NRC FORM 374 U.S. NUCLEAR REGU	PAGE <u>1</u> OF <u>4</u> PAGES ILATORY COMMISSION Amendment No. 09					
<b>MATERIALS LICENSE</b> 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 pow or hereafter in effect						
and to any conditions specified below.//// 0 2/20	In accordance with application dated					
	January 25. 2011,					
1. Gerdau — Monroe Mill	3. License number 21-18673-01 is <b>renewed</b> in its entirety to read as follows:					
2. 3000 East Front Street	4. Expiration date July 31, 2021					
Monroe, MI 48161	5. Docket No. 030-14021 Reference No.					
<ul> <li>6. Byproduct, source, and/or special nuclear material</li> <li>7. Chemical and/or physical form</li> <li>8. Maximum amount that licensee may possess at any one time under this license</li> <li>A. Cobalt -60</li> <li>A. Sealed sources (Berthold Systems, Inc. Drawing and P-2608-101)</li> <li>8. Maximum amount that licensee may possess at any one time under this license</li> </ul>						
9. Authorized use: A. To be used in Berthold Systems, Inc. Model LB	-300-IRL Series source holder for level measurements					
	<u>FIONS</u>					
10. Licensed material shall be used only at the licensee Michigan.	e's facilities located at 3000 E. Front Street, Monroe,					
11. A. Licensed material shall be used by, or under the Les Hartford.	e supervision of Craig Metzger, Carson Young, and/or					
B. The Radiation Safety Officer for this license is C	raig Metzger.					
12. A. Sealed sources shall be tested for leakage and/ intervals specified in the certificate of registratio under 10 CFR 32.210 or by an Agreement State	n issued by the U.S. Nuclear Regulatory Commission					
	n issued by the U.S. Nuclear Regulatory Commission e, prior to the transfer, a sealed source received from					

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	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 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) 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.						
	U.S. Nu is not a	for leakage and/or contamination shall be perfor luclear Regulatory Commission or an Agreemer authorized to perform the analysis. Analysis of as specifically licensed by the Commission or ar	nt State to perform such services. The licensee leak test samples must be performed by				
	F. Record	ds of leak test results shall be kept in units of mi	icrocuries and shall be maintained for 3 years.				
13.		urces containing licensed material shall not be on the licensee.	opened or sources removed from source				
14.	. 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.						
15.	any, at registra	auge shall be tested for the proper operation of intervals not to exceed 6 months or at such lon ation issued by the U.S. Nuclear Regulatory Co lent regulations of an Agreement State.					
	apply to	nstanding the periodic on-off mechanism (shutte o gauges that are stored, not being used, and h n. The gauges exempted from this periodic test	have the shutter lock mechanism in a locked				
16.	relocation, i non-routine sealed sour shielding).	ing services shall not be performed by the licens removal from service, dismantling, alignment, r e maintenance or repair of components related to arce, the source holder, source drive mechanism These services shall be performed only by person Commission or an Agreement State to perform	replacement, disposal of the sealed source and to the radiological safety of the gauge (i.e., the n, on-off mechanism (shutter), shutter control, rsons specifically licensed by the U.S. Nuclear				

17. 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:

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	A. the gauge	must be mounted in accordance with writt	en instructions provided by the manufacturer;				
	"Limitation	must be mounted in a location compatible is and/or Other Considerations of Use" in the egulatory Commission or an Agreement St	he certificate of registration issued by the U.S.				
		mechanism (shutter) must be locked in the fully shielded;	e off position, if applicable, or the source must be				
	D. the gauge	must be received in good condition (i.e., p	ackage was not damaged); and				
	E. the gauge	must not require any modification to fit in t	he proposed location.				
	remain fully sh	nielded and the gauge may not be used un	on or operation of the gauge. The source must til it is installed and made operational by a mission or an Agreement State to perform such				
18.	the source or r determine radi This survey sh	removal of the shielding, the licensee shall	Intling, alignment, or any other activity involving assure that a radiological survey is performed to pove, and below the gauge with the shutter open. ed to perform such services by the U.S.				
19.		nd environmental limits such that the shield	ed material within the manufacturer's specified ding and shutter mechanism of the source holder				
20.	during periods licensee shall r	when a portion of an individual's body may	mechanism of each device is locked in the closed position lual's body may be subject to the direct radiation beam. The opriate, its "lock-out" procedures whenever a new device is loturer's recommendations.				
21.	authorization fr source, device indicated in the	or source-device combination that would a	sion before making any changes in the sealed				

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22. Except as s	specifically provided otherwise in this license	e, the licensee shall cond	luct its	pro	gram	ı in	

2. 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. Application dated January 25, 2011 (with attachments).

B. Letter dated July 26, 2011.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

By \_\_\_\_\_\_ Michael G. Herr, CHP Materials Licensing Branch Region III

Date JUL 27 2011