	\$150 M		
NR(FORM 374	FORM 374 . NUCLEAR REGULATORY COMMISSION PAGE 1 OF 5 PAGES Amendment No. 18		
	MATERIALS L	ICENSE CORRECTED COPY NO. 1	
of Federal Regulations, Chapter I, Parheretofore made by the licensee, a lice source, and special nuclear material deliver or transfer such material to personall be deemed to contain the conditions.	rts 30, 31, 32, 33, 34, 35, 36, 39 inse is hereby issued authorizing esignated below; to use such ma ons authorized to receive it in account ons specified in Section 183 of t	eorganization Act of 1974 (Public Law 93-438), and Title 10, Code 3, 40, and 70, and in reliance on statements and representations the licensee to receive, acquire, possess, and transfer byproduct, aterial for the purpose(s) and at the place(s) designated below; to cordance with the regulations of the applicable Part(s). This license the Atomic Energy Act of 1954, as amended, and is subject to all numission now or hereafter in effect and to any conditions specified	
License)	In accordance with facsimile dated	
		November 4, 2002,	
1. Dow AgroSciences		3. License number 13-26398-01 is amended	
		in its entirety to read as follows:	
2. 9330 Zionsville Road	- 0	4. Expiration date March 31, 2009	
306 Building, E2-1010	Y	5. Ocket No. 030-32714	
Indianapolis, IN 46268-105		Reference Ne.	
Byproduct, source, and/or special n material	uclean 7. Chemical and/or phy	sical form 8 Maximum amount that licensee may possess at any one time under this	
		license	
A.	J N. 22. X	·	
·.		\ \	
		· \ \\	
		- 111	
B.		I A c	
C.		·	
D.	·	· · · · · · · · · · · · · · · · · · ·	
E.			
F.			
G.			
<u> </u>			
H.			
		information in this record was deleted in accordance with the Freedom of Information	
		Art exemptions	
,		FOIA. 2005-0080	
'-	•	_ /	
.1			

\$15

NRC FORM 374A	U.S. NUCLEAR REGULATORY COMMISSION	License Numb
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 030-32714
٠		Amendment No. 18

9. Authorized Use:

- A. through G. Research and development as defined in Section 30.4 of 10 CFR Part 30 and distribution of research samples to specific licensees, as described in application dated September 4, 1997 and letter dated September 22, 1997.
- H. For use in analytical and measuring devices registered with the NRC pursuant to Section 32.210 of 10 CFR Part 32 or an agreement state.
- I. For possession incident to disposal as waste products generated from studies involving is labelled pesticide formulations conducted atport AgroSciences' U.S. field research stations and/or U.S. contract laboratories.

CONDITIONS

10. A. Licensed material shall be used at/Dow AgroSciences facilities located at 9330 Zionsville Road, Indianapolis, Indiana, which have been evaluated and approved by the licensee's Radiation Safety Committee.

В.

jin accordance with Jetters dated September 10, 1999 and May 3, 2000.

- 11. The Radiation Safety Officer for this license is Amy Jo Smith.
- 12. A. Licensed material shall only be used by, or under the supervision of, individuals designated by the Radiation Safety Committee, Beth A. Swisher, Ph.D., Chairperson. The licensee shall maintain records of individuals designated as users for 3 years after the individual's last use of licensed material.
 - B. Individuals authorized to use licensed material by the Radiation Safety Committee, shall have as a minimum, training equivalent to Section 33.15(b) of Part 33 of 10 CFR.
- 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. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.
 - B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.

,	NRC FORM 374A	U.S. NUCLEAR REGULATORY COMMISSION	PAGE 3 of 5 PAGES
	•		License Number 13-26398-L.
		MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 030-32714
			Amendment No. 18
			CORRECTED COPY No. 1
			<u> </u>

- C. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
- D. Sealed sources need not be leak tested if:
 - (i) they contain only hydrogen-3; or
 - (ii) they contain only a radioactive gas; or
 - (iii) the half-life of the isotope is 30 days or Ress or
 - (iv) they contain not more than 100 microcuries of beta and or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
 - they are not designed to emit alpha particles, 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. Noisealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- E. The leak test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. It the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region III, 801 Warrenville Road, Lisle, Illinois, 60532-1351, Chief, Nuclear Materials Safety Branch. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.
- F. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to perform such services.
- 15. The licensee shall conduct a physical inventory every 6 months to account for all 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 quantities and kinds of byproduct material, manufacturer's name and model numbers, location of the sources and/or devices, and the date of the inventory.

NRC FORM 374A	U.S. NUCLEAR REGULATORY COMMISSION	PAGE 4 of 5 PAGES
,	!	13-26398 1
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 030-32714
		Amendment No. 18
	•	CORRECTED COPY No. 1

- 16. A. Detector cells containing a titanium tritide foil or a scandium tritide foil shall only be used in conjunction with a properly operating temperature control mechanism which prevents the foil temperature from exceeding that specified by the manufacturer and approved by U.S. Nuclear Regulatory Commission.
 - B. When in use, detector cells containing a titanium tritide foil or a scandium tritide foil shall be vented to the outside.
- 17. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
- 18. The licensee is authorized to hold radioactive material with a physical half-life of less than 90 days for decay-in-storage before disposal in ordinary trash provided:
 - A. Radioactive waste to be disposed of in this manner shall be held for decay a minimum of 10 half-lives.
 - B. 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.
 - C. A record of each disposal permitted under this ligense 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.
- 19. This license does not authorize commercial distribution of licensed material.
- 20. The licensee shall not use licensed material in or on human beings except as provided otherwise by specific condition of this license.
- 21. The licensee shall not use licensed material in field applications where activity is released except as provided otherwise by specific condition of this license.
- 22. 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."
- 23. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of unsealed licensed material or readily dispersible source material to quantities less than 10⁵ times the applicable limits in Appendix B of 10 CFR Part 30, as specified in 10 CFR 30.35.