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FROM: Iowa Elec. Light & Pwr. Co. Cedar Rapids, Iowa G.G. Hunt		DATE OF DOC 5-20-75	DATE REC'D 5-28-75	LTR XXX	TWX	RPT	OTHER
TO: Benard C. Ruschê		ORIG 1 Signed	CC	OTHER	SENT AEC PDR <u>XXXX</u> SENT LOCAL PDR <u>XXXX</u>		
CLASS	UNCLASS	PROP INFO	INPUT	NO CYS REC'D 1	DOCKET NO: 50-331		
DESCRIPTION:  Tech. Spec. Violation 75-5--on 4-19/20/21, 1975.. concerning during surveillance tests the setpoints for certain undervoltage relays were determined to be in nonconformance with Table 3.2.B of the Tech. Spec.....  (1 cy. Rec'd)				ENCLOSURES:			
PLANT NAME: Duane Arnold							

**FOR ACTION/INFORMATION**

VCR 5-31-75

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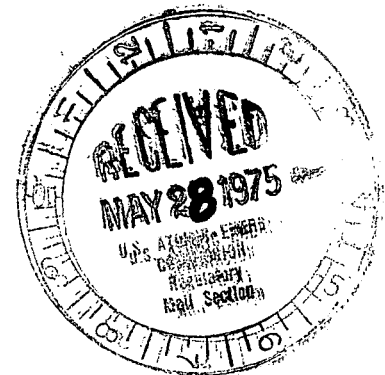
Regulatory

MAY 20 1975

## IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office

CEDAR RAPIDS, IOWA  
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PALO, IOWA  
MAY 20, 1975  
DAEC-75-201



Mr. Benard C. Rusche, Director  
Office of Nuclear Reactor Regulations  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20545

SUBJECT: Technical Specification Violation 75-5  
FILE: A-110 A-117

Dear Mr. Rusche:

This report is submitted in accordance with the requirements of Appendix B to Operating License DPR-49, Specifications 5.4.2.1 and 3.1.1.

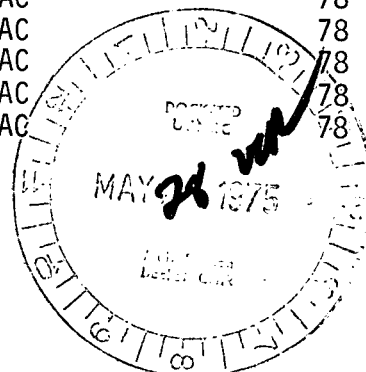
Problem

On April 19, 20, and 21, 1975, the following Surveillance Test Procedures were performed as required once per operating cycle:

- No. 42B031 - 4KV Emergency Bus Undervoltage Relay Instrument Functional Test/Calibration
- No. 42B032 - 4KV Emergency Bus Sequential Loading Relay Instrument Functional Test/Calibration
- No. 42B033 - 4KV Emergency Bus Undervoltage Instrument Functional Test/Calibration

During the performance of the surveillance tests, the setpoints for certain undervoltage relays were determined to be in nonconformance with Table 3.2.B of the Technical Specifications. The undervoltage relays involved including as-found setpoints and required setpoints are listed in the table below:

<u>Relay No.</u>	<u>As-Found Setpoint</u>	<u>Required Setpoint</u>
127-3	12.1 VAC	24 VAC (20% of rated)
127-4	10.0 VAC	24 VAC (20% of rated)
127-31	64.3 VAC	78 VAC (65% of rated)
127-41	66.4 VAC	78 VAC (65% of rated)
127/SB1	63.8 VAC	78 VAC (65% of rated)
127/SB2	64.2 VAC	78 VAC (65% of rated)
127/SB11	64.3 VAC	78 VAC (65% of rated)
127/SB12	62.7 VAC	78 VAC (65% of rated)



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Investigation

The subject relays provide the capability for transferring sources of power to the plant essential services bus under loss of power and/or undervoltage conditions. Although the relays were calibrated at setpoints lower than those required by the Technical Specifications, plant safety was not adversely affected. The capability for providing transfer of power sources to the essential services bus under loss of power and/or undervoltage conditions was demonstrated during the Startup Test Program.

It has been determined that the cause of the nonconformance condition was a deficiency in the Preoperational Test Procedure for the 4160V Power Supply System. The requirement for verifying that the setpoints of the subject undervoltage relays were in conformance with the controlling design document and the Technical Specification was inadvertently not included in the test procedure.

Corrective Action

All of the subject undervoltage relays were recalibrated to the setpoints required by the Technical Specifications. Also, an analysis was performed to verify that the readjustment of the setpoints did not affect previous undervoltage and/or loss of off-site power testing. The analysis and/or loss of off-site power testing. The analysis concluded that due to the rapid voltage decay during a loss of power situation, the readjustment of the relay setpoints will not significantly change bus transfer times. Also, readjustment of the relay setpoints will actuate undervoltage logic at a slightly higher bus level and will occur insignificantly sooner.

In addition, a review of the setpoints for all instruments covered by the Technical Specification and not previously surveillance tested, will be conducted to verify conformance with the Technical Specification.

Conclusion

The DAEC Operations Committee reviewed and approved this report on May 20, 1975. The Committee had previously reviewed the Technical Specification Violation on April 20, 22, and 23, 1975.

Very truly yours,

*G. G. Hunt* ELH

G. G. Hunt  
Chief Engineer  
Duane Arnold Energy Center

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