



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



BBS-73-66

April 14, 1973

Mr. Angelo Giambusso
Deputy Director for Reactor Projects
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. Giambusso:

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 non-radiological technical specifications. The limit of 0.1 ppm free and combined chlorine in the discharge bay was exceeded on several occasions since my last report on this subject dated March 12, 1973.

On March 13, 1973, Bio-Test Laboratories and Commonwealth Edison sampled the discharge bay and the Mississippi River downstream of the diffuser pipe. The total chlorine residual in the river was less than 0.1 ppm at all times, however, the discharge bay total chlorine residual registered as high as 0.34 ppm. A total of 440 gallons of sodium hypochlorite was injected at this time. On March 23, 1973, the entire system was taken out of service for half a day to repack Unit 2 residual sample pump. On March 27, 1973, station personnel sampled the discharge bay for free and combined chlorine during the injection of 580 gallons of sodium hypochlorite. The maximum free chlorine level was .20 ppm, while the maximum combined chlorine level was 1.6 ppm.

Reading 50-254/265

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Mr. Angelo Giambusso

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Throughout this reporting period the system was operated three times a day with the flow manually set at 10 gallons per minute. Lower chlorination flow rates have proved to be ineffective. During our April outage, both unit one and unit two condenser tubes will be cleaned and the chlorination flow rate and frequency will be re-evaluated.

Very truly yours,

COMMONWEALTH EDISON
Quad-Cities Nuclear Power Station

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

B. B. Stephenson
Plant Superintendent

BBS/zm