

50-315

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TO: J.G. KEPPLER

FROM: INDIANA & MICHIGAN PWR. CO.
BRIDGMAN, MICHIGAN
R.W. JURGENSEN

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DESCRIPTION

LTR. CONFIRMING TELEPHONE CONVERSATION CONCERNING ABNORMAL ENVIRONMENTAL OCCURRENCE OF THE TOTAL RESIDUAL CHLORINE AT THE CONDENSATE OUTLET EXCEEDING THE 0/10 ppm LIMIT.....

(2P)

PLANT NAME: COOK # 1

SAB

ENCLOSURE

ACKNOWLEDGED
DO NOT REMOVE

SAFETY

FOR ACTION/INFORMATION

ENVIRO

ASSIGNED AD:

ASSIGNED AD:

BRANCH CHIEF:

BRANCH CHIEF:

PROJECT MANAGER:

PROJECT MANAGER:

LIC. ASST. :

LIC. ASST. :

Ziemann (c)
Fletcher
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INTERNAL DISTRIBUTION

REG FILE	SYSTEMS SAFETY	PLANT SYSTEMS	SITE SAFETY &
<input checked="" type="checkbox"/> NRC PDR	HEINEMAN	TEDESCO	ENVIRO ANALYSIS
<input checked="" type="checkbox"/> I & E (2)	SCHROEDER	BENAROYA	DENTON & MULLER
<input checked="" type="checkbox"/> OELD		LAINAS	
GOSSICK & STAFF	ENGINEERING	IPPOLITO	ENVIRO TECH.
MIPC	MACARRY	KIRKWOOD	ERNST
CASE	BOSNAK		BALLARD
<input checked="" type="checkbox"/> HANAUER	SIHWEL	OPERATING REACTORS	YOUNGBLOOD
<input checked="" type="checkbox"/> HARLESS	PAWLICKI	STELLO	
			SITE TECH.
PROJECT MANAGEMENT	REACTOR SAFETY	OPERATING TECH.	GAMMILL
BOYD	ROSS	EISENHUT	STEPP
P. COLLINS	NOVAK	SHAO	HULMAN
HOUSTON	ROSZTOCZY	BAER	
PETERSON	CHECK	BUTLER	SITE ANALYSIS
MELTZ		GRIMES	VOLLMER
HELTEMES	AT & I		BUNCH
SKOVHOLT	SALTZMAN		J. COLLINS
	RUTBERG		KREGER

EXTERNAL DISTRIBUTION

CONTROL NUMBER

<input checked="" type="checkbox"/> LPDR: St Joseph, Pa.	NAT. LAB:	BROOKHAVEN NAT. LAB.
<input checked="" type="checkbox"/> TIC:	REG V.IE	ULRIKSON (ORNL)
<input checked="" type="checkbox"/> NSIC:	LA PDR	
<input checked="" type="checkbox"/> ASLB:	CONSULTANTS:	
<input checked="" type="checkbox"/> ACRS/CYS HOLDING/SENT	cat B	

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INDIANA & MICHIGAN POWER COMPANY

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

Operating License DPR-58
Docket No. 50-315
AEO 50-315/77-02

March 28, 1977

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

Regulatory

File by:



Dear Mr. Keppler:

This is to confirm our telephone call to Mr. K. Baker - NRC Region III, at 1130 hours on March 28, 1977. During that conversation, we reported that an abnormal environmental occurrence had taken place at 2105 hours on March 26, 1977, when the total residual chlorine at the condensate outlet exceeded the 0.10 ppm limit in violation of Appendix "B" Technical Specifications Section 2.2.1.2. This letter should also be construed as the written report required by Technical Specification Section 5.4.2.1.

The circulating water chlorination system was placed in service on March 22, 1977, with chlorine feed rate adjusted to maintain a total chlorine residual at 0.02 ppm. Total chlorine residual at the condenser outlet ranged from undetectable to 0.02 ppm throughout the week with the system chlorinating twice per day on a 20 minute cycle. On March 26, 1977, total chlorine residuals during the 0900 hour cycle were at 0.02 ppm; however, at the 2100 cycle, the total residual indicated 0.12 ppm at 2105 hours and immediately dropped back to 0.02 ppm at 2110 hours, remaining at this level until the end of the chlorination cycle. All chlorination cycles since this incident have indicated residuals of 0.02 ppm with the system still in automatic and at the same feed rate.

Investigation has indicated no chlorination equipment malfunction nor any other concrete evidence for this spike. The two most likely causes for this incident are (1) analytical error or (2) chlorine gas surge at the beginning of the chlorination program. As all other chlorination cycles since March 22, 1977, showed no evidence of surging at the program start and

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Mr. J. G. Keppler
March 28, 1977
Page Two

M I S E N T

the total residuals during the entire period were quite consistant in the 0.02 ppm range, analytical error is the most probable cause.

As the indicated residual was only slightly above the maximum value for a very brief time period, it is felt that no adverse environmental impact occurred.

Should you require further information, please contact me.

Sincerely,



~~So~~ R. W. Jurgensen
Plant Manager

RWJ/ng

cc: R. S. Hunter
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