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U.S. NUCLEAR REGULATORY COMMISSION

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, 37, 39, 40, 70 and 71, 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	4.	. Expiration Date: April 30, 2034		
1. Nucor Steel Sedalia, LLC	EARREGU			
	5.	. Docket No.: 030-39151		
2. 500 Rebar Rd. Sedalia, MO 65301	3. License number: 24-35524-01	Reference No.:		
<u></u> ?	2			
 Byproduct, source, 7. Chemical and/or physical for and/or special nuclear material 	orm	9. Authorized use		
A. Cobalt-60 A. Sealed Sources (Bertho Technologies USA, LLC, P 2608-100)		 For use in Berthold Technologies GmbH & Co. KG, Model LB 300 IRL ML Type II Series fixed gauging devices to perform level measurements. 		
No.	CONDITIONS			
10. Licensed material may be used or stored only at the licensee's facilities located at 500 Rebar Rd., Sedalia, Missouri, 65301.				
11. Licensed material shall only be used by, or under the supervision of, individuals who have received the training described in the application dated January 2, 2019, and have been designated in writing by the Radiation Safety Officer. The licensee shall maintain records of individuals designated as users for 3 years following the last use of licensed material by the individual.				
12. The Radiation Safety Officer (RSO) for this license is Aaron Rowland.				

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13.	the certificate of registration issued b	y the U.S. Nuclear Regulatory Commis sealed sources shall be tested for leak	nination at intervals not to exceed the intervals specified in ssion under 10 CFR 32.210 or by an Agreement State. In the age and/or contamination at intervals not to exceed 6	
	registration issued by the U.S. Nucle		as been made within the intervals specified in the certificate of FR 32.210 or by an Agreement State, prior to the transfer, a ested and the test results received.	
	C. Sealed sources need not be tested if they 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 shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.			
	D. The leak test shall be capable of detecting the presence of 185 becquerels (0.005 microcuries) of radioactive material on the test sample. If the test reveals the presence of 185 becquerels (0.005 microcuries) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.			
	-		ersons specifically licensed by the U.S. Nuclear Regulatory is authorized to collect leak test samples but not perform	
	F. Records of leak test results shall be l	cept in units of becquerels (microcuries	s) and shall be maintained for 3 years.	
14.	Sealed sources containing licensed mate specifically authorized.	rial shall not be opened or sources rer	noved from source holders by the licensee, except as	

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15.	to account for all sealed sources and/or of	levices received and possessed under t	vals approved by the U.S. Nuclear Regulatory Commission, the license. Records of inventories shall be maintained for 3 tities, manufacturer's name and model numbers, and the
16.	months or at such longer intervals as	roper operation of the on-off mechanism specified in the certificate of registration uivalent regulations of an Agreement St	n (shutter) and indicator, if any, at intervals not to exceed 6 on issued by the U.S. Nuclear Regulatory Commission tate.
	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. Records of test results shall be maintained for 3 years from the date of each test.		
17.	A. Installation, initial radiation surveys, relocation, and removal from service of the gauge shall be performed only by individuals who have completed the training specified in letter dated April 11, 2019, or by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.		
	3. The following services shall not be performed by the licensee: dismantling, alignment, replacement, disposal of the sealed sources, and non-routine maintenance or repair of components related to the radiological safety of the gauge. 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 may initially mount a gauge an Agreement State, and under the follow		ration issued by the U.S. Nuclear Regulatory Commission or
	A. The gauge must be mounted in acco	ordance with written instructions provided	ed by the manufacturer.
		ation compatible with the Conditions of ssued by the U.S. Nuclear Regulatory C	Normal Use and Limitations and/or Other Considerations of Commission or an Agreement State.

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- 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 conditions (e.g., the package was not damaged).
- 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. Nuclear Regulatory Commission or an Agreement State to perform such operations.

- 19. A. The licensee may maintain, repair, or replace device components that are not related to the radiological safety of the device containing licensed material and that do not result in the potential for any portion of the body to come into contact with the primary beam or result in increased radiation levels in accessible greas.
 - 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, shielding, or any other component related to the radiological safety of the device, except as provided otherwise by specific condition of this license.
- 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. Nuclear Regulatory Commission or an Agreement State.
- 21. The licensee shall operate each device containing licensed material within the manufacturer's specified temperature and environmental limits such that the shielding and shutter mechanism of the source holder are not compromised.

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periods when a portion of an individual's appropriate, its "lock-out" procedures w 23. Except for maintaining labeling as requi Regulatory Commission before making	s body may be subject to the direct radiation henever a new device is obtained to incom- ired by 10 CFR Part 20, or Part 71, the lic any changes in the sealed source, device d in the respective certificate of registration	licensed material is locked in the closed position during ion beam. The licensee shall review and modify, as rporate the device manufacturer's recommendations. ensee shall obtain authorization from the U.S. Nuclear e, or source-device combination that would alter the on issued either by the U.S. Nuclear Regulatory
 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. This license condition applies only to those procedures that are required to be submitted in accordance with the regulations. 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 2, 2019 (ML19008A322) B. Letter dated March 28, 2019 (ML19093B592) C. Letter dated April 11, 2019 (ML19101A423) 		
Date: APR 3 0 2019	FOR By: F	THE U.S. NUCLEAR REGULATORY COMMISSION