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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				
belov. 03120 316513				
Licensee		In accordance with letter received		
		September 11, 2007,		
1. O-N Minerals (Michigan) Company		3. License number 21-26757-01 is amended in its		
		entirety to read as follows:		
2. 1035 Calcite Road		4. Expiration date October 31, 2011		
Rogers City, MI 49779		5. Docket No. 030-34252		
		Reference No.		
 6. Byproduct, source, and/or special nuclear material 7. Chemical and/or physical form nuclear material 7. Chemical and/or physical form physical				
A. Cesium-137 A. Cesium-137 C A. Sealed sources (TN A. 2 sources not to exceed 500 Technologies, Inc. Model 57157C) A. 2 sources not to exceed 500 millicuries each.				
9. Authorized Use: A. For use in a Texas Nuclear Model 5204 source holder for density measurements.				
CONDITIONS				
10. Licensed material shall be used only at the licensee's facilities located at 1035 Calcite Road, Rogers City, Michigan.				
11. The Radiation Safety Officer for this license is John S. Grulke.				
12. Licensed material shall be used by, or under the supervision of John S. Grulke.				
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.				
B. In the absence of a certificate from a transferor indicating that a leak test has been made within 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, prior to the transfer, a sealed source received from another person shall not be put into use until tested and the test results received.				

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	C.	•	
		they are removed from storage for use or transferred within the required leak test interval, they shall be test	
		shall be stored for a period of more than 10 years wi	
		contamination.	
	D.	The leak test shall be capable of detecting the prese radioactive material on the test sample. If the test re	
		becquerels) or more of removable contamination, a r	report shall be filed with the U.S. Nuclear
l		Regulatory Commission in accordance with 10 CFR immediately from service and decontaminated, repair	
		Commission regulations.	
	E.	Tests for leakage an/or contamination, Rnited to leat	s test sample collection shall be performed by
		persons specifically licensed by the U.S. Nuclear Reperform such services. The licensee is not authorized	gulatory Commission or an Agreement State to
		samples must be performed by persons specifically l	
		State to perform such services.	$\mathcal{P}_{\mathcal{L}}$
14.		aled sources containing licensed material shall not be ders by the licensee, except as specifica lly authorized	
-			- ∂ ∂
15.	U.S	e licensee shall conduct a physic al inven tory event 6 n 5. Nuclear Regulatory Comm ission, to account for an	ealed sources and/of devices received and
	pos	sessed under the license. Records of inventories sha	all be maintained for years from the date of
		h inventory, and shall include the radionuclides, quan nbers, and the date of the inventory	titles, manufacturer's name and model
16		tallation, initial radiation survey, relocation, or ren	now from convice of devices containing
10.	sea	led sources shall be performed by persons specif	fically licensed by the Commission or an
		reement State to perform such services. Maintena lacement, and disposal of sealed sources shall be	
		insed by the Commission or an Agreement tate	
17.	Pric	or to initial use and after installation, relocation, dismar	ntling, alignment, or any other activity involving
	the	source or removal of the shielding, the licensee shall letermine radiation levels in accessible areas around,	assure that a radiological survey is performed
	ope	n. This survey shall be performed only by persons au	
	Cor	nmission or an Agreement State.	
<i>,</i>			
18.		licensee shall operate each gauge within the manufa ironmental limits such that the shielding and shutter m	

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19. 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.				
20.	20. 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.			
	Β.	Notwithstanding the periodic on-off mechanism (shutt not apply to gauges that are stored, not being used, a locked position. The gauges exempted from this period	and have the shutter lock mechanism in a iodic test shall be tested before use.	
21.	21. The licensee may initially mount a gauge if permitted by the certificate of registration issued by the U.S. Nuclear Regulatory Commission of an Agreement State and under the following conditions:			
	Α.	the gauge must be mounted in accordance with writte	en instructions provided by the manufacturer;	
	B. the gauge must be mounted in a loc ation compatible with the "Conditions of Normal Use" and "Limitations and/or Other Con siderations 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 in the be otherwise fully shielded;	of position, if applicable, or the source must	
	D.	the gauge must be received in good condition (i.e., pr	sckage was not demaged); and	
	Ε.	the gauge must not require any modification to fit in the	he 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 prinstalled and made operational by a person specifically licensed by the U.S. Regulatory Continission or an Agreement State to perform such operations.				
22. 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.				
23.		licensee is authorized to transport licensed material in 71, "Packaging and Transportation of Radioactive Ma		

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 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 August 3, 2001. 					
FOR THE U.S. NU	CLEAR REGULATORY COMMISSION				
Date By Date James R. Mulla Materials Licens Region III					