IRC FORM 374			PAGE	OFPAGES Amendment No. 13			
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, 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					
1. Donald Danforth Plant Science Center	 License number 24-32339-01 is renewed in its entirety to read as follows: 						
2. 975 North Warson Road	4. Expiration date March 31, 2022						
St. Louis, MO 63132		5. Docket No. 030-35805					
6. Byproduct, source, and/or special 7. Chemical and/or physical form 8. Maximum amount that licensee may possess at any one time under this license							
A. Hydrogen-3	A. Any Bound	(non-volatile)	A. 1500 mil	licuries			
B. Carbon-14	B. Any		B. 500 millio	curies			
C. lodine-125 C. Any Bound (non-volatile) C. 5 millicuries							
D. Phosphorus-32	D. Any		D. 250 millio	curies			
E. Phosphorus-33	E. Any	an a	E. 50 millicu	uries			
F. Sulfur-35	F. Any		F. 60 millicu	Jries			
9. Authorized Use:							
A. through F. Research and devel animal studies).	lopment, as def	fined in Section 30,4	of 10 CFR Pa	art 30, (excluding			
	CONDIT	IONS		<u></u>			
 Licensed material shall be used only at the licensee's facilities located at 975 North Warson Road, St. Louis, Missouri, 63132. 							
11. The Radiation Safety Officer for this license is Howard F. Beittenmiller, B.S.							
12. Licensed material listed above is only authorized for use by, or under the supervision of, the following individuals for the materials and uses indicated:							
Authorized User	Mater	rials and Use					
Roger N. Beachy, Ph.D.	All						
Claude Fauquet, Ph.D.	All						

NRC FORM 374A	U.S. NUCLEAR REGULATO	RY COMMISSION		PAGE	2	of	3	PAGES
			License Number 24-32339-01					
MATERIALS LICENSE SUPPLEMENTARY SHEET		Docket or Reference Numl 030-35805	per					
		Amendment No. 13						
Thomas J	. Smith, Ph.D.	All	L					
Dilip M. Sl	hah, Ph.D.	All						
Jan G. Jay	worski, Ph.D.	All						
Yong-qian	g An, Ph.D.	Phosphoru	s-32 and Sulfur-35					
Ivan Baxte	er, Ph.D.	Phosphoru	s-32					
Xuemin W	/ang, Ph.D.	All						
Toni M. Ku	utchan, Ph.D.	All						
Sona Pan	dey, Ph.D.	All						
James C.	Carrington, Ph.D.	All						
Douglas K	. Allen, Ph.D.	All						7
James G.	Umen, Ph.D.	All						
Dmitri A. N	lusinow, Ph.D.	Phosphoru	s-32 and Sulfur-35					

- 13. 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.
- 14. The licensee is authorized to hold radioactive material with a physical half-life of less than or equal to 120 days for decay-in-storage before disposal in ordinary trash provided:
 - A. Before disposal as ordinary trash, byproduct material shall be surveyed at the container surface with the appropriate meter set on its most sensitive scale and with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.
 - B. A record of each disposal permitted under this License Condition shall be retained for 3 years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.
- 15. This license does not authorize commercial distribution of licensed material.
- 16. The licensee shall not use licensed material in or on human beings except as provided otherwise by specific condition of this license.
- 17. The licensee shall not use licensed material in field applications where activity is released except as provided otherwise by specific condition of this license.

NRC FORM 374A	U.S. NUCLEAR REGULATORY COMMISSION		PAGE	3	of	3	PAGES	
MATERIALS LICENSE SUPPLEMENTARY SHEET		License Number 24-32339-01						
		Docket or Reference Numb 030-35805	ber					
		Amendment No. 13				-		
 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." 								
19. In addition to the possession limits in Condition 8, the licensee shall further restrict the possession of unsealed licensed material or readily dispersible source material to quantities less than 10 ⁴ times the applicable limits in Appendix B of 10 CFR Part 30, as specified in 10 CFR 30.35.								

- 20. 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 unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
 - A. Application dated February 24, 2012.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

MAR 1 3 2012 Date

By

Toye L. Simmons / Materials Licensing Branch Region III