

NRC FORM 105  
(2-76)

U.S. NUCLEAR REGULATORY COMMISSION

DOCKET NUMBER

50-315

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INCIDENT REPORT

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Mr. J. G. Keppler

FROM:

Indiana & Michigan Power Company  
Bridgman, Michigan  
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DESCRIPTION

Licensee Event Report (RO 50-315/77-04) on  
7/27/77 concerning chlorine residuals taken of  
the condenser outlet showing analytical  
results greater than 0.10ppm as specified  
by Appendix B tech specs.....

PLANT NAME:

Cook Unit No. 1

RJL 8/24/77

(2-P)

ENCLOSURE

**DO NOT REMOVE**

**ACKNOWLEDGED**

NOTE: IF PERSONNEL EXPOSURE IS INVOLVED  
SEND DIRECTLY TO KREGER/J. COLLINS

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ACRS (16) SENT AS CAT. B

772360067

ENVIRO

60





**INDIANA & MICHIGAN POWER COMPANY**

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

Regulatory

File Cy.

August 1, 1977

Operating License DPR-58  
Docket # 50-315  
AEO - 50-315/77-04

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



Dear Mr. Keppler:

This report is submitted as required by Appendix B Technical Specifications, Section 5.4.2.1 in relation to the abnormal environmental occurrence reported on July 27, 1977. Chlorine residuals taken of the condenser outlet showed analytical results greater than 0.10 ppm as specified by Appendix B Technical Specification 2.2.1.2.

The circulating water chlorination system has been used once per day for several weeks in the manual chlorination mode. Throughout this time period, chlorination has been steady at 0.04 ppm chlorine residual or less. On July 27, 1977, the technician analyzing the condenser outlet for chlorine residual recorded 0.12 and 0.10 ppm chlorine residual for the times 0905 and 0910, respectively.

Immediate investigation at the chlorine house showed that the feed rate of chlorine to the chlorinator in service was in fact more than double its normal value. The probable cause for this incident was the fact that repair work had been undertaken in the chlorine house on other chlorination equipment and the feed rate controller was accidentally adjusted. The chlorinator in service has been changed and the feed rate adjusted back to its original setting. All subsequent chlorinations have remained well within specification.

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AUG 5 1977

501 6002

August 1, 1977  
Mr. J. G. Keppler  
Page Two

As the indicated residual was only slightly above specification for a brief period of time, it is felt that no adverse environmental impact will occur.

Very truly yours,

  
D. V. Shaller  
Plant Manager

/ng

cc: R. S. Hunter  
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