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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	In accordance with letter received						
	January 25, 2011,						
1. Martin Marietta Magnesia Specialties, Inc.	3. License number 21-12986-01 is <b>renewed</b> in its entirety to read as follows:						
2. 1800 Eastlake Road	4. Expiration date July 31, 2021						
P.O. Box 398	5. Docket No. 030-04919						
Manistee, MI 49660	Reference No.						
<ol> <li>Byproduct, source,</li> <li>And/or special nuclear material</li> <li>Chemical and/or physi</li> </ol>	cal form 8. Maximum amount that licensee may possess at any one time under this license						
A. Cesium-137 A. Sealed sources (Texas Nuclear Mo	A. 4 sources not to exceeddel 570-57157C)200 millicuries each.						
B. Cesium-137 B. Sealed sources (Texas Nuclear Mod	B. 4 sources not to exceeddel 570-57157C)200 millicuries each.						
9. Authorized use:							
A. To be used in Texas Nuclear Models 5182A and	d 5179A source holder for level measurements.						
B. To be used in Texas Nuclear Models 5192 and 5179A source holder for level measurements.							
CONDITIONS							
<ol> <li>Licensed material may be used only at the licensee's facilities located at 1800 Eastlake Road, Manistee, Michigan.</li> </ol>							
11. The Radiation Safety Officer (RSO) for this license is Keary Schulz.							
12. Licensed material shall only be used by, or under the supervision and in the physical presence of, individuals who have received the training described in application dated January 21, 2011 (with attachments).							
13. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by an Agreement State.							

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B.	intervals under 10	osence of a certificate from a transferor indic s specified in the certificate of registration iss 0 CFR 32.210 or by an Agreement State, pri person shall not be put into use until tested	sued by the U.S. Nuclea ior to the transfer, a sea	ar Regu iled sou	lato	ry Co	omn	nission	
C.	are remo the requi	sources need not be tested if they are in sto oved from storage for use or transferred to a ired leak test interval, they shall be tested b or a period of more than 10 years without be	another person, and hav efore use or transfer. N	/e not b lo seale	been ed so	test ource	ted v e sh	within all be	
D.	the test s contamir	test shall be capable of detecting the prese sample. If the test reveals the presence of ( nation, a report shall be filed with the U.S. N 30.50(c)(2), and the source shall be remove	0.005 microcurie or mor luclear Regulatory Com	e of rei missior	mova n in a	able acco	ordar	nce with	

days of the date the leak test result is known with the appropriate U.S. Nuclear Regulatory Commission, Regional Office referenced in Appendix D of 10 CFR Part 20. The report shall specify the source involved, the test results, and corrective action taken.

repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5

- E. Tests for leakage an/or contamination, limited to leak test sample collection shall be performed by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services. The licensee is not authorized to perform the analysis. Analysis of leak test samples must be performed by Texas Nuclear or other persons specifically licensed by the Commission or an Agreement State to perform such services.
- F. Records of leak test results shall be kept in units of microcuries and shall be maintained for 3 years.
- 14. Sealed sources containing licensed material shall not be opened or sources removed from source holders by the licensee.
- 15. The licensee shall conduct a physical inventory every 6 months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sealed sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory, and shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.
- 16. A. Each gauge shall be tested for the proper operation of the on-off mechanism (shutter) and indicator, if any, at intervals not to exceed 6 months or at such longer intervals as specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or the equivalent regulations of an Agreement State.
  - B. Notwithstanding the periodic on-off mechanism (shutter) and indicator test, the requirement does not apply to gauges that are stored, not being used, and have the shutter lock mechanism in a locked position. The gauges exempted from this periodic test shall be tested before use.

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	a services shall not be performed by the licens						

- 17. The following services shall not be performed by the licensee: installation, initial radiation surveys, relocation, removal from service, dismantling, alignment, replacement, disposal of the sealed source and non-routine maintenance or repair of components related to the radiological safety of the gauge (i.e., the sealed source, the source holder, source drive mechanism, on-off mechanism (shutter), shutter control, shielding). These services shall be performed only by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
- **18.** The licensee shall operate each gauge within the manufacturer's specified temperature or any other environment limits such that the shielding and shutter mechanism of the source holder is not compromised.
- **19.** The licensee may initially mount a gauge if permitted by the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State and under the following conditions:
  - A. the gauge must be mounted in accordance with written instructions provided by the manufacturer;
  - B. the gauge must be mounted in a location compatible with the "Conditions of Normal Use" and "Limitations and/or Other Considerations of Use" in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State;
  - C. the on-off mechanism (shutter) must be locked in the off position, if applicable, or the source must be otherwise fully shielded;
  - D. the gauge must be received in good condition (i.e., package was not damaged); and
  - E. the gauge must not require any modification to fit in the proposed location.

Mounting does not include electrical connection, activation or operation of the gauge. The source must remain fully shielded and the gauge may not be used until it is installed and made operational by a person specifically licensed by the U.S. Regulatory Commission or an Agreement State to perform such operations.

- 20. Prior to initial use and after installation, relocation, dismantling, alignment, or any other activity involving the source or removal of the shielding, the licensee shall assure that a radiological survey is performed to determine radiation levels in accessible areas around, above, and below the gauge with the shutter open. This survey shall be performed only by persons authorized to perform such services by the U.S. Regulatory Commission or an Agreement State.
- 21. A. The licensee may maintain, repair, or replace device components that are not related to the radiological safety of the device containing byproduct material and that do not result in the potential for any portion of the body to come into contact with the primary beam or in increased radiation levels in accessible areas.
  - B. The licensee may not maintain, repair, or replace any of the following device components: the sealed source, the source holder, source drive mechanism, on-off mechanism (shutter), shutter control, or shielding, or any other component related to the radiological safety of the device, except as provided otherwise by specific condition of this license.

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- 22. The licensee shall assure that the shutter mechanism of each device 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 device is obtained to incorporate the device manufacturer's recommendations.
- 23. Except for maintaining labeling as required by 10 CFR Part 20, or 71, the licensee shall obtain authorization from the U.S. Nuclear Regulatory Commission before making any changes in the sealed source, device or source-device combination that would alter the description or specifications as indicated in the respective certificate of registration issued either by the Commission pursuant to 10 CFR 32.210 or by an Agreement State.
- 24. 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 U.S. 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. Application dated January 21, 2011 (with attachments).

B. Letter received January 25, 2011.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

By

Michael G. Herr', CNP Materials Licensing Branch Region III

Date JUL 1 5 2011