NRC FORM 374 PAGE _____ OF ____ PAGES Amendment No. 13 **U.S. NUCLEAR REGULATORY COMMISSION** MATERIALS LICENSE Corrected Copy 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 application dated July 1, 2010, 1. Board of Municipal Utilities 3. License number 24-18952-01 is renewed in its entirety to read as follows: 2. 138 N. Prairie 4. Expiration date November 30, 2020 P.O. Box 370 5. Docket No. 030-17394 Sikeston, MO 63801 Reference No. 6. Byproduct, source, and/or special 7. Chemical and/or physical form 8. Maximum amount that licensee may nuclear material possess at any one time under this license Cesium-137 A. Sealed sources (Texas A A. **18** sources not to exceed 50 Nuclear Model 570millicuries each 57157C) B. Cesium-137 B. Sealed sources (Texas B. 5 sources not to exceed 100 Nuclear Model 570millicuries each 57157C) C. Cesium-137 C. Sealed sources (Kay-Ray C. 20 sources not to exceed 50 Model 7700-Y and NEN millicuries each Model 570 for use in the Kay Ray Model 7062P device only) D. Cesium-137 D. Sealed sources (Texas D. 9 sources not to exceed 50 Nuclear Model 696894) millicuries each

9. Authorized Use:

A. To be used in Texas Nuclear Model 5197 source holder for level measurement.

B. To be used in Texas Nuclear Model 5190 source holder for density measurement.

C. To be used in Kay-Ray Model 7062P and/or 7062BP source holder for level measurement.

D. To be used in Texas Nuclear Model 5219 source holder for level measurement.

NRC	FOR	M 374A U.S. NUCLEAR REGULATORY COMMISSION	PAGE 2 of 5 PAGES							
			License Number 24-18952-01							
MATERIALS LICENSE SUPPLEMENTARY SHEET			Docket or Reference Number 030-17394							
			Amendment No. 13							
			Corrected Copy							
	CONDITIONS									
10.	. Licensed material shall be used only at the licensee's facilities located at Sikeston Power Station, 1551 W. Wakefield Road, Sikeston, Missouri.									
11.	A. Licensed material shall be used by, or under the supervision of Rick Landers.									
	B. The Radiation Safety Officer for this license is Rick Landers.									
12.	. Sealed sources containing licensed material shall not be opened or removed from the gauges by the licensee.									
13.	A.	Sealed sources shall be tested for leakage and/or cormonths or at such other intervals as specified by the 32.210.								
	B.	In the absence of a certificate from a transferor indica 6 months prior to the transfer, a sealed source receive use until tested.								
	C.	Sealed sources need not be leak tested if they are in when they are removed from storage for use or transf tested within the required leak test interval, they shall source shall be stored for a period of more than 10 ye contamination.	erred to another person, and have not been be tested before use or transfer. No sealed							
	D.	The leak test shall be capable of detecting the presen radioactive material on the test sample. If the test reve becquerels) or more of removable contamination, a re Regulatory Commission in accordance with 10 CFR 3 immediately from service and decontaminated, repaire Commission regulations.	eals the presence of 0.005 microcurie (185 port shall be filed with the U.S. Nuclear 0.50(c)(2), and the source shall be removed							
	E.	Tests for leakage an/or contamination, limited to leak persons specifically licensed by the U.S. Nuclear Regist perform such services. The licensee is not authorized samples must be performed by persons specifically license State to perform such services.	ulatory Commission or an Agreement State to I to perform the analysis. Analysis of leak test							
	F.	Records of leak test results shall be kept in units of mi	crocuries and shall be maintained for 3 years.							
14.		licensee shall conduct a physical inventory every 6 mc lear Regulatory Commission, to account for all sealed 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.

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NRC FORM 374A U.S. NUCLEAR REGULATORY COMMISSION PAGE 3 of									
			License Number 24-18952-01						
		MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 030-17394						
			Amendment No. 13						
			Corrected Copy						
15.	A.	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 mechani locked position. The gauges exempted from this periodic test shall be tested before use.								
16.		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:							
	Α.	the gauge must be mounted in accordance with writte manufacturer;	en instructions provided by the						
	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 issue U.S. Nuclear Regulatory Commission or an Agreement State:								
	C.	 the on-off mechanism (shutter) must be locked I the off position, if applicable, or the source must be otherwise fully shielded; 							
	D.	D. the gauge must be received in food condition (i.e., package was not damaged); and							
	E. the gauge must not require any modification to fit in the proposed location.								
	rem spe	Mounting does not include electrical connection, activation or operation of the gauge. The so remain fully shielded and the guage may not be used until it is installed and made operational specifically licensed by the U.S. Regulatory Commission or an Agreement State to perform s operations.							
17.	Α.	The licensee may maintain, repair, or replace device radiological safety of the device containing byproduc potential for any portion of the body to come into con radiation levels in accessible areas.	t material and that do not result in the						
	Β.	3. 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.							

NRC FORM 374A	U.S. NUCLEAR REGULATORY COMMISSION		PAGE	4	of	5	PAGES
		License Number 24-18952-01					
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 030-17394					
		Amendment No. 13					
		Corrected Copy					
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- 18. 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.
- 19. 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.
- 20. 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.
- 21. 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.
- 22. Installation, initial radiation survey, relocation, or removal from service of devices containing sealed sources shall be performed by Rick Landers or other persons specifically licensed by the Commission or an Agreement State to perform such services. Maintenance and repair of devices and installation, replacement, and disposal of sealed sources shall be performed only by persons specifically licensed by the Commission or an Agreement State to perform such services.
- 23. 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 also modify their "lock-out" procedures whenever a new gauge is obtained for use other than purposes for which they are currently authorized to incorporate the device manufacturer's recommendations.
- 24. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
- 25. The licensee shall implement and maintain procedures for routine maintenance of fixed gauges according to each manufacturer's or distributor's written recommendations and instructions.

NRC FORM 374A	U.S. NUCLEAR REGULATORY COMMISSION		PAGE	5	of	5	PAGES
	MATERIALS LICENSE SUPPLEMENTARY SHEET						
		Amendment No. 13 Corrected Copy					

26. 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 July 1, 2010; and

B. Letters dated December 19, 2003, December 22, 2003, (with attached application dated December 22, 2003).

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date JAN 2 5 2011

llour By

James R. Mullauer, M.H.S. Materials Licensing Branch Region III