

OFFICIAL RECORD COPY**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, 36, 39, 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 183 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. Martin Marietta Materials, Inc.
Doswell Quarry
2. 12068 Stone Quarry Drive
P. O. Box 30013
Doswell, Virginia 23047

3. License No. 45-25433-01

4. Expiration date July 31, 2008

5. Docket No. 030-34727
Reference No.6. Byproduct, source, and/or
special nuclear material

A. Cesium-137

7. Chemical and/or physical form

A. Sealed source (Ohmart
Corporation, Model
No. A-2102)8. Maximum amount that licensee
may possess at any one time
under this licenseA. No single source to exceed
the maximum activity
specified in the certificate of
registration issued by NRC
or an Agreement State

9. Authorized use:

- A. To be used, for level indication, in Ohmart Corporation, Model Nos. SHD, SH-100, and SHRH-A, fixed gauging devices.

CONDITIONS

10. Licensed material shall be used only at the licensee's facility located at Martin Marietta Materials, Inc., Doswell Quarry, Doswell, Virginia (VA 684, 3 miles west of Route 1).

1. A. Licensed material shall be used by, or under the supervision of, Adam Szczepanski, James Doss and Jock Fuqua.
- B. The Radiation Safety Officer for this license is Adam Szczepanski.
2. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
- A. Sealed sources or detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.

MLD

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

45-25433-01

Docket or Reference Number

030-34727

13. B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.
- C. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source received from another person shall not be put into use until tested.
- D. Sealed sources need not be leak tested if:
- i) they contain only hydrogen-3;
 - ii) they contain only a radioactive gas;
 - iii) the half-life of the isotope is 30 days or less;
 - iv) they contain not more than 3.7 megabecquerels [100 microcuries (μCi)] of beta and/or gamma emitting material or not more than 370 kilobecquerels (10 μCi) of alpha emitting material; or
 - v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transferred to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- E. The leak test shall be capable of detecting the presence of 185 becquerels (Bq) (0.005 μCi) of radioactive material on the test sample. If the test reveals the presence of 185 Bq (0.005 μCi) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(b)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region II, 61 Forsyth Street, S.W., Suite 23T85, Atlanta, Georgia 30303, ATTN: Director, Division of Nuclear Materials Safety. The report shall specify the source involved, the test results, and corrective action taken.
- F. The licensee is authorized to collect leak test samples for analysis by Ohmart Corporation. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
14. Each gauge shall be tested for the proper operation of the on-off mechanism and indicator, if any, at no longer than 6-month intervals or at such longer intervals as specified by the manufacturer and approved by U.S. Nuclear Regulatory Commission.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
45-25433-01Docket or Reference Number
030-34727

15. Installation, initial radiation surveys, relocation, removal from service, or any similar activity with devices containing licensed material shall be performed only by persons specifically licensed by the Commission or an Agreement State to perform such services. The licensee may initially mount the device only in accordance with written instructions provided by the manufacturer; however, the device may not be used until surveyed by a person specifically licensed by the Commission or an Agreement State to install gauges. The licensee may maintain, repair, or replace device components not directly associated with the device's sealed source, its related shielding, or the device's on-off mechanism; and that will not result in increased radiation levels in accessible areas about the device.
16. The licensee shall operate each gauge within the manufacturer's specified temperature and/or environmental limits such that the shielding and shutter mechanism of the source holder are not compromised.
17. The licensee shall assure that the shutter mechanism is locked in the closed position during periods when a portion of an individual's body may be subject to the direct radiation beam. The licensee shall review and modify as appropriate its "lock-out" procedures whenever a new gauge is obtained to incorporate the device manufacturer's recommendations.
18. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license.
19. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.
20. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

A. Applications dated:

1) April 20, 1998

2) June 29, 1998 [Additional information in support of the initial application dated 4/20/98]

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

WADE T. LOO

Date

JUL 02 1998

By

Region II, Division of Nuclear Materials Safety
61 Forsyth Street, S.W., Suite 23T85
Atlanta, Georgia 30303