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FROM: Iowa Electric Light & Power Co. Cedar Rapids, Ia G.G. Hunt		DATE OF DOC 11-8-74	DATE REC'D 11-13-74	LTR XXXX	TWX	RPT	OTHER
TO: Mr. James G. Keppler		ORIG 1-signed	CC	OTHER	SENT AEC PDR <u>XXXXXXXXXX</u> SENT LOCAL PDR <u>XXXXXXXXXX</u>		
CLASS	UNCLASS XXXXXXX	PROP INFO	INPUT	NO CYS REC'D	DOCKET NO: 50-331		

DESCRIPTION:

Ltr Trans the Following:

ACKNOWLEDGED

DO NOT REMOVE

PLANT NAME: Duane Arnold Unit #1

ENCLOSURES:

Abnormal Occurrence #74-47 on 10-30-74 concerning the differential pressures obtained during RCIC and HPCI flow tests did not agree with the differential pressures obtained by design calculations.....

FOR ACTION/INFORMATION 11-15-74 JGB

- | | | | |
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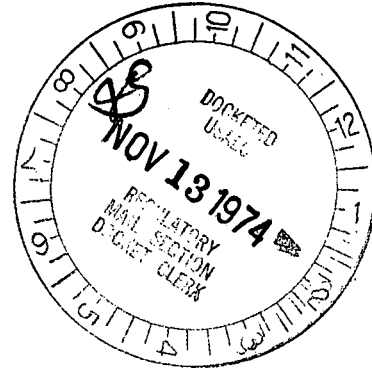
IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office

CEDAR RAPIDS, IOWA
DUANE ARNOLD ENERGY CENTER
PALO, IOWA
NOVEMBER 8, 1974
DAEC - 74 - 392

Regulatory

File Cy.



Mr. James G. Keppler, Director
Regulatory Operations Regional Office
U.S. Atomic Energy Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

SUBJECT: Abnormal Occurrence No. DPR 50-331/74-47
FILE: A-118a
A-110

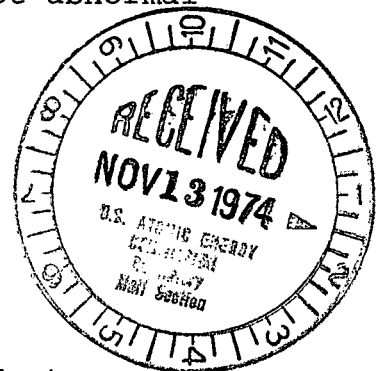
Dear Mr. Keppler:

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.

Very truly yours,

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

G. G. Hunt
Chief Engineer
Duane Arnold Energy Center



GAE:GGH:mg
Enclosure

CC: E. G. Case
C. W. Sandford
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11608

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IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office

CEDAR RAPIDS, IOWA

Subject: Abnormal Occurrence
Report Number: A.O. 50-331/74-47
Report Date: November 8, 1974
Occurrence Date: October 30, 1974
Facility: Duane Arnold Energy Center, Unit #1, Palo, Iowa

Identification of Occurrence

Trip level settings for RCIC Turbine High Flow and HPCI Turbine Steam Line High Flow (Table 3.2-B), reportable per Appendix A, Operating License DPR-49, Specification 1.0.4.d..

Description of Occurrence

During the analysis of Startup Test data it was observed that the differential pressures obtained during RCIC and HPCI flow tests did not agree with the differential pressures obtained by design calculations. In addition, during the startup tests, the differential pressures obtained from the two elbow tap flow meters on the HPCI steam line were not in close agreement with each other.

Designation of Apparent Cause of Occurrence

The apparent cause of the disagreements noted above is an error that occurred in the design calculations upon which the Technical Specifications were based. The intent of the subject devices is to isolate the RCIC and HPCI systems at a flow of 300% rated to provide reactor protection in the event of a steam line break. The RCIC and HPCI setpoints of 180 inches of water and 225 inches of water respectively, which are found in the Technical Specifications, were based on steam line diameters of 3 inches and 8 inches respectively. These steam line sizes were in error since the actual steam line diameters are 4 inches for RCIC and 10 inches for HPCI. The differential pressure setpoints calculated analytically using the correct line sizes are 110 inches of water for RCIC and 100 inches of water for HPCI.

Analysis of Occurrence

This analysis has not been completed and will be submitted in a supplementary report.

Corrective Action

The subject devices have been recalibrated to the revised setpoints to comply with the intent of the Technical Specification. A Technical Specification change request to correct the erroneous setpoints is being prepared but is pending further investigation of the disagreement found between the two HPCI elbow tap flow meters.

Conclusion

This report was reviewed and approved by the DAEC Operations Committee on November 8, 1974.



G. G. Hunt
Chief Engineer
Duane Arnold Energy Center

OCS:GGH:bh