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PHONE: (319) 851-7306

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DUANE ARNOLD ENERGY CENTER
Iowa Electric Light and Power Company
Licensee Event Report - Supplemental Data
Docket No. 050-0331

Licensee Event Report Date: 11-8-83

Reportable Occurrence No: 83-042

Description of Event:

On November 8, 1983 at approximately 1746 hrs, both reactor recirc pump motor generator sets automatically tripped. Pursuant to Technical Specification 3.3.E which states: "When the reactor mode switch is in STARTUP or RUN position, the reactor shall not be operated in the natural circulation flow mode", the reactor was immediately manually scrammed.

The appropriate reactor shutdown procedures were initiated and all notifications per 10 CFR 50.72 were performed as required. The reactor brought to a safe shutdown with all systems functioning as designed.

Cause Description and Resolution:

During the course of a LPCI trip system logic functional test and timer calibration, various relays are bypassed (in accordance with procedure) to provide the LPCI recirc loop select logic with a false indication of a LOCA. Midway through the test procedure, maintenance personnel inadvertently shorted a temporary jumper to ground and blew two fuses in the control wiring. Prior to replacing the fuses, a previously energized test relay which had temporarily disabled the actual initiation of the LPCI loop select logic was not reset. As a result, upon replacing the fuses and restoring power to the control circuitry, the test configuration of the LPCI loop select circuit was such that the recirc pump trip circuit was energized and both M/G sets were automatically tripped.

In order to prevent future spurious trips of this nature, the surveillance test procedure shall be revised to temporarily bypass the recirc pump trip relays while the system is under test. An Engineering Work Request shall also be generated to study the feasibility of installing permanent test switches and test blocks in circuit configurations subject to complicated test procedures.

As the tech specs were adhered to and the reactor was brought to a safe shutdown with all systems functioning as designed, plant safety was not compromised and no further action is warranted.

Dmb

Iowa Electric Light and Power Company

December 6, 1983
DAEC-83-869

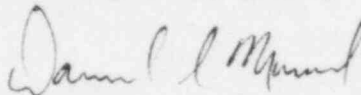
Mr. James G. Keppler
Regional Administrator
Region III
U. S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

Subject: Duane Arnold Energy Center
Docket No. 50-331
Op. License DPR-49
Licensee Event Report No. 83- 042
(30-day)

Dear Mr. Keppler:

In accordance with Appendix A to Operating License DPR-49, Technical Specifications, Section 6.11.2.b(2), and Bases for Duane Arnold Energy Center and Regulatory Guide 10.1, please find attached a copy of the subject Licensee Event Report.

Very truly yours,



Daniel L. Mineck
Plant Superintendent - Nuclear
Duane Arnold Energy Center

DLM/MSH/pf

attachment

cc: Document Control Desk
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

NRC Resident Inspector - DAEC

File A-118a

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