NRC Form 386 (9-83) LICENSEE EVEN								EPORT (LER)				S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/85					
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pressure below 40 psig had the potential for air ingress. Because of the lech. Spec. LCO requirement without a corresponding action statement, this placed the plant in violation of the Tech. Spec. For this reason, this event is being reported pursuant to 10CFR50.73 (a)(2)(i)(B). The fill pump was rebuilt and is now maintaining design pressure. An amendment to Tech. Spec. par. 3.5.B will be requested to include specific actions upon receiving discharge piping low pressure alarm. Engineering efforts to upgrade the adequacy of the fill system are continuing.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/85

ACILITY NAME (1)

Duane Arnold Energy Center

Duane Arnold Energy Center

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On 010284 at 2144, the RHR/Core Spray Fill Pump motor was tripped by a thermal overload on the circuit breaker relay. The RHR/Core Spray pump discharge piping pressure decreased to 25 psig from the normal operating pressure of 70 psig. This initiated the RHR low pressure alarm set at 40 psig. The fill pump, 1P-70 was restarted at 2150 but was unable to maintain the system pressure. The system piping was pressurized and vented at 2155. One RHR pump was started at 2224 to maintain system pressure at greater than or equal to 40 psig. The fill pump was rebuilt 010484 and is now running at design pressure. At the time of the event, the plant was in the run mode and the reactor was at 100% power.

TEXT (If more space is required, use eriditional NRC Form 365A's) (17)

Technical Specification par. 3.5.B states "Whenever Core Spray subsystems, LPCI subsystem, HPCI, or RCIC are required to be operable, the discharge piping from the pump discharge of these systems to the last block valve shall be filled" as an LCO with no action statement. The RHR/Core Spray discharge is maintained full by 1P-70. The vertical head of the specified piping is approximately 90 feet which corresponds to 40 psig. The operators who performed the venting reported a steady stream of water with no accumulation of air apparent upon opening the vent valves throughout the system. Apparently, no air entered the piping during the short duration of system pressure being under 40 psig. However, in spite of the operator observations and the prompt repressurization of the system piping, pressure below 40 psig had the potential for air intrusion. Because of the Tech. Spec. LCO requirement without a corresponding action statement, this placed the plant in violation of the Tech. Spec. For this reason, this event is being reported pursuant to 10CFR50.73(a)(2)(i)(B).

As discussed in Tech. Spec. basis, Section 3.5, the maintenance of filled discharge piping is to prevent water hammer. However, the systems would still perform their design function even with a water hammer. For this reason, the temporary problem with the discharge piping pressure would not affect the operability of the above identified ECCS systems.

As corrective action, an amendment to Tech. Spec. par. 3.5.B will be requested to include specific actions upon receiving discharge piping low pressure alarm. Engineering efforts to upgrade the adequacy of the fill system are continuing.

Iowa Electric Light and Power Company February 1, 1984

DAEC-84-53

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

Subject: Duane Arnold Energy Center

Docket No. 50-331 Op. License DPR-49

Licensee Event Report No. 84-005

Gentlemen:

In accordance with 10 CFR 50.73 please find attached a copy of the subject Licensee Event Report.

Very truly yours,

Daniel L. Mineck

Plant Superintendent - Nuclear Duane Arnold Energy Center

I Mmuh

DLM/WRK/pv

attachment

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

NRC Resident Inspector - DAEC

File A-118a

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