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CONTROL NO: 4360
FILE: INCIDENT REPORT FILE

FROM: Iowa Electric Light & Power Cedar Rapids, Iowa G.G. Hunt		DATE OF DOC 4-17-75	DATE REC'D 4-21-75	LTR XX	TWX	RPT	OTHER
TO: James G. Keppler		ORIG 1 Signed	CC	OTHER	SENT AEC PDR <u>XXXXX</u> SENT LOCAL PDR <u>XXXXX</u>		
CLASS	UNCLASS XXXX	PROP INFO	INPUT	NO CYS REC'D 1	DOCKET NO: 50-331		

DESCRIPTION:

Ltr. trans the following.....

ENCLOSURES:

Abnorm. Occurr. # 75-18, on 4-7-75, concerning Emergency Service Water Pump Flow rates

(1 cy. Encl. rec'd)

PLANT NAME: Duane Arnold

FOR ACTION/INFORMATION

VCR 4-23-75

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IOWA ELECTRIC LIGHT AND POWER COMPANY

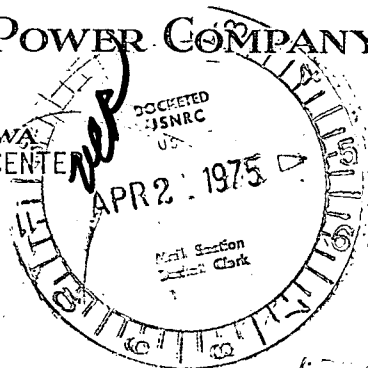
General Office

CEDAR RAPIDS, IOWA
DUANE ARNOLD ENERGY CENTER

PALO, IOWA

APRIL 17, 1975

DAEC-75-165



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

SUBJECT: Abnormal Occurrence No. A.O. 50-331/75-18
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 written report on the subject abnormal occurrence.

Mr. C. Feierabend, of your office, was notified of the abnormal occurrence on April 8, 1975.

Very truly yours,

G. G. Hunt
Chief Engineer
Duane Arnold Energy Center

DLW:GGH:bh
Enclosure

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

4360

IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office
CEDAR RAPIDS, IOWA

Subject: Abnormal Occurrence
Report Number: A. O. 50-331/75-18
Report Date: April 17, 1975
Occurrence Date: April 7, 1975
Facility: Duane Arnold Energy Center, Unit #1, Palo, Iowa

Identification of Occurrence

Out-of-specification Emergency Service Water Pump Flow Rates, reportable in accordance with Appendix A to Operating License DPR-49, Specification 1.0.4.b and 3.8.C.1.

Description of Occurrence

During the performance of Surveillance Test Procedure No. 48C001 - Emergency Service Water System, it was determined that the flow rates for the Emergency Service Water Pumps were as follows:

	<u>Flow Rate</u>
Pump 1P-99A	1130 gpm @ 73.5 psig TDH (170 Ft.)
Pump 1P-99B	1125 gpm @ 73.5 psig TDH (170 Ft.)

In accordance with Specification 4.8.C.1, the required flow rate for the pumps is 1200 gpm at a TDH of 73.5 psig (170 Ft.).

The Surveillance Test was performed after plant personnel determined that the wrong flow element orifice curve had been used when verifying pump flow rates during previous surveillance testing.

Designation of Apparent Cause of Occurrence

The cause of the occurrence was normal wear of the pump impellers. A contributing cause to the occurrence was the use of the wrong flow element orifice curve when verifying pump flow rates during previous surveillance testing.

Analysis of Occurrence

Investigation into the affect of the occurrence on plant safety has not been completed. The results of the investigation will be included in a Supplementary Report.

4/7/75

Corrective Action

The impeller clearances on the pumps were reduced and Surveillance Test No. 48C001 was repeated. The flow rates after readjustment of the impeller clearances were as follows:

Flow Rate

Pump 1P-99A	1200 gpm @ 73.5 TDH
Pump 1P-99B	1230 gpm @ 73.5 TDH

Pump 1P-99A was returned to service on April 8, 1975 and pump 1P-99B was returned to service on April 10, 1975.

The proper flow element orifice curve has been incorporated in the Emergency Service Water Surveillance Test Procedure.

Conclusion

This report was reviewed and approved by the DAEC Operations Committee on April 17, 1975.



G. G. Hunt
Chief Engineer
Duane Arnold Energy Center

DLW:GGH:bh