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FILE: INCIDENT REPORT FILE

FROM: Iowa Elec. Light & Pwr. Co. Palo, Iowa G.G. Hunt		DATE OF DOC 7-17-75	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 XXX	PROP INFO	INPUT	NO CYS REC'D 1	DOCKET NO: 50-331		

DESCRIPTION: Ltr trans the following:

ENCLOSURES: Abnormal Occurrence Suppl Report
50-331/29A on 6-5-75 furn suppl info
on emergency service water pumps 1P99A &
1P99B.....

(1 Orig cy encl rec'd)

Do Not Remove

ACKNOWLEDGED

PLANT NAME: Duane Arnold Plant

FOR ACTION/INFORMATION

DHL 7-30-75

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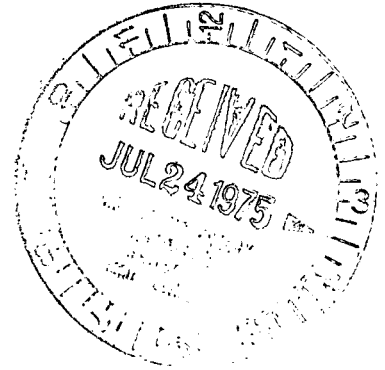
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** SEND ONLY TEN DAY REPORTS			

IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office

CEDAR RAPIDS, IOWA
DUANE ARNOLD ENERGY CENTER
PALO, IOWA
JULY 17, 1975
DAEC-75 - 290



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

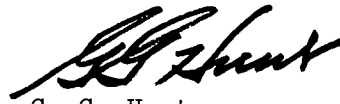
SUBJECT: Abnormal Occurrence No. AO 50-331/75-29A
Supplemental Report

FILE: A-110, A-118a

Dear Mr. Keppler:

In accordance with Appendix A to Operating License DPR-49, Technical Specifications and Bases for Duane Arnold Energy Center, please find enclosed a supplemental report on the subject abnormal occurrence. A preliminary report on the occurrence was transmitted to your office on June 13, 1975. The enclosed report is a complete report and should finalize reporting requirements with respect to the subject abnormal occurrence.

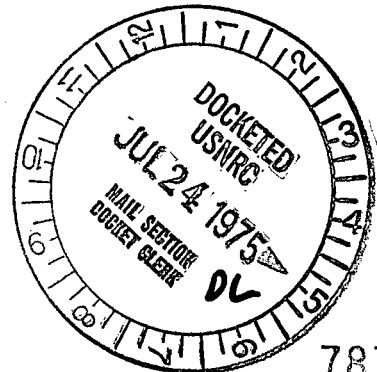
Very truly yours,

A handwritten signature in cursive script, appearing to read "G. G. Hunt".

G. G. Hunt
Chief Engineer
Duane Arnold Energy Center

DLW/GGH/mg

cc: B. C. Rusche
C. W. Sandford
J. A. Wallace
L. Liu
H. W. Rehrauer - Chairman Safety Committee
J. R. Newman
E. L. Hammond



7878

JUL 21 1975

IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office

CEDAR RAPIDS, IOWA

Subject: Abnormal Occurrence, Supplemental Report ~~Received w/ Ltr Dated~~ 7-17-75
Report Number: AO 50-331/75-29A
Report Date: July 16, 1975
Occurrence Date: June 5, 1975
Facility: Duane Arnold Energy Center

Identification of Occurrence

Emergency Service Water Pump flows out-of-specification, reportable in accordance with Appendix A to Operating License DPR-49, Specifications 1.0.4.b, 3.8.c.1 and 4.8.c.1.

Description of Occurrence

During the performance of Surveillance Test No. 48C001 - Emergency Service Water System, Emergency Service Water Pumps 1P99A and 1P99B were determined to have flows of 1160 gpm and 1170 gpm (@TDH 170 ft.) respectively. The Technical Specification Limit for Emergency Service Water Pump flow was 1200 gpm (@TDH 170 ft.).

Designation of Apparent Cause of Occurrence

The apparent cause of the occurrence was normal wear of the pump impellers. Due to erosion affects of river water, general degradation of pump performance will result to some degree.

Analysis of Occurrence

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 since the last emergency service water pump surveillance test was performed (April 1975), the maximum ambient river water temperature was 82°F. The required emergency service water pump flow at 82°F ambient river water temperature, in accordance with the analysis, would have been approximately 700 gpm for each pump. The surveillance test performed on June 5, 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.

July 17, 1975

Corrective Action

Initial corrective action involved readjustment of the impeller on Emergency Service Water Pump 1P99A to bring the pump flow with Technical Specification limits.

Also, 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 and will allow for normal pump degradation.

Conclusion

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

GGH/mg