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FRCH: DATE OF DOC DATE REC'D LTR TAX RFT OTHER Item apids, Lowa 7-25-74 8-1-74 X TAX RFT OTHER C. G. Hunt 7-25-74 8-1-74 X SENT ACC PDR X TO: ORIG CC OTHER SENT ACC PDR X Mr. Kenpler Isianed CC OTHER SENT ACC PDR X DESCRIPTION LURUT NO CYS REC'D DOCKET NO: SENT ACC PDR X DESCRIPTION SENT ACC PDR X SENT ACC PDR X DESCRIPTION ADATE REC'D DOCKET NO: SENT ACC PDR X DESCRIPTION SENT ACC PDR SENT ACC PDR SENT ACC PDR X DESCRIPTION SENT ACC PDR INFO SENT ACC PDR SENT ACC PDR DESCRIPTION SENT ACC PDR INFO SENT ACC PDR SENT ACC PDR DESCRIPTION SENT ACC PDR SENT ACC PDR SENT ACC PDR SENT ACC PDR DESCRIPTION SENT ACC PDR SENT ACC PDR SENT ACC PDR SENT ACC PDR DESCRIPTION SENT ACC PDR SENT ACC PDR SENT ACC PDR SENT ACC PDR DESCRIPTION SENT ACC PDR SENT ACC PDR SENT AC	. u t t	▶ 	•				FILE:			
Iowa Ricetric Light & Power Company Cedar Rapids, Iowa G. G. Hunt 7-25-74 8-1-74 x TO: ORIG CC OTHER SENT LOCAL PDR_X TO: 1 signed CLASS DOCKET NO: X TAXX INCLASS PROP INFO INFUT NO CYS REC'D DOCKET NO: XXXX 1 50-331 DOCKET NO: X X DESCRIFTION: 1 50-331 DOCKET NO: X Ltr trans the following: I 50-331 DOCKET NO: DESCRIFTION: Injection Valve. Injection Valve. Injection Valve. PLANT NAME: Duane Arnold FOR ACTICH/INFORMATION 8-1-74 AB BUTLER (L) SCHNENCER (L) ZIEMANN (L) REGAN (E) W/ CYS W/ CYS V/ CYS W/ CYS W/ CYS W/ CYS W/ CYS EAR AT IND MUTLER (L) SCHNENCER (L) INTORNAL DISTRIBUTION AT IND SCHNENCER AT IND MY CYS W/ CYS W/ CYS W/ CYS K/ CYS SCHNENCER DOCKET NO: MY CYS W/ CYS W/ CYS <td< td=""><td>FROM:</td><td>•<u></u></td><td>DATE OF DOC</td><td>DATE</td><td>REC'D</td><td>LTR</td><td>TWX</td><td>RPT</td><td>OTHER</td></td<>	FROM:	• <u></u>	DATE OF DOC	DATE	REC'D	LTR	TWX	RPT	OTHER	
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IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office CEDAR RAPIDS, IOWA DUANE ARNOLD ENERGY CENTER PALO, IOWA JULY 25, 1974 DAEC - 74 - 263



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

> SUBJECT: Abnormal Occurrence No. 50-331/74-22 FILE: A-118a

Dear Mr. Keppler:

In accordance with Appendix A, 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 occurrence on July 18, 1974.

It was originally intended to make this report in accordance with Specification 6.11.2A.2. However, while in the process of preparing the report, a reevaluation of available data indicated that the occurrence should be reported under Specification 1.0.4.d.

Very truly yours,

JUL 2 9 1974

G. G. Hunt Chief Engineer Duane Arnold Energy Center

OCS:GGH:bh

Enclosure

- CC: John O'Leary
 - C. W. Sandford
 - J. A. Wallace
 - E. L. Hammond
 - B. R. York
 - D. L. Wilson
 - H. W. Rehrauer-Chairman, Safety Committee
 - L. D. Root
 - J. R. Newman
 - B. L. Hopkins





IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office Cedar Rapids, Iowa

Subject:	Abnormal Occurrence
Report Number:	A0 50-331/74-22
Report Date:	July 25, 1974
Occurrence Date:	June 30, 1974 and July 1, 1974
Facility:	Duane Arnold Energy Center, Unit #1, Palo, Iowa

Identification of Occurrence

On June 30, 1974, HPCI Injection Valve (MOV-2312) did not operate in the minimum time required during the performance of Startup Test Instruction (STI)-15 (HPCI) (Event 1). On July 1, 1974, HPCI Injection Valve (MOV-2312) did not operate during the performance of STI-15 (Event 2). These events are reportable per Appendix A, Operating License DPR-49, Specification 1.0.4.d..

Conditions Prior to Occurrence

June 30, 1974 (Event 1)

Reactor and plant at steady-state conditions, 700 MWt (44% power), preparing to commence STI-15.

July 1, 1974 (Event 2)

Reactor and plant at steady-state conditions, 700 MWt (44% power), preparing to commence STI-15.

Description of Occurrence

June 30, 1974 (Event 1)

1630 - Commenced STI-15

- 1700 MOV-2312 did not operate in the minimum time specified by STI-15.
- 1831 Reactor Scram due to unrelated event.
- 2130 HPCI was declared operable following satisfactory completion of STP45D001 (HPCI Pump and Operability Tests).

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July 1, 1974

1 ---- 51

0840 - Satisfactory completion of STI-15 (HPCI System) lined up to pump condensate storage tank to condensate storage tank.

July 1, 1974 (Event 2)

2120 - Commenced STI-15 MOV-2312 did not operate. HPCI turbine steam supply vavle (MOV-2202) was cycled.

2230 - STI-15 completed satisfactorily.

The Office of the Directorate of Regulatory Operations for Region III was notified by telephone on July 18, 1974, followed by written notification by telecopier on the same day stating that both events had been classified as an abnormal occurrence.

Designation of Apparent Cause of Occurrence

Event 1 - The cause of the occurrence was slow opening of the HPCI turbine stop valve which is interlocked with MOV-2312 by relay K-13. Investigation revealed that the bypass valve around the hydraulic operating cylinder of the stop valve should have been closed further since the bypass controls the rate at which the stop valve operates.

Event 2 - The cause of the occurrence was thought to be Relay K-51 which deenergizes when MOV-2202 is opened to allow MOV-2312 to open. After inspection and manual actuation of Relay K-51 contacts MOV-2202 was cycled several times from panel 1C-03 with switch S-3. MOV-2202 and Relay K-51 operated normally and the condition which caused the problem could not be reproduced. Subsequent investigation revealed that the problem with Relay K-51 was the accumulation of moisture in the MOV-2202 junction box.

Analysis of Occurrence

The causes of the reportable occurrence are specified above. Surveillance Tests specified in Specification 4.5.D.2 were not required because the reactor scrammed (due to an unrelated event) before the tests could be initiated in the case of Event 1 and in the case of Event 2 the HPCI was again operable before the tests could be initiated.

Corrective Action

Event 1 - HPCI turbine stop valve operating speed was increased by an adjustment of the bypass valve.

Abnormal Occurrence AO 50-331/74-22

Event 2 - Corrective action could not be completed immediately after the occurrence due to the proper operation of K-51 and MOV-2202 once the K-51 Relay was manually actuated.

Conclusion

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The contents of this report were reviewed and approved by the DAEC Operations Committee on July 25, 1974. The Committee concluded that the occurrence did not present a hazard to the health and safety of the public.

Altzhunk

G. G. Hunt Chief Engineer Duane Annold Energy Center

MLS:OCS:GGH:bh