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MATERIALS LICENSE

	ions specified below. Licensee		
1.	Cintichem, Inc.	3. License number	SNM-639 as renewed Amendment No. 5
2	Sterling Forest Research Center		FEB 2 3 1990
2.	Tuxedo, New York 10987	4. Expiration date	October 31, 1989
		5. Docket or Reference No.	70-687
	product, source, and/or 7. Chemical cial nuclear material form	and/or physical	8. Maximum amount that licensee may possess at any one time under this license
A. B.	Uranium enriched in the B. Any U-235 isotope (> 20 percent enriched) mate	form (may be in form of irradiated rial with associated	A. 10 grams B. 50 kilograms of contained U-235
	Uranium enriched in the B Any U-235 isotope (> 20 percent enriched) mate	form (may be in form of irradiated	A. 10 grams B. 50 kilograms of contained U-235
В.	Uranium enriched in the B Any U-235 isotope (> 20 percent enriched) mate	form (may be in form of irradiated rial with associated oduct material)*	A. 10 grams B. 50 kilograms of contained U-235 C. 2 milligrams of Pu-238
В.	Uranium enriched in the B Any U-235 isotope (> 20 percent enriched) mate	form (may be in form of irradiated rial with associated oduct material)*	A. 10 grams B. 50 kilograms of contained U-235 C. 2 milligrams of Pu-238 10 grams Pu-239
B. C. *SN pr	Uranium enriched in the B Any U-235 isotope (> 20 percent enriched) mate	form (may be in form of irradiated irial with associated oduct material)* psulated Sources	A. 10 grams B. 50 kilograms of contained U-235 C. 2 milligrams of Pu-238 10 grams Pu-239 2 milligrams Pu-24 80 grams Pu-Be neutron source and 83 inclusive
*SN pr Li **U	Uranium enriched in the B. Any U-235 isotope (> 20 percent enriched) Plutonium C. Enca M mingled with radioactive material be rovided possession of the latter has be	form (may be in form of irradiated irial with associated oduct material)* etween Atomic Nos. 3 ien authorized under is this condition, is at the site, include	A. 10 grams B. 50 kilograms of contained U-235 C. 2 milligrams of Pu-238 10 grams Pu-239 2 milligrams Pu-24 80 grams Pu-Be neutron source and 83 inclusive New York State limited such that the uding that possessed
*SN pr Li **U	Uranium enriched in the B. Any U-235 isotope (> 20 percent enriched) Plutonium C. Enca M mingled with radioactive material be rovided possession of the latter has be cense No. 729-0322. Unself-protected U-235, possessed under cotal quantity of unself-protected U-23	form (may be in form of irradiated irial with associated oduct material)* etween Atomic Nos. 3 ien authorized under is this condition, is at the site, include	A. 10 grams B. 50 kilograms of contained U-235 C. 2 milligrams of Pu-238 10 grams Pu-239 2 milligrams Pu-24 80 grams Pu-Be neutron source and 83 inclusive New York State limited such that the uding that possessed

^{*}SNM mingled with radioactive material between Atomic Nos. 3 and 83 inclusive provided possession of the latter has been authorized under New York State License No. 729-0322.

^{**}Unself-protected U-235, possessed under this condition, is limited such that the total quantity of unself-protected U-235 at the site, including that possessed under Reactor License No. R-81, does not exceed 4.99 kilograms.

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MATERIALS LICENSE SUPPLEMENTARY SHEET

Authorized Use

For use in accordance with statements, representations and conditions contained in Part I of the revised application (Consolidated Application) submitted on June 6, 1984, and as amended on July 16, 1984; September 6, 1984; August 20, 1985; November 12, 1987; April 18, 1989; and February 22, 1990; except as modified by the conditions of this license. The effective pages of Part I of the application are

- 10. Insofar as applicable to radioactive materials subject to the authorities of this
- June 6, 1984, and as amended on July 16, 1984; September 6, 1984; August 20, 1985; November 12, 1987; April 18, 1989; and February 22, 1990; except as modified by the conditions of this license. The effective pages of Part I of the application are identified in Appendix A of this license.

 Insofar as applicable to radioactive materials subject to the authorities of this license and NRC regulations, the release of facilities, equipment and material from Building 2 to offsite, or from controlled to uncontrolled areas onsite, shall be in accordance with Appendix B (attached), "Guidelines for Decontamination of facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for Byproduct, Source, or Special Nuclear Material," dated July 1982. Records of the contamination survey and the final disposition of any equipment shall be kept for inspection by the NRC.

 Upon completion of the decontamination of facilities in accordance with \$70.38 of Title 10 of the Code of Federal Regulations, the licensee shall submit with the report required by that regulation information that identifies all facilities where radioactive materials were used and stored, or disposed on the site. The report shall briefly describe operations conducted and radioactive materials used in the facilities and shall assess the results of the decontamination activities. The report shall prioride the basis for unrestricted release of the facilities and instrumentation used, and shall include final contamination survey data for the facilities, and grounds.

 In addition to the reporting requirements specified on page 1.8-1 of the application, the licensee shall provide a copy of any changes to the Radiological Contingency Plan to the Director, Division of Industrial and Medical Nuclear Safety, NRC.

 The licensee shall provide to the NRC copies of its annual report summarizing the results of analyses of radiological environmental monitoring samples. This report shall be sent to the Director, Division of Industrial and Medical Nu 11. Upon completion of the decontamination of facilities in accordance with §70.38 of
- 12. In addition to the reporting requirements specified on page I.8-1 of the application,
- 13. The licensee shall provide to the NRC copies of its annual report summarizing the

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MATERIALS LICENSE SUPPLEMENTARY SHEET

14. Special Nuclear Material, packaged in accordance with Condition 4.2.7(b), Part 1 of the Consolidated Application, may be stored under water in the reactor storage pool in any quantity provided there is a 12-inch minimum water thickness between each container or containers stacked end to end. Spent fuel racks, packaged in accordance with Section 5.6.2 of Reactor License No. R-81, may be stored alongside the SNM material provided there is a 6-inch minimum center-to-center distance between the fuel rods.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Original Signed by Jerry J. Swift

By: Charles J. Haughney

Mivision of Industrial and Medical Nuclear Safety, NMSS Washington, DC 20555

Amendment No. 5 23 -900 Date: