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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES 8/31/85

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At 0603 hours on January 22, 1986, with the reactor in run mode at 66% power, an auto-isolation of the Control Building ventilation system and initiation of the 'A' Standby Filter Unit (SFU, EIIS System VI) occurred as a result of low inlet air temperature in the normal main air intake plenum. This auto-initiation of a Standby Filter Unit constitutes an unplanned actuation of an Engineered Safety Feature and, as such, is reportable per 10 CFR 50.73(a)(2)(iv). See LER's 84-003, 84-004, 84-011, 84-043 for similar events.

The Control Building ventilation system will isolate the building from normal outside air intake and recirculate the ventilation air through the essential switchgear rooms, battery rooms, and the control room on inlet air high radiation or low temperature. In addition, the system supplies treated make-up air through the Standby Filter Units to balance the exhaust of the battery rooms. The safety-related functions of the SFU's and Control Building isolation is to minimize operator radiation exposure by filtration of the make-up outside air being provided in place of full flow makeup. The nonsafety related function of the SFU's is to auto-initiate on low inlet temperature in order to provide more heat for the comfort of the control room personnel and to protect equipment from eventual cold temperatures.

The Control Building air intake plenum has three hot water preheat coils, each approximately 3.5 feet square, piped in parallel and vertically stacked within the plenum so that intake air must pass through a coil under normal conditions. On 1/07/86, the lower heating coil was discovered to have a rupture in its tubing. It was therefore isolated, and then covered with plastic to prevent outside air from passing through the coil unheated. When being repaired the coil is emoved and a baffle placed in its space to prevent air flow. On 1/22/86, control room personnel investigating immediately after the SFU initiation at 0603 hours found the lower preheat coil in place without the temporary plastic cover. Further investigation revealed the root cause of the SFU initiation to be personnel error. Repairs to the coil had been completed and it had been reinstalled late on the day shift of 1/21/86 with the plastic cover left off. However, neither the supervisor or the control room personnel were informed that day by the immediate supervisor of the repair crew that the heater repair was now completed. Therefore, unheated air passed through the lower coil throughout the evening of 1/21/86 and early morning of 1/22/86, until the low inlet temperature switch (VI-TS-6124A), whose element is located immediately downstream of the heaters, tripped at its forty degree Fahrenheit setpoint resulting in the SFU initiation. The outside temperature at the time of the initiation was approximately 16 degrees Fahrenheit. The SFU was reset at 1425 hours on 1/22/86. The plastic over the heaters was replaced until the heaters were returned to service at 1625 hours on 1/22/86.

RC Form 366A

NRC Form 366A (9-83)	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION								US	U.S. NUCLEAR REGULATORY COMMISSION APPROVED OME NO. 3150-0104 EXPIRES. 8/31/85									
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As a corrective action the immediate supervisor was counseled by his supervisor. Plant personnel have been reminded of the importance of keeping Operations personnel informed of the progress of plant activities in the weekly plant newsletter and a weekly meeting. The Standby Filter Unit initiated and functioned as per design. In addition, the SFU initiated on a nonsafety parameter and was not required for operator or plant safety.

Iowa Electric Light and Power Company

February 21, 1986 DAEC-86-0132

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. 86-001

Gentlemen:

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

Very truly yours,

I Mu

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

DLM/JRP/kp

Attachment - LER 86-001

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

