



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

50-254
50-265

NJK-74-259

September 3, 1974



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

Reference: Quad-Cities Nuclear Power Station
Units 1 and 2, 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 which exceeded Technical Specification Section 1.1.A, Appendix B, Non-Radiological Technical Specifications. This limit of 0.10 ppm free and combined chlorine residuals in the discharge bay was exceeded on the following dates:

<u>Date</u>	<u>Maximum Concentration, ppm</u>
8-5-74	0.20
8-23-74	0.40
8-28-74	0.57

The rerouting of the hypochlorite flush line as mentioned in previous letters apparently has not completely solved the problem of excessive chlorine residuals. It does appear, however, that it has changed the situation such that further investigations are needed to explain and control the problem. These investigations are in progress. In three of the four chlorinations monitored since the flush line was rerouted, higher residuals were found during the injection cycle than were found during the flush cycle. This is contrary to the findings prior to having the flush line rerouted, wherein higher residuals were found during the flush cycle. The actual Technical Specification limit was exceeded during both cycles on these occasions with exception of the flush cycle on August 28, 1974.

Revised Technical Specifications have been issued effective August 30, 1974 which include a higher limit for chlorine residual concentration. The occurrences reported by this

8305190182 740903
PDR ADOCK 05000254
S PDR

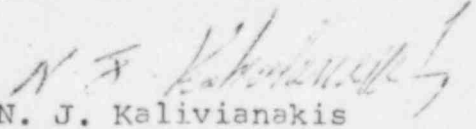
50-254, 265
ingm
9380
COPY SENT REGION

September 3, 1974

letter are within these new limits. Our investigations into the chlorination problem will continue, even though the new limits are higher, to provide assurance that we have an effective chlorination program and do not adversely affect the environs through the application of this program.

Very truly yours,

COMMONWEALTH EDISON COMPANY
Quad-Cities Nuclear Power Station


N. J. Kalivianakis
Station Superintendent

NJK/zr

cc: Region III, Directorate of Regulatory Operations
J. S. Abel