLEAR REGULATORY COMMISSION, REGION 1	NUCLEAR MATERIALS LICENSING SECTION U.S. NUCLEAR REGULATORY COMMISSION, REGION IV	
475 ALLENDALE ROAD KING OF PRUSSIA, PA 19408-1415	811 RYAN PLAZA DRIVE, SUITE 400 ARLINGTON, TX 76011-8084	
ALABAMA, FLORIDA, GEORGIA, KENTUCXY, MISSISSIPPI, NORTH CAROLINA, PUERTO	45-2545501	
RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:	ARLINGTON, TX 78011-8084 45-25433-01 030-34777	
NUCLEAR MATERIALS LICENSING SECTION	030 39707	
U.S. NUCLEAR REGULATORY COMMISSION, REGION II 101 MARIETTA STREET, NW, SUITE 2900		
ATLANTA, GA 30323-0199		
PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR I MATERIAL IN STATES SUBJECT TO U.S.NUCLEAR REGULATORY COMMISSION JURISDICTION		
1. THIS IS AN APPLICATION FOR (Check appropriate item)	2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip code)	
X A. NEW LICENSE	Martin Marietta Materials, Inc.	
B. AMENDMENT TO LICENSE NUMBER	2710 Wycliff Rd. P. O. Box 30013	
C. RENEWAL OF LICENSE NUMBER	Raleigh, NC 27622	
3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED	4. NAME OF PERSON TO BE CONTACTED ABOUT THIS	
Doswell Quarry	APPLICATION	
P. O. Box 8 (VA 684, 3 miles west of Rt. 1)	) Adam J. Szczepanski	
12068 Stone Quarry Dr. Doswell, VA 23047	TELEPHONE NUMBER 919/783-4644	
Doswerr, W. 2004/	919/783-4644	
SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATIC		
<ol> <li>RADIOACTIVE MATERIAL.</li> <li>a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.</li> </ol>	6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.	
7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.	M AND THEIR 8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.	
9. FACILITIES AND EQUIPMENT.	10. RADIATION SAFETY PROGRAM.	
	12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)	
11. WASTE MANAGEMENT.	FEE CATEGORY	
<ol> <li>CERTIFICATION. (Musi be completed by applicant) THE APPLICANT UNDERSTANDS THAT UPON THE APPLICANT.</li> </ol>	ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING	
THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALE OF TH	E 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, 3 CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.	35, 38, 39 AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND	
WARNING: 18 U.S.C. SECTION 1001 ACT OFJUNE 25, 1948 62 STÅT, 749 MAKES IT A CRI ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN IT:	MINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO S JURISDICTION.	
CERTIFYING OFFICER - TYPED PRINTED NAME AND TITLE		
27erten P. Zelnak Jr President	Atohen School 6 29 98	
FOR NRC L		
	NUMBER COMMENTS	
APPROVED BY DATE		
NRC FCRM 313 (7-96)	PRINTED ON RECYCLED PAPER	
	NMISS/RGNI MATERIALS-002	

<b>MSS/RGNI</b>	MATER	IALS-00
-----------------	-------	---------

# 5. Radio Active Material

RIP RAP TOWER WALL S. O. 401002008-B Source Holder SHD Isotope CS 137 Ser. No. 6556, Ohmart Level Gauge MCI 300 Date Installed -- February, 1984

#### HEAD PULLEY C-3 CONVEYOR

S. O. 401002008-A Source Holder SH-100 Isotope CS 137 Ser. No. 51688, Ohmart Level Gauge MCI 50 Date Installed -- February, 1984 SS&D Number NR-522-884-B

PRIMARY CRUSHER BIN S. O. 48041 Source Holder SHRH-A Isotope CS 137 Ser. No. 63796, Ohmart Level Gauge MCI 1,000 Date Installed -- December, 1974 SS&D Number NR-522-D-882-B

# 6. Purpose for which licensed material will be used.

Level indication for the height of rock in bins at the Doswell Quarry.

# 7. See Attached Certificates for Training

The responsible individuals are:

James Doss attended the Ohmart Radiation Safety course on March 4 to 6, 1985 at the Ohmart Corporation Technical Training schools, Cincinnati, Ohio 45209. (Certificate copy attached.)

Jock Fuqua attended the Ohmart Radiation Safety course on March 4 to 6, 1985 at the Ohmart Corporation Technical Training Schools, Cincinnati, Ohio 45209. (Certificate copy attached.)

<u>Adam Szczepanski</u> attended the Troxler Electronic Laboratories, Inc., training course for the use of Nuclear Testing Equipment on August 8, 1987 at the Troxler Training Facility, 3008 Cornwallis Rd., P. O. Box 12057, Research Triangle Park, NC 27709. The above named individuals (James Doss and Jock Fuqua) are responsible for the daily operation of the gauges and performing wipe tests. The installation, initial radiation survey and any needed service was and will be conducted by the Ohmart Corporation.

No other persons will perform these duties unless they have had proper training by an authorized radiation safety training facility.

## 8. Training

The above stated authorized users have adequate training and experience to safely work with the gauges. Mr. Doss and Mr. Fuqua have had responsibility for the gauges since they were installed in 1974 and 1984. Mr. Doss and Mr. Fuqua are full time employees at the Doswell quarry and one or the other is physically present when the devices are in use. If any other individuals were to operate the devices, they would first attend the proper training classes provided by an authorized radiation safety training facility.

# 9. Facilities and Equipment

- 1) <u>Location: -</u> Enclosed are sketches for the Doswell sites.
  - Sketch 1 Primary Crusher sealed source model ELG-08
  - Sketch 2 C3 conveyor discharge box.
  - Sketch 3 Rip Rap Bin sealed source model L-1004.
- <u>Environmental Conditions</u> They are only exposed to ambient temperature and they are housed to protect them from the weather. They are mounted to minimize vibration.
- 3) N/A
- 4) N/A
- 5) <u>Maintenance</u> Shutter operation, labels, and outside contamination checks are performed at 6 month intervals and a wipe test is performed at 3 year intervals.
- 6) <u>Emergency Procedures</u> In the event of an accident involving damage to a gauge, the following persons would be responsible for notifying the U.S. N.R.C.:

James Doss	
Business Phone	804/227-3372
Home Phone	804/633-6354

Jock Fuqua	
Business Phone	804/227-3372
Home Phone	804/449-6844

#### Agencies to be notified:

United States Nuclear Regulatory Commission, Region II 61 Forsyth St., S. W., Suite 23T85 Atlanta, GA 30303 404/562-4727

Nuclear Regulatory Operations Center 301/816-5100

Other agencies that would be notified would be:

Local Emergency Planning Committee Pinewood Drive Ashland, VA

Doswell Fire Department Doswell, VA

804/798-8282

Hanover County Hazardous Material Coordinator Hanover County, VA 804/798-8554

Ohmart Corporation 4241 Allendorf Drive Cincinnati, Ohio 5

513/272-0131

Martin Marietta Materials Adam Szczepanski 2710 Wycliff Rd. Raleigh, NC 27607 919/783-4644

The area involving damage to a gauge would be evacuated of all personnel and secured until the proper agencies arrive or give instructions.

# 10. Radiation Safety Program

Our responsible radiation person, James C. Doss at Verndon will:

- A. Keep the keys to padlocks locking the gates/doors which prohibit access to certain gauge areas.
- B. See that leak test schedules are posted and leak tests performed according to license conditions. (Same for shutter mechanism tests.)
- C. Obtain and post current copies of Part 19 and Part 20, License Conditions, License Amendments, and Operations Procedures.
- D. See that all areas near gauges are secured, that all "danger" warning signs are posted, that lock-out procedures are carried out when necessary, and that only authorized persons enter the gauge areas.

#### Material Receipt and Accountability

Receipt records are maintained, as of this date no transfer or disposal of gauges has occurred. Physical inventories are conducted at 6-month intervals.

#### Occupational Dosimetry

The physical location and lock out procedure prevent an individual from receiving a radiation dose.

#### Public Dose

The gauges are used and located such that there is no public exposure to a radiation dose.

## **Operating and Emergency Procedures**

Operating and emergency procedures are maintained as per NRC requirements.

## Leak Tests

Leak Tests and records of the tests are done as per NRC regulations.

#### Maintenance

The shutter is checked for proper operation and the gauges are cleaned when needed. Any other maintenance would be conducted by Ohmart.

#### **Transportation**

The gauges are fixed and are not transported.

#### **Lock-Out Procedure**

Our lock-out procedures include padlocked steel gates and doors to prevent access to the areas where certain gauges are located while the plant and gauges are active.

Should anyone need to enter the gauge area, which is about one time a year, the following procedure is carried out:

A. Gauge shutters are closed to cover the source and block the beam path.

B. A responsible person only, will unlock the gates/doors and allow entrance.

This procedure precludes anyone from ever working in the beam path.

This lock-out procedure is posted for all employees to be familiar with the procedure.

# **10.1 Performance of Service Operations by Others**

All services such as installation, initial radiation survey, device relocation, or removal will be performed by our distributor who is:

Ohmart Corporation 4241 Allendorf Drive Cincinnati, Ohio

U.S.N.R.C. License #34-00639-01

- **10.2 Personnel Monitoring Equipment** N/A
- **10.3 Radiation Detection Instruments** N/A

# 10.4 Leak-Testing

Addressed in Item 9, Point 5.

James Doss and/or Jock Fuqua perform wipe tests with the Ohmart Leak Test Kit, Model No. 1652. It is processed by:

Ohmart Corporation 4241 Allendorf Dr. Cincinnati, Ohio

# **10.5 Lock-Out Procedures**

Addressed in Item 10, "Radiation Safety Program"

4 2

# **10.6 Performance of Services**

N/A

# 11. Waste Management

Should we have to dispose of a licensed gauge, it will be by transfer to an authorized recipient, such as the original supplier of the gauge, a commercial firm licensed by the NRC.

OVIER ELECTI	RONIC LABORATOR	ES IN
TROALL	HEREBY CERTIFIES THAT	-0, <i>II</i> VC.

-num!

ADAM SZCZEYANSKI

of

MARTIN MARIETTA AGGREGATES

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

- 2. Leak testing procedures.
- 3. Mathematics and calculations basic to 6. Accident and incident procedures. the use and measurement of radioactivity.
- 4. Biological effects of radiation.
- 1. Principles and practices of radiation 5. Radioactivity measurement standardization protection. instruments.

  - 7. Procedures for nuclear gauge storage and transportation.
  - 8. General safety precautions.

4. Field application

5. Gauge calibration

# Gauge Operation

- 1. Instrument theory
- 2. Operating procedures
- Maintenancz 3.

08-06-87 DATE

W. F. Troxler PRESIDENT

Nº 17148

# Duplicate Certificate of Attendance

Awarded to James C. Doss For the successful completion of the:

Ohmart Radiation Safety Course March 4 to 6, 1985 Presented at The Ohmart Corporation

Subject matter covered:

Basic atomic theory Measurement and monitoring techniques Exposure calculations Biological effects of radiation NRC regulations Leak test, shutter check Installation. relocation and removal procedures Proper disposal practices Emergency procedures

George W. Brown Training Manager

April 25, 1993



MANIA

Technical Training Schools Cincinnati, Ohio 45209

MAU

Duplicate **Certificate of Attendance** 

語語にして言語に

No. In Van

Awarded to Jock Fuqua For the successful completion of the:

**Ohmart Radiation Safety Course** March 4 to 6, 1985 Presented at The Ohmart Corporation

Subject matter covered:

The

Basic atomic theory Measurement and monitoring techniques Exposure calculations Biological effects of radiation NRC regulations Leak test, shutter check Installation. relocation and removal procedures Proper disposal practices Emergency procedures

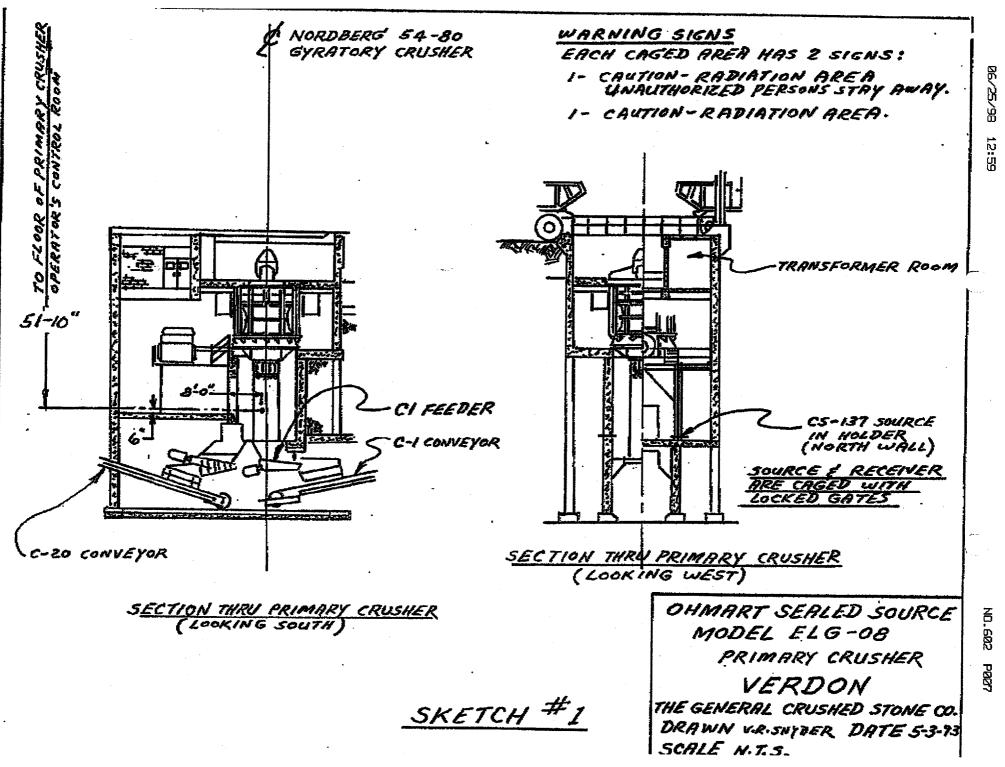
George W. Brown Training Manager



Cincinnati, Ohio 45209

JATAN MA





06-25-98 02:07PM P00

