



**INDIANA & MICHIGAN POWER COMPANY**

DONALD C. COOK NUCLEAR PLANT  
P.O. Box 458, Bridgman, Michigan 49106

November 3, 1976

Mr. J. G. Keppler, Regional Director  
Office of Inspection and Enforcement  
United States Nuclear Regulatory Commission  
Region III  
799 Roosevelt Road  
Glen Ellyn, ILL. 60137

RE: Operating License DPR-58  
Docket No. 50-315  
AEO 50-315/76-06

Dear Mr. Keppler:

As required by Appendix "B" Technical Specifications Section 5.4.2.1, this report is submitted in relation to the abnormal environmental occurrence reported on October 29, 1976.

Appendix "B" Technical Specification Section 2.2.1.3 requires determination of total chlorine residual at the lake discharge each time the unit is chlorinated. On October 29, 1976 at 1000 hours, the total chlorine residual was not determined during the chlorination cycle due to the chemical technician being involved in other analysis and losing track of the time. Upon realizing the time, the technician immediately began sampling at the condenser outlet with the first sample taken at 1035 hours; however, no chlorine residual was detected.

Chlorination of the circulating water system is presently accomplished automatically twice per day (1000 and 2200 hours) on a 30 minute program, with 20 minute actual chlorine injection. Total residuals prior to this incident had been quite stable at 0.03 - 0.06 PPM at each chlorination and monitoring following the incident indicated that residuals remained in this range. From this data, it is reasonably safe to assume that the total chlorine residual during the 1000 hour chlorination period on October 29, 1976 was in the 0.03 - 0.06 ppm range. As this value is well below the maximum residual specified, it is felt that no adverse environmental impact has occurred.

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The circulating water chlorination system has been in automatic operation since February 21, 1975 with the exception of unit and chlorination equipment outages with no prior instances of this type noted; however, the incident has been discussed with all section personnel and the importance of meeting Technical Specification monitoring requirements re-emphasized.

Should you require further information, please contact me.

Sincerely,

  
R. W. Jurgensen  
Plant Manager

RWJ/lv

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