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FILE: INCIDENT REPORT FILE

FROM: Iowa Elec. Light & Power Co Cedar Rapids, Iowa E.L. Hammond			DATE OF DOC 10-31-75	DATE REC'D 11-11-75	LTR XXX	TWX	RPT	OTHER
TO: Mr. James Keppler			ORIG 1 Signed	CC 0	OTHER	SENT AEC PDR XXX SENT LOCAL PDR XXX		
CLASS	UNCLASS	PROP INFO	INPUT	NO CYS REC'D 1		DOCKET NO: 50-331		
XXX								

DESCRIPTION:

Letter trans the following.....

ENCLOSURES:

Abnormal Occurrence # 75-57, on 10-22-75,
Concerning Inoperable relay of the HPCI
turbine.....

(1 Copy Received)

PLANT NAME Duane Arnold

FOR ACTION/INFORMATION

SAB 11-12-75

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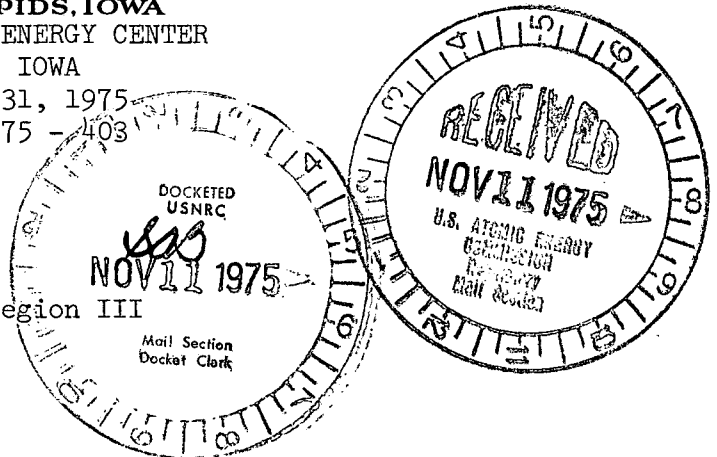
IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office

CEDAR RAPIDS, IOWA
DUANE ARNOLD ENERGY CENTER
PALO, IOWA

OCTOBER 31, 1975
DAEC - 75 - 403

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



Subject: Abnormal Occurrence No. AO 50-331/75-57

File: 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.

Very truly yours,

E. L. Hammond

E. L. Hammond
Assistant Chief Engineer
Duane Arnold Energy Center

DLW/ELH/mg

cc: B. C. Rusche
D. Arnold
J. A. Wallace
L. Liu
H. W. Rehrauer - Chairman, Safety Committee
J. R. Newman
G. G. Hunt

12902

NOV 3 1975

IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office

CEDAR RAPIDS, IOWA

Subject: Abnormal Occurrence
Report Number: AO 50-331/75-57
Report Date: October 31, 1975
Occurrence Date: October 22, 1975
Facility: Duane Arnold Energy Center

Identification of Occurrence

Inoperable relay which supervises the HPCI turbine speed controller, reportable in accordance with Appendix A to Operating License DPR-49, Specifications 3.5.D.1 and 1.0.4.b.

Description of Occurrence

During the performance of Surveillance Test No. 45D001 - HPCI System Operability Tests, it was determined that the HPCI turbine would not respond to any speed change signal in either the manual or auto mode. The turbine speed remained constant at the minimum speed setting at 1000 RPM.

The HPCI System was immediately declared inoperable and surveillance of the ADS, RCIC and LPCI Systems was initiated in accordance with Specification 3.5.D.2.

Designation of Apparent Cause of Occurrence

The apparent cause of the occurrence was inadequate spring tension and dirty contacts on HPCI speed controller relay E41-K-54.

Analysis of Occurrence

The design function of relay E41-K54 is to deenergize and cause the HPCI turbine speed controller to transmit a minimum speed signal (1000 RPM) whenever the HPCI turbine control valve is in the closed position. Although the relay deenergized as required, the dirty contacts and inadequate spring tension prevented a HPCI turbine speed controller ramp signal permissive.

The occurrence did not present an unsafe plant condition since the ADS, RCIC and LPCI systems were verified operable.

Corrective Action

The contacts on relay E41-K54 were cleaned and the relay spring tension was increased. The relay was functionally tested and the HPCI operability surveillance test was successfully performed.

October 31, 1975

This is the first known occurrence involving dirty contacts and inadequate spring tension on this type of relay at this facility.

Failure Date

Equipment Description: Auxiliary Relay
Manufacturer: General Electric
Type: HGA

Conclusion:

This report was reviewed and approved by the DAEC Operations Committee on October 31, 1975. The Committee concluded that the occurrence did not present a hazard to the health and safety of the public.

E. L. Hammond

E. L. Hammond

Assistant Chief Engineer
Duane Arnold Energy Center

DLW/ELH/mg