NRC	NRC FORM 374 U.S. NUCLEAR REGULATORY COMMISSION Amendment No. 5							
	MATERIALS LICENSE							
Purs Part auth and licer and	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 In accordance with email 4. Expiration Date: July 31, 2034							
1.	The Ohio County Coal Cor Shoemaker Mine Preparati	npany on Plant	dated June 10, 2019,	х				
Shoemaker Mine Preparation Plant				5. Docket No.: 030-38721				
2.	46226 National Road St. Clairsville, OH 43950		3. License number: 34-35134-02 ⁻ is amended in its entirety to read as follows:	Reference No.:				
6.	Byproduct, source, and/or special nuclear material	7. Chemical and/or physical f	form 8. Maximum amount that licer may possess at any one tin under this license	nsee 9. Authorized use				
A.	Cesium-137	A. Sealed Sources (QSA C Inc., Model CDC.700 or CDC.711M)	Global, A. 2100 mCi total and no single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission Agreement State.	A. For use in Thermo Process Instruments, L.P, Models 5201 and 5203 fixed gauging devices to perform density, level, and interface measurements or				
B.	Cesium-137	 B. Sealed Sources (Amers Corporation/AEA Technology/QSA, Inc., I CDC.P4; Berthold Techn USA, LLC, Model SSC Isotope Products Labor Model Cs7.P02 and Cs 	ham B. 20 millicuries per source and 20 millicuries total Model nologies Series; atories, 7.P04-A)	 For use in Berthold Technologies, Model LB 7440F CR fixed gauging devices for controlling industrial processes. 				

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	MATERIALS LICENSE SUPPLEMENTARY SHEET		License Number 34-35134-02		Docket or Reference Number 030-38721		umber		
			Amendment No. 5						
6.	Byproduct, source, and/or special nuclear material	7.	Chemical and	/or physical form	8.	Maximum amo may possess	ount that licensee at any one time nse	9.	Authorized use
C.	Cesium-137	C.	Sealed Sour Ziegler Isotor Laboratories QSA Global, CDC.700 Se	ces (Eckert & pe Products , Model HEG-137; Inc., Model eries)	C.	10 millicuries and 10 millic	per source uries total	C.	For use in Thermo Gamma Metrics, Model CB-HI Cross-Belt Elemental Analyzer fixed gauging device for measuring the quality of coal.
D.	Californium-252	D.	Sealed Neut & Ziegler Iso Laboratories and N-252 S Technology (100 Series; T Scientific Ce Model HK25 Electric Hitad America, LL0 GEN-Cf-100 Inc., Model (CVN.CY6, (CVN.CY6, C CVN.CY15, CVN.CY17)	ron Source (Eckert tope Products Model 3004, 3014, beries; Frontier Corporatoin, Model FSUE State Inter of Russia, 2M41; General chi Nuclear Energy C, Model Series; QSA Global, CVN.CYn Series CVN.CY14, CVN.CY14, CVN.CY16,	D.	14 millicuries and 14 millic	s per source uries total	D.	For use in Thermo Gamma Metrics, Model CB-HI Cross-Belt Elemental Analyzer fixed gauging device for measuring the quality of coal.
	CONDITIONS								
10	Licensed material may Street, Benwood, Wes	/ be us it Virgi	ed or stored nia, 26031.	at the licensee's facilit	ies lo	ocated at Sho	oemaker Mine F	repa	ration Plant Facility, 300 McMechen

NRC FORM 374A U.S. NUCLEAR REGULATORY COMMISSION PAGE 3 OF 6 PAGES									
MATERIALS	CENSE	License Number 34-35134-02	Docket or Reference Number 030-38721						
SUPPLEMENTAF	Y SHEET	Amendment No. 5							
 Licensed material sha dated March 15, 2019 individuals designated The Radiation Safety 0 	 Licensed material shall only be used by, or under the supervision of, individuals who have received the training described in the application dated March 15, 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. The Radiation Safety Officer (RSO) for this license is Jeffrey Webb. 								
 13. A. Sealed sources ar the certificate of re absence of a regis months, or at such B. In the absence of registration issued sealed source rec C. Sealed sources ne or transferred to a transfer. No seale D. The leak test shall sample. If the test filed with the U.S. immediately from E. Analysis of leak te Commission or an the analysis 	ad detector cells s egistration issued tration certificate other intervals a a certificate from by the U.S. Nucl eved from another eved not be tested nother person, ar d source shall be be capable of de reveals the prese Nuclear Regulato service and deco st samples and/o	chall be tested for leakage and by the U.S. Nuclear Regulators sealed sources shall be test s specified. a transferor indicating that a ear Regulatory Commission is er person shall not be put into if they are in storage and are not have not been tested within stored for a period of more the etecting the presence of 185 te ence of 185 becquerels (0.000 ory Commission in accordance intaminated, repaired, or dispon to perform such services. The	d/or contamination at intervals not to exp ory Commission under 10 CFR 32.210 of ed for leakage and/or contamination at i leak test has been made within the inter- under 10 CFR 32.210 or by an Agreeme of use until tested and the test results rec or not being used. However, when they are in the required leak test interval, they sha han 10 years without being tested for lead becquerels (0.005 microcuries) of radioa 5 microcuries) or more of removable cor- e with 10 CFR 30.50(c)(2), and the sour- osed of in accordance with Commission formed by persons specifically licensed by the licensee is authorized to collect leak test	ceed the intervals specified in r by an Agreement State. In the ntervals not to exceed 6 vals specified in the certificate of nt State, prior to the transfer, a eived. The removed from storage for use all be tested before use or takage and/or contamination. Ctive material on the test intamination, a report shall be ce shall be removed regulations. By the U.S. Nuclear Regulatory test samples but not perform					

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	MATERIALSLICENSE	34-35134-02	Docket or Reference Number 030-38721			
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	F. Records of leak test results shall be	e kept in units of becquerels (microcu	ies) and shall be maintained for 3 years.			
14.	Sealed sources containing licensed man specifically authorized.	terial shall not be opened or sources	emoved from source holders by the licensee, except as			
15.	The licensee shall conduct a physical in to account for all sealed sources and/or years from the date of each inventory, a date of the inventory.	iventory every 6 months, or at other in devices received and possessed und and shall include the radionuclides, qu	ntervals approved by the U.S. Nuclear Regulatory Commission, ler the license. Records of inventories shall be maintained for 3 antities, manufacturer's name and model numbers, and the			
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. Records of test results shall be maintained for 3 years from the date of each test.					
17.	The following services shall not be perform dismantling, alignment, replacement, di radiological safety of the gauge. These Commission or an Agreement State to p	ormed by the licensee: Installation, ir sposal of the sealed sources, and no services shall be performed only by p perform such services.	itial radiation surveys, relocation, removal from service, n-routine maintenance or repair of components related to the persons specifically licensed by the U.S. Nuclear Regulatory			
18.	The licensee may initially mount a gaug an Agreement State, and under the follo	e, if permitted by the certificate of reconving conditions:	istration issued by the U.S. Nuclear Regulatory Commission or			
	A. The gauge must be mounted in acc	ordance with written instructions prov	ided by the manufacturer.			

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NRC F	FORM 374A	U.S. NUCLEAR REGULA	TORY COMMISSION	PAGE 5 OF 6 PAGES
	MATERIALS LICENSE	License Number 34-35134-02	Docket or Reference Number 030-38721	
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	B. The gauge must be mounted in a lo Use in the certificate of registration	cation compatible with the Con issued by the U.S. Nuclear Reg	ditions of Normal Use and Limitations ar gulatory Commission or an Agreement St	d/or Other Considerations of ate.
	C. The on-off mechanism (shutter) mu	st be locked in the off position,	if applicable, or the source must be othe	wise fully shielded.
	D. The gauge must be received in goo	d conditions (e.g., the package	was not damaged).	
	E. The gauge must not require any mo	odification to fit in the proposed	location.	
	Mounting does not include electrical gauge may not be used until it is in Commission or an Agreement State	I connection, activation, or ope stalled and made operational by to perform such operations.	ration of the gauge. The source must ren /a person specifically licensed by the U.	nain fully shielded, and the S. Nuclear Regulatory
19.	A. The licensee may maintain, repair, licensed material and that do not re increased radiation levels in access	or replace device components sult in the potential for any port sible areas.	that are not related to the radiological sa ion of the body to come into contact with	fety of the device containing the primary beam or result in
	 B. The licensee may not maintain, rep drive mechanism, on-off mechanisr device, except as provided otherwise 	air, or replace any of the follow n (shutter), shutter control, shie se by specific condition of this li	ing device components: the sealed source lding, or any other component related to cense.	ce, the source holder, source the radiological safety of the
20.	Prior to initial use and after installation, shielding, the licensee shall assure that and below the gauge with the shutter of Nuclear Regulatory Commission or an <i>i</i>	relocation, dismantling, alignme a radiological survey is perforr pen. This survey shall be perfor Agreement State.	ent, or any other activity involving the some ned to determine radiation levels in acce med only by persons authorized to perfo	urce or removal of the ssible areas around, above, rm such services by the U.S.
21.	The licensee shall operate each device limits such that the shielding and shutte	containing licensed material w r mechanism of the source hole	thin the manufacturer's specified temper der are not compromised.	ature and environmental

MATERIALS LICENSE SUPPLEMENTARY SHEET License Number 34-35134-02 Amendment No. 5 Docket or Reference Number 030-38721 22. The licensee shall assure that the shutter mechanism of each device containing licensed material 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 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 licensee 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 March 15, 2019 (ML19190A317) Date: September 3, 2019 Date: September 3, 2019	NRC FORM 374A	U.S. NUCLEAR REGULATORY COM	MISSION	PAGE 6 OF 6 PAGES
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