Wisconsin Electric POWER COMPANY
231 W. MICHIGAN, P.O. BOX 2046, MILWAUKEE, WI 53201

June 3, 1983

Mr. H. R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. NUCLEAR REGULATORY COMMISSION
Washington, D. C. 20555

Dear Mr. Denton:

DOCKET NOS. 50-266 AND 50-301
CHEMICAL TEST MATRIX
POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2

A chemical test matrix was carried out in accordance with NUREG-0737, Item II.B.3, Criterion 10, to demonstrate analytical capabilities in the presence of interfering ions. The test solution was prepared with interfering ion concentrations at or above those specified in Criterion 10. An additional test solution was made with 0.6 WT% NaOH to simulate post-accident spray addition. The test was completed by April 1, 1983. The results of the chloride, boron, and pH analyses are as follows:

	STD Matrix	Lab Results	Req'd Accuracy	Acceptable (Y or N)
Cl^-	10.0 ppm	10.9 ppm	±10% (±1.0 ppm)	Yes
Boron	2140 ppm	2151 ppm	± 5% (±108 ppm)	Yes
pH (see note A)	5.5	5.67	±0.3	Yes

	NaOH Spiked Matrix	Lab Results	Req'd Accuracy	Acceptable (Y or N)
Cl^-	10.0 ppm	12.2 ppm	±10% (±1.0 ppm)	No
Boron	2140 ppm	2096 ppm	± 5% (±108 ppm)	Yes
pH	N/A	N/A	N/A	N/A

Note A: STD pH value from Westinghouse WCAP 3269-51, Figure 12.

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The chloride analyses were done by ion chromatography. We are investigating the reason for the apparent 22% discrepancy in the chloride analysis of the NaOH-spiked sample. Our preliminary investigation suggests possible chloride contamination of the NaOH. We are presently arranging for third-party confirmation and will pursue the matter until we achieve satisfactory results for this particular determination.

Very truly yours,

C. W. Fay

C. W. Fay Vice President-Nuclear Power

Copy to NRC Resident Inspector