NRC FORM 374 7.34)	U.S. NUCLEAR REGULATORY COMMISSION PAGE 1 OF PA			
		LS LICENSE		
Pursuant to the Atomic Energy Act of 1954, as a Federal Regulations, Chapter I, Parts 30, 31, 32, 3 by the licensee, a license is hereby issued authoriz material designated below; to use such material person, authorized to receive it in accordance with specified in Section 183 of the Atomic Energy A Nuclear Regulatory Commission now or hereafte	for the purpose(s) and the regulations of the Act of 1954, as amen-	and 70, and in reliance on st ceive, acquire, possess, and t d at the place(s) designated e applicable Part(s). This lic ded, and is subject to all an	atements and representations heretofore mad transfer byproduct, source, and special nuclea below: to deliver or transfer such material t ense shall be deemed to contain the condition indicable rules, regulations, and orders of th	
Licensee Cintichem, Inc.		?. License Number	SNM-639 Amendment No. 10	
 Sterling Forest Research Tuxedo, NY 10987 	Center	4. Expiration Date	December 15, 1996	
		5. Docr et or Reference No.	070-00687	
b. Byproduct, Source, and/or Special Nuclear Material	7. Chemical and Form	d/or Physical	 8. Maxime Amount that Licensee May Possess at Any One Time Under This License 	
A. Uranium-235 (≥ 20% enriched)	 A. Any form B. Encapsulated Sources 		A. 350 gm of contained U-235	
B. Plutonium			B. 80 gm Pu-Be neutron source	
C. Any Radioactive Material between Atomic Nos. 3 and 83 inclusive mingled with SNM and authorized for possession under New York State byproduct license No. 729-0322	C. Any			
Authorized Use: For possess in Tuxedo, NY. Use as nece laboratory building and was carried out under license S	ssary in the c te storage bu	decommissioning of	f the Cintichem, Inc. facili f the reactor building, hot associated with the operatio	
10. Conditions:				
A. Licensed material shall located on Long Meadow R	be possess, u	sed and stored at	the Cintichem, Inc. facilit	

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NRC F (7-94)	ORM 374A	U.S. NUCLEAR REGULATORY COMM	ISSION PAGE 2 OF 4 PAGES License Number SNM-639
		MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 070 - 00687
			Amendment No. 10
10.	Condition	S:	
Β.	Licensed Project M	material shall be used or under th anager.	ne supervision of the decommissioning
C.	conduct i procedure The U.S. I statement	ts program in accordance with the s contained in the documents, incl Nuclear Regulatory Commission's re	uding all enclosures. listed below. egulations shall govern, unless the in the licensee's application and
	2. Ji	tober 19. 1990. 18. anuary 11. 1991. 19. anuary 14. 1991. 20.	

10. Conditions:

- B. Licensed material shall be used or under the supervision of the decommissioning Project Manager.
- C. 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 all 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.

1. October 19, 1990. 2. January 11, 1991. 3. January 14, 1991. 4. January 28, 1991. 5. February 19. 1991. 6. March 8. 1991. 7. April 17. 1991. 8. April 24. 1991. 9. May 21. 1991. 10. June 25, 1991. 11. July 17. 1991. 12. August 6. 1991. 13. October 2. 1991. 14. january 8. 1992. 15. February 19. 1992. 16. July 15. 1992. 17. October 22. 1992.

18. November 6, 1992, 19. December 15, 1992. 20. July 15. 1993. 21. August 26, 1993. August 27, 1993. 22. 23. October 1. " 24. January 3. wa4. 25. February 1, 1994. 26. March 31, 1994. 27. October 17. 1994. 28. December 8, 1994. 29. December 16. 1994. 30. November 14, 1996. 31. February 20, 1997. December 3, 1997, and 32. 33. December 4, 1997.

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In addition to the statements, representations and procedures made in the D. aforementioned letters, the licensee will conduct decommissioning operations. in accordance with the statements, representations and procedures outlined in the licensee's request to renew license SNM-639 dated September 15, 1989, and letter dated June 29, 1990, unless the statements, representations and procedures, in the aforementioned letters, are not appropriate to the decommissioning activities or the Commission's regulations are more restrictive.

The licensee may make minor changes to the conditions described in this E. license, without a license amendment, provided that:

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		Lic nse Number SNM-639 Dockei or Reference Nuiaber 070-00687 Amendment No. 10		
	ATERIALS LICENSE UPPLEMENTARY SHEET			

- 1. These changes do not involve an unreviewed safety question:
- 2. The changes do not cause a significant increase in radiation exposure to employees or:
- 3. The changes do not cause a decrease in the protection of the public health and safety and the environment offered by the existing license condition.

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A change shall be deemed to involve an unreviewed safety question, if an accident analysis for the change: (i) results in consequence values exceeding the values of the accident analysis described in the licensee's decommissioning plan, as supplemented, or the probability of occurrence for the types of events there evaluated is judged to increase; (ii) reveals a possibility for an accident of a different type, than previously evaluated or; (iii) the margin of safety defined in the basis for any technical specification is reduced.

Prior to initiating any changes to the license conditions allowed under Condition E. the licensee shall prepare a safety evaluation of the effect of the change. This evaluation shall be reviewed and approved by the licensee's Nuclear Safeguards Committee and, as appropriate, the licensee's Radiation Safety/ALARA Committee, and shall provide the basis for determining that the change will not involve an unreviewed safety question, a significant increase in radiation exposure to employees or a decrease in the protection of the public health and safety and the environment offered by the existing license condition. Records of evaluations and approvals of changes shall be maintained by the licensee.

- F. The licensee shall decontaminate the reactor building, hot laboratory building, waste building and areas associated with the operations carried out under license SNM-639 to the unrestricted release criteria outlined i Table 5 of Section 38.29 of 12 NYCRR 38. In those instances where NRC and New York State criteria differ, the more restrictiv: criteria will apply. In addition to the criteria outlined above, the licensee shall ensure that:
 - 1. Prior to demolition all buildings and structures exhibit exposure rates of less than 5 μ R/hr above background at one meter:
 - 2. The results of all soil characterization data are submitted to, approved by, and verified by NRC prior to release of the site. NRC's evaluation will ensure that exposure to this soil will not result in a dose to the

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	MATERIAL CLICENCE	License Number 639		
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public in excess of the criteria established in Condition G. following unrestricted release of the site.

- G. The licensee shall develop residual soil contamination limits that the licensee intends to use as unrestricted release criteria. Those criteria will be based on the principle that residual contamination shall be as low as reasonably achievable (ALARA). The licensee shall submit these limits to NRC for evaluation, within 6 months of the effective date of this amendment. This deadline may be extended by the Commission. if the licensee demonstrates good cause based on technical feasibility (including circumstances that arise which were not foreseeable or were beyond the control of the licensee). Upon review and approval by NRC, the licensee shall ensure that all soil remaining on-site at the completion of the decommissioning operations is within these criteria.
- H. Deleted.
- The licensee shall maintain records of information important to safe and effective decommissioning at the Cintichem facility located on Long Meadow Road in Tuxedo. NY per the provisions of 10 CFR §70.38.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: February 2, 1998

John W. N. Hickey, Chief Low-Level Waste and Decommissioning Projects Branch Division of Waste Management Office of Nuclear Material Safety and Safeguards

SNM-639 070-00687 Amendment No. 10

public in excess of the criteria established in Condition G. following unrestricted release of the site.

G. The licensee shall develop residual soil contamination limits that the licensee intends to use as unrestricted release criteria. Those criteria will be based on the principle that residual contamination shall be as low as reasonably achievable (ALARA). The licensee shall submit these limits to NRC for evaluation, within 6 months of the effective date of this amendment. This deadline may be extended by the Commission, if the licensee demonstrates good cause maded on technical feasibility (including circumstances that arise which we enot foreseeable or were beyond the control of the licensee). Upon review and approval by NRC, the licensee shall ensure that all soil remaining on-site at the completion of the decommissioning operations is within these criteria.

H. Deleted.

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 The licensee shall maintain records of information important to safe and effective decommissioning at the Cintichem facility located on Long Meadow Road in Tuxedo, NY per the provisions of 10 CFR §70.38.

> FOR THE NUCLEAR REGULATORY COMMISSION [Original signed by]

Date: February 2, 1998 By:

John W. N. Hickey, Chief Low-Level Waste and Decommissioning Projects Branch Division of Waste Management Office of Nuclear Material Safety and Safeguards

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