NRC Form 366 (9-83)

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

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
Duane Arnold Energy Center	0 5 0 0 0 3 3 1 1	1 OF 0 2

TITLE (4)

Standby Filter Unit Actuation on Radiation Monitor Downscale Trip

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES	DOCKET NUMBER(S)
0 9	0 4	8 4	8 4	0 3 2	0 0	1 0	0 4	8 4	None	0 5 0 0 0
										0 5 0 0 0

OPERATING MODE (9)	N	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)			
POWER LEVEL (10)	0 7 3	20.402(b)	20.405(c)	X 50.73(a)(2)(iv)	73.71(b)
		20.405(a)(1)(i)	50.36(c)(1)	50.73(a)(2)(v)	73.71(c)
		20.405(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
		20.405(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(viii)(A)	
		20.405(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)	
		20.405(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(x)	

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
	AREA CODE
Wendell Keith, Technical Support Engineer	3 1 9 8 5 1 - 7 3 3 9

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	
C	I L	R I S	N 3 0 5	No							

SUPPLEMENTAL REPORT EXPECTED (14)

		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
YES (If yes, complete EXPECTED SUBMISSION DATE)	X NO				

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

During normal power operation with no significant evolutions in progress, the "B" Control Room Ventilation System (Standby Filter Unit, SFU) was started automatically 3 times on 2 days when the Control Building air intake "B" radiation monitor tripped downscale. In each case, redundant monitors indicated that radiation was at normal background levels.

The radiation element photomultiplier tube was replaced and the monitor was calibrated satisfactorily. Replacement and relocation of these monitors is in progress.

The "A" SFU was operable throughout these events.

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TEXT (If more space is required, use additional NRC Form 366A's) (17)

During normal power operation with no significant evolutions in progress, the "B" Control Room Ventilation System (Standby Filter Unit, SFU, EIIS VI) was started automatically following a downscale trip of the Control Building air intake radiation monitor (EIIS IL, RIS-6101B). This occurred at 0240 hours on 9/4/84 and at 0225 and 0500 hours on 9/16/84. The reactor power was at 73 and 70% on these two days. After each SFU actuation, the "A" radiation monitor was reading at normal background levels. In each case, the SFU performed its design function. The initiations were diagnosed as spurious and the SFU was reset.

Following the first initiation, the radiation element photomultiplier tube was replaced. The element was readjusted after the subsequent initiations. These radiation monitors (NMC, Inc. - Model GA-2TO) have had a history of problems at Duane Arnold including LERs 84-020 and 84-026. Engineering work is in progress to have these monitors replaced and relocated.

The initiation logic correctly actuated the SFU on radiation monitor going downscale. The "A" SFU initiation logic was operable and available to start the "A" SFU automatically, in the event of an actual high radiation condition. Both the "A" and "B" SFUs were operable throughout the event. The plant operated within the requirements of the technical specifications at all times. As the SFUs operated during the time the radiation monitors were inoperable, the SFUs remained operable and no LCOs were entered as a result of these problems.

Iowa Electric Light and Power Company

DAEC-84-624

October 4, 1984

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. 84-032

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

DLM/WRK/kp

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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