

CINTICHEM, INC.

P.O. BOX 816

TUXEDO, NEW YORK 10987 (914) 351-2131

February 19, 1992

Mr. N. Orlando - M.S. 5-E-4  
U. S. Nuclear Regulatory Commission  
1 White Flint North  
11555 Rockville Pike  
Rockville, MD 20852

Dear Mr. Orlando:

REFERENCE: Docket 50-54 and 70-687

Cintichem, Inc. is proceeding in accordance with SNM 639 license condition, to derive release criteria for residual soil contamination. We believe that, in order to provide a realistic dose pathway analysis, it will be appropriate to measure distribution coefficients for soils that exist on site. Using such variable data in the dose pathway analysis will eliminate any uncertainties associated with the default values provided in the RESRAD code.

Cintichem proposes to measure the distribution coefficient for those soils that are found in contaminated zones. Samples of soil in known or suspected contaminated zones will be taken and the distribution coefficients for each radionuclide found in each specimen will be measured according to the protocol of ASTM Standard D 4319-83.

Samples will be drawn from known or suspect areas under the plant as follows:

<u>Area</u>	<u>Sample Methods</u>	<u># of Samples</u>
Bldg. 2 Evap/Tl Rooms and Hot Cell Exhaust Duct	Drill cores from North, East, South, and West walls and the floor of the Evap/Tl rooms. Remove soil samples from outside of walls about 3' above floor level. Remove soil and bedrock (if possible) samples from beneath the floor.	Approx. 5 each

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<u>Area</u>	<u>Sample Methods</u>	<u># of Samples</u>
Bldg. 2 Hot Cell Vent Exhaust Duct	Drill a vertical hole from main floor level between the T1 room and the vent duct to a depth of about 15'. Sink a casing and remove split spoon samples at 2' intervals after contaminated zone is found. Remove bedrock sample if possible.	Approx. 3 each
Bldg. 2 Gamma Pool North Side	Drill a vertical hole from the main floor adjacent to the gamma pool North wall to a depth of about 12'. Sink a casing and remove split spoon samples at 2' intervals after the contaminated zone is found. Remove bedrock samples if possible.	Approx. 3 each
Bldg. 1 Hold Up Tank South and East Side	Drill cores from the South and East walls and remove soil from outside of each wall about 3' above floor level. Remove bedrock core sample if possible.	Approx. 3 each

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You indicated your concurrence with this general plan for developing this site specific data as we discussed it by telephone. We would appreciate any additional comments you may have as soon as possible. We intend to proceed with this sampling work as quickly as possible, in order to keep this project on schedule.

Very truly yours,



J. J. McGovern  
President/Plant Manager

JJMCG/bjc