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CONTROL NO: 7876

FILE: INCIDENT REPORT FILE

FROM: Iowa Elec. Light & Power Co. Palo, Iowa G.G. Hunt		DATE OF DOC 7-16-75	DATE REC'D 7-24-75	LTR XX	TWX	RPT	OTHER
TO: Mr. J. G. Keppler		ORIG 1 signed	CC	OTHER	SENT AEC PDR <u>XX</u> SENT LOCAL PDR <u>XX</u>		
CLASS	UNCLASS XXXX	PROP INFO	INPUT	NO CYS REC'D 1	DOCKET NO: 50-331		

DESCRIPTION: Ltr furnishing suppl info to A0/
50-331/75-18A involving out-of-specification
emergency service water pump flow rates....

ENCLOSURES:

Do Not Remove

ACKNOWLEDGED

PLANT NAME: Duane Arnold Plant

FOR ACTION/INFORMATION

DHL 7-30-75

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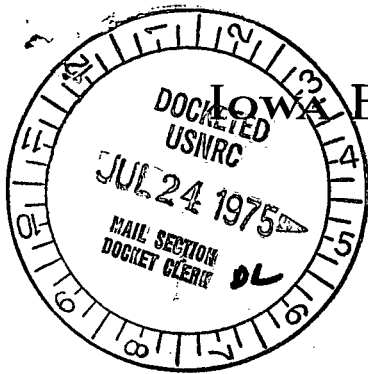
INTERNAL DISTRIBUTION

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5 - ACRS SENT TO LIC ASST S. Teets 7-30-75		
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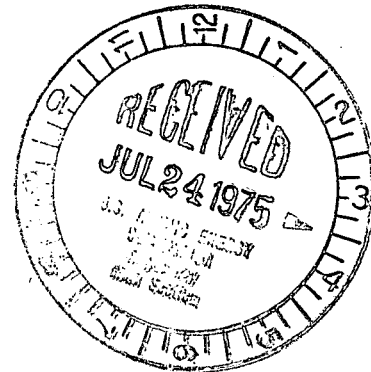
Regulatory Docket File



ELECTRIC LIGHT AND POWER COMPANY

General Office

CEDAR RAPIDS, IOWA
DUANE ARNOLD ENERGY CENTER
PALO, IOWA
JULY 16, 1975
DAEC - 75-289



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

Subject: Abnormal Occurrence No. AO 50-331/75-18A
Supplemental Report

File: A-110, A-118a

Dear Mr. Keppler:

On April 17, 1975, an abnormal occurrence report involving out-of-specification emergency service water pump flow rates was transmitted to your office. At the time the report was submitted, the analysis of the occurrence had not been completed. This letter is to advise you that the analysis is complete and information contained herein is a supplement to the "Analysis of Occurrence" section of the previous report.

During the performance of the Surveillance Test on April 27, 1975, it was determined that the flow rates for Emergency Service Water Pumps 1P99A and 1P99B were 1130 gpm and 1125 gpm (@TDH 170 ft.) respectively. The Technical Specification requirement for emergency service water pump flow is 1200 gpm (@TDH 170 ft.).

Although the emergency service water pump flows were determined to be out-of-specification during the surveillance test, a subsequent analysis has determined that the flows were more than adequate for performance of the design objective of the emergency service water system. This conclusion is based on a comparison of emergency service water cooling loads, ambient river water temperature, and test data on pump flow capabilities. During the period when the emergency service water pump flows may have been out of specification, the maximum ambient river water temperature was 85°F. The required emergency service water pump flow at 85°F ambient river water temperature, in accordance with the analysis, would have been approximately 780 gpm for each pump. The surveillance test performed on April 17, 1975 verified that each pump was capable of pumping at least 1100 gpm. Therefore, the emergency service water system was capable of performing its design function and the occurrence did not present an unsafe plant condition.

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As a result of the investigation and analysis of the occurrence, a change to the DAEC Technical Specifications was submitted to the Nuclear Regulatory Commission and subsequently approved on June 30, 1975. The change will make emergency service water pump flow specifications a function of ambient river water temperature.

It should be noted that prior to completion of the investigation of Abnormal Occurrence AO 50-331/75-18, another abnormal occurrence involving out-of-specification emergency service water pump flows occurred on June 5, 1975. (See Abnormal Occurrence Report No. AO 50-331/75-29).

This supplemental report should complete the reporting requirements concerning Abnormal Occurrence AO 50-331/75-18.

This report was reviewed and approved by the DAEC Operations Committee on July 17, 1975. The Committee concluded that the occurrence did not present a hazard to the health and safety of the public.



G. G. Hunt
Chief Engineer
Duane Arnold Energy Center

DLW/GGH/mg

cc: B. C. Rusche
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