



Commonwealth Edison
Quad-Cities Nuclear Power Station
Post Office Box 216
Cordova, Illinois 61242
Telephone 309/654-2241

BBS-73-126

June 14, 1973



Mr. John F. O'Leary, Director
Directorate of Licensing
U.S. Atomic Energy Commission
Washington, D. C. 20545

Reference: Quad-Cities Nuclear Power Station
Docket Numbers 50-254 and 50-265
DPR-29 and 30, Appendix B
Section 1.1 and 3.1.A

Dear Mr. O'Leary:

The purpose of this letter is to report chlorine residual concentrations in the discharge bay in excess of the limiting conditions for operation in the Nonradiological Technical Specifications. The limit of 0.1 ppm free and combined chlorine in the discharge bay was exceeded on several occasions during the past 30 days.

On May 14, 1973 station personnel sampled the discharge bay during a chlorination cycle. The total chlorine residual registered as high as 0.55 ppm with 390 gallons of sodium hypochlorite being injected at a fixed rate of 10 gpm. A total residual sample of about .5 ppm was also analyzed on May 16, 1973. The system was out of service for a period of about one week for a pump replacement.

On May 25, 1973, a meeting was conducted at the station with Directorate of Licensing personnel to discuss the operation of the chlorination system and Technical Specifications. As a result of this meeting we have submitted a request for a temporary Technical Specification waiver on chlorine limits in the discharge bay while conducting a special test program. The goals of this test program are outlined

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Mr. John F. O'Leary

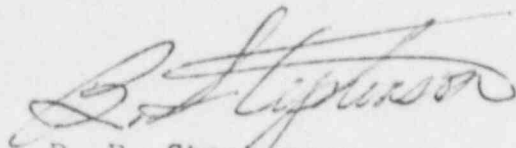
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in our request letter dated June 5, 1973 and are intended to more completely characterize the behavior of chlorine injected into the condensers in the form of hypochlorite.

Very truly yours,

COMMONWEALTH EDISON COMPANY
Quad-Cities Nuclear Power Station

A handwritten signature in cursive script, appearing to read "B. B. Stephenson".

B. B. Stephenson
Office Superintendent

BBS/zm