NRC	FORM	374
(10-8	39)	

U.S. NUCLEAR REGULATORY COMMISSION

PAGE 1 OF 4 PAGES

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, 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.

L					· · · · · · · · · · · · · · · · · · ·
		Licensee		·	
1.	Cint	ichem, Inc.		3. License number	SNM-639 Amendment No. 6
2.		ling Forest Research	Center	4. Expiration date	December 15, 1996
		,		5. Docket or Reference No.	70-687
6.		duct, source, and/or l nuclear material	7. Chemical ar	nd/or physical	8. Maximum amount that licensee may possess at any one time under this license
	Α.	Uranium- 235 (≥ 20% enriched)	A. Any fo	rm	A. 350 gm. of contained U-235
	В.	Plutonium	B. Encaps Source		B. 80 gm. Pu-Be neutron source
	c.	Any Radioactive Material between Atomic Nos. 3 and 83 inclusive mingle with SNM and author for possession unde New York State byproduct license No. 729-0322	ized		

- 9. Authorized Use: For possession and storage at the site of the Cintichem, Inc. facility in Tuxedo, NY. Use as necessary in the decommissioning of the reactor building, hot laboratory building and waste storage building and areas associated with the operations carried out under license SNM-639.
- 10. Conditions:
 - A. Licensed material shall be possessed, used and stored at the Cintichem, Inc. facility located on Long Meadow Road in Tuxedo, NY.
 - B. Licensed material shall be used or under the supervision of the decommissioning Project Manager.

NRC Form	374A
(5-84)	

PAGE	2	OF	4	PAG

MATERIALS LICENSE SUPPLEMENTARY SHEET License number SNM-639, Amendment No. 6 Docket or Reference number

С. 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 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.

EAR REGULATOR October 19, 1990, 1. January 11, 1991, January 14, 1991, 2. 3. January 28, 1991 4. 5. February 19, 1991,

- March 8, 1991 6. April 17, 1991 7.
- April 24, 1991. 8. 9. May 21, 1991.
- June 25, 1991, 10.
- July 17, 1991, 11. 12. August 6 1991
- 13. October 2, 1991 January 8 14. 1992
- In addition to the statements, representations and procedures made in the aforement oned letters the licensee will conduct decommissioning operations in accordance with the statements, representations and procedures outlined in the licensee of request to renew license SNM-639 dated September 15, 1989, and letter dated June 29, D. 1990 unless the statements, representations and procedures in the aforementioned letters are not appropriate to the decommissioning
- The licensee may make minor changes to the conditions described in Ε. this license, without a license amendment, provided that:

activities or the Commission regulations are more restrictive.

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

NRC	Form	37	44
(5-84)		

.S. TELEAR REGULATORY COMMISSION

PAGE 3 OF 4 PAGES
License number

SNM-639, Amendment No. 6

Docket or Reference number

MATERIALS LICENSE SUPPLEMENTARY SHEET

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.

70-687

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 decontaining and areas associated with the building, wasterstorage building and areas associated with the operations carried out under locense SNM-639 to the unrestricted release criteria specified in NRC Regulatory Guide 1.86 and New York State criteria outlined in lable 5 of Section 38.29 of 12 NYCRR 38. In those instances where NRC and New York State criteria differ the more restrictive criteria will apply. In addition to the criteria outlined above the dicensee shall ensure that:
 - 1. Prior to demolition all buildings and structures exhibit exposure rates of less than 5 uR/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 public in excess of the criteria established in Condition G, following unrestricted release of the site.

				74O+O	0.000		
NRC Form 374A (5-84)	U.S. NUCLEAR REGULATORY COMMISSION		PAGE	4	OF	4	PAGES
(5-84)		License num					
MATERIALS LICENSE	MATERIALS LICENSE	SNM-639,	Amendmen	t No.	. 6		
	SUPPLEMENTARY SHEET	Docket or Refere	nce number				
•	SUPPLEMENTANT SHEET	70-687	-				

- The licensee shall develop residual soil contamination limits that the licensee intends to use as unrestricted release criteria. 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.
- As outlined in the licensee's decommissioning plan, as supplemented, Η. the licensee shall complete the decommissioning within 36 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 of were beyond the control of the licensee) or risk reduction considerations.
- 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.

REGULATORY COMMISSION

Austin, Chief

Decommissioning and Regulatory

Issues Branch

Division of of Low-Level Waste Management and Decommissioning Office of Nuclear Material Safety and Safequards Washington, DC 20555

- G. The licensee shall develop residual soil contamination limits that the licensee intends to use as unrestricted release criteria. These 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. As outlined in the licensee's decommissioning plan, as supplemented, the licensee shall complete the decommissioning within 36 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) or risk reduction considerations.
- I. 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		4 53	
	(3)	(D)	

John H. Austin, Chief

Decommissioning and Regulatory
Issues Branch

Division of of Low-Level Waste
Management and Decommissioning
Office of Nuclear Material Safety
and Safeguards

Washington, DC 20555

Distribution: RBangart NOrlando PDR YES ACNW YES SUBJECT ABSTRA	Central File# PLohaus JCopeland NO NO CT: CINTICHEM	NMSS r/ JSurmei TMichae Category: P	er ls	LLDR r/f TJohnson Dmartin ary or	JAust MWebe T. Dra CF Only	
OFC :LLDR	:LLDR 40 :LLDI	LLDDY:	:	:	:	:
NAME: NO Tando	:JCopeland:TCJ	ohnson:JAusti	n :	•	:	:
DATE: [/ [6/92	: 1/15/92 : [/	16/92: 1/16/	92 :	:	:	. :
DOC: 70-687		OFFICIAL REC	ORD COP	Υ		