



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555

November 4, 1991

DOCKET NO. 50-54 and 70-687

MEMORANDUM FOR:

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SUBJECT:

NOTICE OF ISSUANCE OF ENVIRONMENTAL ASSESSMENT AND FINDING OF  
NO SIGNIFICANT IMPACT - Cintichem, Inc. - Order authorizing  
dismantling and disposition of component parts

One signed original of the *Federal Register* Notice identified below is enclosed for your transmittal to the Office of the Federal Register for publication. Additional conformed copies ( 05 ) of the Notice are enclosed for your use.

- Notice of Receipt of Application for Construction Permit(s) and Operating License(s).
- Notice of Receipt of Partial Application for Construction Permit(s) and Facility License(s): Time for Submission of Views on Antitrust Matters.
- Notice of Consideration of Issuance of Amendment to Facility Operating License. (Call with \_\_\_ -day insert date).
- Notice of Receipt of Application for Facility License(s); Notice of Availability of Applicant's Environmental Report; and Notice of Consideration of Issuance of Facility License(s) and Notice of Opportunity for Hearing.
- Notice of Availability of NRC Draft/Final Environmental Statement.
- Notice of Limited Work Authorization.
- Notice of Availability of Safety Evaluation Report.
- Notice of Issuance of Construction Permit(s).
- Notice of Issuance of Facility Operating License(s) or Amendment(s).
- Order.
- Exemption.
- Notice of Granting Exemption.
- Environmental Assessment.
- Notice of Preparation of Environmental Assessment.
- Receipt of Petition for Director's Decision Under 10 CFR 2.206.
- Issuance of Final Director's Decision Under 10 CFR 2.206.
- Other: See above subject

Enclosure:  
As stated

Contact:  
Phone: EHylton

x21129

*Memo 2*

OFFICE	PDNP:LA					
SURNAME	EHylton					
DATE	11/4/91					

UNITED STATES NUCLEAR REGULATORY COMMISSIONCINTICHEM, INC.DOCKET NOS. 50-54 AND 70-687NOTICE OF ISSUANCE OF ENVIRONMENTAL ASSESSMENT AND  
FINDING OF NO SIGNIFICANT IMPACT

The U.S. Nuclear Regulatory Commission (the Commission) is considering the issuance of an order and a license amendment authorizing decommissioning of those areas of the Cintichem, Inc., facility located in Tuxedo, New York subject to regulation by the Commission. The decommissioning involves dismantlement and decontamination of the Reactor Building, Laboratory/Hot Cell Building and Waste Storage Building.

Description of Proposed Action

The proposed action is the issuance of a License Amendment and Order authorizing the licensee to perform decommissioning activities at Cintichem's facility in Tuxedo, New York as requested by Cintichem in their application dated October 19, 1990, as supplemented. The purpose of the proposed decommissioning is limited to the removal of radioactive components and contamination from the Reactor, Laboratory/Hot Cell and Waste Storage Buildings and the surrounding areas, and the termination of the NRC licenses associated with the operations carried out in these areas. At the completion of the decommissioning activities and after verification by the Commission that residual radioactivity levels have been met, the buildings and surroundings areas will be released for unrestricted use.

The buildings and associated equipment and components will be disassembled and either decontaminated or sent to a radioactive waste disposal facility. Decontamination will be accomplished by cleaning or removal of the contaminated structural components and the remaining structures will be razed or buried in place.

#### Environmental Impacts

The NRC staff has reviewed the proposed decommissioning and its effect on the environment. To document its review, the staff has prepared an Environmental Assessment (EA). The EA considered the radiological and non-radiological impacts associated with the proposed action and, based on the fact that all proposed operations and radiological control procedures are carefully planned and controlled, determined that the exposures to personnel and the public were within the limits of 10 CFR Part 20 and are as low as reasonably achievable (ALARA).

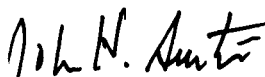
Based on the review of the specific proposed activities associated with the dismantling and decontamination of the Cintichem facility, the staff has determined that there will be no significant increase in the amounts of effluents that may be released offsite, and no significant increase in individual or cumulative occupational or population radiation exposure.

#### Finding of No Significant Impact

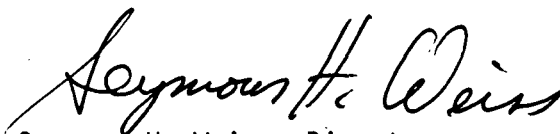
The staff has reviewed the proposed decommissioning, relative to the requirements set forth in 10 CFR Part 51. Based upon the Environmental Assessment, the staff concluded that there are no significant environmental impacts associated with the proposed action and that the proposed action will not have a significant effect on the quality of the human environment. Therefore, the Commission had determined, pursuant to 10 CFR 51.31, not to prepare an environmental impact statement for the proposed amendment. For

further details with respect to this action, see: (1) the licensee's application for authorization to decommission the facility, dated October 19, 1990, as supplemented January 11, 14, 28, February 19, March 8, April 24, May 21, June 25, July 17, August 6, and October 2, 1991; (2) the Commission's related Safety Evaluation Report; and (3) the Environmental Assessment, dated September 1991. These documents are available for public inspection at the Commission's Public Document Room, 2120 L Street, N.W., Washington, D.C. 20555. Copies of items (2) and (3) may be obtained upon request addressed to the U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Director, Division of Advanced Reactors and Special Projects.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION



John H. Austin, Chief  
Decommissioning and Regulatory  
Issues Branch  
Division of Low-Level Waste Management  
and Decommissioning  
Office of Nuclear Material  
Safety and Safeguards



Seymour H. Weiss, Director  
Non-Power Reactors, Decommissioning and  
Environmental Project Directorate  
Division of Advanced Reactors  
and Special Projects  
Office of Nuclear Reactor Regulation

Date: November 4, 1991