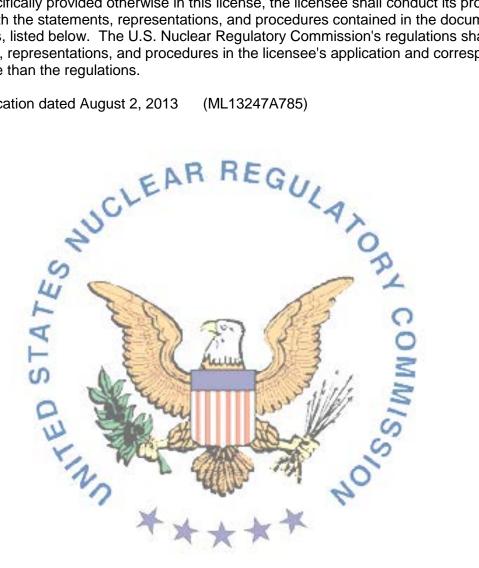
NRC FORM 374 U.S. NUCLEAR REGU	PAGE <u>1</u> OF <u>4</u> PAGES			
<b>MATERIALS LICENSE</b> Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, 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 now or hereafter in effect and to any conditions specified below.				
Licensee				
1. South Dakota Science & Technology Authority	3. License number 40-35101-01			
2. 630 E. Summit Street	4. Expiration date November 30, 2023			
Lead, South Dakota 57754	5. Docket No. 030-38681 Reference No.			
6. Byproduct, source, and/or special 7. Chemical and/or nuclear material	physical form 8. Maximum amount that licensee may possess at any one time under this license			
A. Thorium-228 A. Sealed sources (Eckert & A. I microcurie per source and Ziegler Model GF-228D) A. I microcuries total				
<ul> <li>B. Americum:Be-241</li> <li>C. Cobalt-60</li> <li>B. Sealed sources ((Eckert &amp; Ziegler Model GF-241D)</li> <li>C. Sealed sources ((Eckert &amp; Ziegler Model GF-060D)</li> </ul>				
9. Authorized Use:	Pr va 20			
A. through C. For calibration of licensee's instruments.				
CONDI	TIONS			
<ol> <li>Licensed material shall be stored or used only at the licensee's facilities located at 630 E. Summit Street Lead, South Dakota.</li> </ol>				
<ol> <li>A. Licensed material shall be used by or under the supervision of Charles P. Lichtenwalner, Jaret Heise, Ph.D., and Peggy Norris, Ph.D.</li> </ol>				
B. The Radiation Safety Officer for this license is (	Charles P. Lichtenwalner.			
12. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the limits specified in 10 CFR 30.72 which require consideration of the need for an emergency plan for responding to a release of licensed material.				

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						License Number 40-35101-01
			MATERIAL			Docket or Reference Number
			SUPPLEMEN	FARY SHEE	T	030-38681
13.	qu		elow the minim			censee shall further restrict the possession of to 30.35(d), 40.36(b), and 70.25(d) for establishing
14.	U.: un an	S. Nuclea der the lic	r Regulatory C cense. Record clude the radio	commission s of invento	i, to account for all pries shall be main	months, or at other intervals approved by the source s and/or devices received and possessed tained for 5 years from the date of each inventory turer's name and model numbers, and the date o
15.	A.	exceed t	the intervals sp	pecified in t		r leakage and/or contamination at intervals not to gistration issued by the U.S. Nuclear Regulatory nent State.
	В.					ed sources and detector cells designed to emit ntamination at intervals not to exceed 3 months.
	A.	intervals under 10	specified in th CFR 32.210	e certificate	e of registration iss preement State, pr	cating that a leak test has been made within the sued by the U.S. Nuclear Regulatory Commission for to the transfer, a sealed source and/or detector to use until tested and the test results received.
	B.	only a ra 100 mic	dioactive gas;	or the half-	life of the isotope	ed if they contain only hydrogen-3; or they contain is 30 days or less; or they contain not more than erial or not more than 10 microcuries of alpha
	C.	Howeve been tes sealed s	r, when they a sted within the	re removed required leader letector cel	I from storage for u ak test interval, the I shall be stored fo	ed if they are in storage and are not being used. use or transferred to another person, and have no ey shall be tested before use or transfer. No or a period of more than 10 years without being
	D.	radioact (185 bed Regulate immedia Commis known w Arlingtor specify t shall be	ive material on cquerels) or mo ory Commissio itely from servi sion regulation vith the U.S. No h, Texas 7601 he source invo kept in units o	the test sa ore of remo on in accord ce and dec is. The rep uclear Regu 1-4511, AT olved, the te f microcurie	ample. If the test re vable contamination lance with 10 CFR contaminated, repar- port shall be filed w ulatory Commission TN: Director, Division est results, and con	ence of 0.005 microcurie (185 becquerels) of eveals the presence of 0.005 microcurie on, a report shall be filed with the U.S. Nuclear . 30.50(c)(2), and the source shall be removed aired, or disposed of in accordance with rithin 5 days of the date the leak test result is in, Region IV, 1600 East Lamar Boulevard, sion of Nuclear Materials Safety. The report shall rective action taken. Records of leak test results intained for inspection by the Commission. inspection.

NRC	NRC FORM 374A U.S. NUCLEAR REGULATORY COMMISSIO		PAGE 3 of 4 PAGES			
			License Number 40-35101-01			
	MATERIALS LICENSE		Docket or Reference Number 030-38681			
		SUPPLEMENTARY SHEET	030-36061			
		or leakage and/or contamination shall be perfo ssion or an Agreement State to perform such s				
	F. Records of leak test results shall be kept in units of microcuries and shall be maintained for 3 years.					
16.	Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.					
17.	The licensee shall not acquire licensed material in a sealed source or device unless the source or device has been registered with the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or equivalent regulations of an Agreement State.					
18.	This license does not authorize commercial distribution of licensed material.					
19.	The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."					
20.	The licensee shall maintain records of information related to decommissioning as specified in 10 CFR 30.35(g) until this license is terminated by the Commission.					
21.	The licensee shall not use licensed material in field applications where activity is released to the environment except as provided otherwise by specific condition of this license.					
22.	Notwithstanding the requirements of License Condition 32, the licensee is authorized to make program changes and changes to procedures specifically identified in the application dated August 2, 2013, which were previously approved by the Commission and incorporated into the license, without prior Commission approval, as long as:					
		posed revision is documented, reviewed, and tee in accordance with established procedure				
	B. The revised program is in accordance with regulatory requirements, will not change license conditions, and will not decrease the effectiveness of the Radiation Safety Program;					
	C. The licensee's staff is trained in the revised procedures prior to implementation; and					
	D. The licensee's audit program evaluates the effectiveness of the change and its implementation.					

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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. The U.S. Nuclear Regulatory Commission's regulations shall govern unles the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.			
	А.	Application dated August 2, 2013 (ML13247)	A785)



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: November 16, 2013

By:

/RA/

Michelle Simmons, Health Physicist Nuclear Materials Safety Branch B Region IV Arlington, Texas 76011-4511