

LICENSEE EVENT REPORT (LER)

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

TITLE (4) Secondary Containment Airlock Interlock Malfunctions

EVENT DATE (6)			LER NUMBER (8)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)		
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER(S)
08	21	84	84	034	00	09	20	84	None		0 5 0 0 0

OPERATING MODE (9) N

POWER LEVEL (10) 0.98

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5 (Check one or more of the following) (11)

20.402(b)	20.406(c)	50.73(a)(2)(iv)	73.71(b)
20.406(a)(1)(i)	50.36(c)(1)	50.73(a)(2)(v)	73.71(c)
20.406(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 365A)
20.406(a)(1)(iii)	X 50.73(a)(2)(i)	50.73(a)(2)(vii)(A)	
20.406(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(vii)(B)	
20.406(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME William Miller, Technical Support Supervisor TELEPHONE NUMBER 3 1 9 8 5 1 - 7 2 3 8

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC
E	NGDR			Yes					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) X NO

EXPECTED SUBMISSION DATE (15)

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

Between August 21 and September 20, 1984 four unintentional momentary violations of secondary containment occurred during normal reactor power operation. (See LER 84-30 for an earlier event on August 21.) All four violations involved two secondary containment airlock doors being simultaneously opened. By DAEC Technical Specification 3.7.C.1, secondary containment integrity is required during power operation. Therefore, this event constitutes a condition prohibited by our technical specifications and is being reported accordingly. The standby gas treatment system (EIS Code BH) was operable but not required to be operating to provide an elevated filtered effluent pathway. Hence, there was no resultant effluent release and no impact on the health and safety of the public from this event.

As detailed in the attached text, these events occurred as a result of defective door interlock and latching mechanisms. Repairs have been performed and administrative controls strengthened to maintain interlock operability.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) Duane Arnold Energy Center	DOCKET NUMBER (2) 0 5 0 0 0 3 3 1 8 4	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		8 4	0 3 4	0 0	0 2	OF 0 2

TEXT (If more space is required, use additional NRC Form 368A's) (17)

Between August 21 and September 20, 1984 four unintentional momentary violations of secondary containment occurred during normal reactor power operation. (See LER 84-30 for an earlier event on August 21.) All four violations involved two secondary containment airlock doors being simultaneously opened. By DAEC Technical Specification 3.7.C.1, secondary containment integrity is required during power operation. Therefore, this event constitutes a condition prohibited by our technical specifications and is being reported accordingly. The standby gas treatment (EIS Code BH) system was operable but not required to be operating to provide an elevated filtered effluent pathway. Hence, there was no resultant effluent release and no impact on the health and safety of the public from this event.

Secondary containment violations were observed by plant personnel on August 21, 27, and September 10 and 20, 1984. The first event (8-21-84) was observed to occur at approximately 1335 hours due to the unintentional simultaneous opening of the machine shop door and a personnel door in the Reactor Building airlock. Supervisory personnel at the airlock were unable to identify an interlock failure which would allow this combination. This violation was momentary and unintentional. One or more additional violations of a few seconds duration may also have occurred while supervisory personnel investigated interlock operability during the following few minutes.

The event on August 27 occurred in a different airlock. Personnel observed that a defective latch mechanism allowed the pressure differential between the secondary containment boundary to open one door while another was being used by personnel. A third event on September 10 occurred during repair of an interlock by a mechanic and an entry on the airlock blind side by another individual. The fourth event on September 20 was similar to the August 27th event but involved a different airlock on the third floor of the Reactor Building. Each of these events resulted in secondary containment violations for a duration of a few seconds. Corrective action as detailed in LER 84-030 will address such unintentional occurrences.

Iowa Electric Light and Power Company

September 20, 1984
DAEC-84- 594

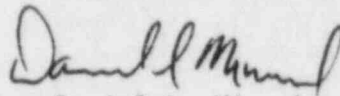
U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, D. C. 20555

Subject: Duane Arnold Energy Center
Docket No. 50-331
Op. License DPR-49
Licensee Event Report No. 84-034

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/WJM/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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