

CINTICHEM, INC.

P.O. BOX 816  
TUXEDO, NEW YORK 10987 (914) 351-2131

August 12, 1992

Mr. Dominick Orlando  
U.S. Nuclear Regulatory Commission  
Division of Low Level Waste Management  
and Decommissioning, NMSS  
Decommissioning and Regulatory Issues Branch  
Washington, DC 20555

Dear Mr. Orlando:

Ref: (a) USNRC License, SNM639 Amendment #6  
dated January 16, 1992 (Docket 70-687)  
(b) Cintichem Letter dated July 15, 1992

License condition G of the above referenced SNM639 license amendment required Cintichem, Inc. to propose acceptance criteria for residual soil contamination for termination of the subject license. These criteria were derived under the principals of ALARA and were conservatively based on calculated and measured doses to any future residents on site who derived their food and water from the site.

As an adjunct to the basis for the proposed criteria, a ground-water flow model has been derived that is described in the enclosed report entitled "Ground-Water Flow Modeling of the Fractured Bedrock System at the Cintichem Facility, Tuxedo, New York".

The model may be used to estimate further reductions to the calculated and measured doses that were the bases for the acceptance criteria proposed in reference (b) as a function of distance from the decommissioned area on site.

Very truly yours,

*J. J. McGovern*  
J. J. McGovern  
President/Plant Manager

JJMcG/bjc

Enclosure

9208170198 920812  
PDR ADDCK 07000687  
B PDR

JJM/128.92B

*Change  
Delete: Copeland, J.*

*Gr. Encl.*

*NHLD 1/1*

U.S. NUCLEAR REGULATORY COMMISSION  
AUGUST 12, 1992  
PAGE 2

cc: U.S. Nuclear Regulatory Commission  
Document Control Desk  
Ted Michaels - USNRC  
Barbara Youngberg - NYSDEC  
Dr. Paul Merges - NYSDEC  
Director, Technical Development Programs  
State of New York Energy Office  
Ava Gartner - Berle, Koss and Case  
Donald E. Erb - USDOE  
Mr. Peter Blood - NYSSLWG  
Michelle Landis - Oak Ridge Univ.  
Dr. Kasik - NYSDOL  
Paul Fox - American Nuclear Insurers  
Thomas F. Dragoun - USNRC  
Annette Dorozynski - Town of Tuxedo  
Ken Magar - Town of Tuxedo