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 HANNEN,R.L. Iowa Electric Light & Power Co.
 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 89-005-00:on 890216,actuation of standby filter unit due
 to spurious upscale trip of radiation monitor.

W/8 ltr.

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LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)

Duane Arnold Energy Center (DAEC)

DOCKET NUMBER (2)

0 5 0 0 0 3 3 1 1 OF 0 3

PAGE (3)

TITLE (4) Actuation of Standby Filter Unit Due to Spurious Upscale Trip of Radiation Monitor
During Performance of Surveillance Test

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	2	1	6	8	9	8	9	0	0	5	0	0	3	1	7	8	9	None	0 5 0 0 0
OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)																	
N																			
POWER LEVEL (10)		1 0 0																	
		20.402(b)																	
		20.408(a)(1)(i)																	
		20.408(a)(1)(ii)																	
		20.408(a)(1)(iii)																	
		20.408(a)(1)(iv)																	
		20.408(a)(1)(v)																	
		20.408(a)																	
		80.73(a)(2)(iv)																	
		80.73(a)(2)(v)																	
		80.73(a)(2)(vi)																	
		80.73(a)(2)(vii)(A)																	
		80.73(a)(2)(vii)(B)																	
		80.73(a)(2)(ix)																	
		73.71(b)																	
		73.71(a)																	
		OTHER (Specify in Abstract below and in Text, NRC Form 306A)																	

NAME		LICENSEE CONTACT FOR THIS LER (12)		TELEPHONE NUMBER	
Jeff S. Axline, Technical Support Engineer				3 1 1 9 8 5 1 1 - 7 6 0 0	

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	CAUSE	SYSTEM

SUPPLEMENTAL REPORT-EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	
YES (If yes, complete EXPECTED SUBMISSION DATE)		MONTH DAY YEAR	
X NO			

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

On February 16, 1989, the plant was operating at 100% power when the control building ventilation isolated and the 'B' control building Standby Filter Unit (SFU) initiated unexpectedly. The trip occurred when the Upscale Check button on the 'B' control building air intake radiation monitor was pressed during performance of the daily sensor check surveillance test. Following release of the button, radiation levels indicated normally. Subsequent operation of the Upscale Check button during the surveillance test did not cause the upscale spike to recur.

The cause of this event was a spurious signal which occurred when the Upscale Check button was depressed.

The applicable surveillance test procedure has been revised to note the possibility of an ESF actuation during verification of radiation monitor operability.

This event had no effect on the safe operation of the plant. The control building isolated and the SFU initiated as designed in response to the high radiation signal.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/88

FACILITY NAME (1) Duane Arnold Energy Center	DOCKET NUMBER (2) 05000331	LER NUMBER(6)			PAGE(3)		
		YEAR 89	SEQUENTIAL NUMBER - 005	REVISION NUMBER - 00	2	OF	3

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

I. DESCRIPTION OF EVENT:

On February 16, 1989, at 0731 hours, the plant was operating at 100% power when the control building ventilation isolated and the 'B' control building Standby Filter Unit (SFU) (EIIS System Code VI) initiated unexpectedly. The trip occurred when the Upscale Check button on the 'B' control building air intake radiation monitor (IL-RIS, DAEC RIM 6106B) was pressed during performance of the daily sensor check surveillance test. Normally, depression of the upscale check button does not cause the artificial radiation level (see additional information section note for description of artificial radiation source) to exceed the upscale setpoint. In this case the instrument went to full scale.

II. CAUSE OF EVENT:

The cause of this event was a spurious signal which occurred when the Upscale Check button was depressed.

III. ANALYSIS OF EVENT:

This event had no effect on the safe operation of the plant. The control building isolated and the SFU initiated as designed in response to the high radiation signal. Had this event occurred under different plant conditions, the effect on the safe operation of the plant would have been the same.

IV. CORRECTIVE ACTIONS:

Immediate operator action was to determine if a high radiation condition existed. Upon investigation, it was quickly discovered that the upscale signal had occurred coincident with depression of the Upscale Check button. Following release of the button, radiation levels indicated normally. Subsequent operation of the Upscale Check button during the surveillance test did not cause the upscale spike to recur. Upon determining a high radiation condition did not exist, the SFU and control building ventilation was reset.

As followup operation of the Upscale Check button did not indicate a problem with the monitor, no further corrective actions were performed.

The applicable surveillance test procedure has been revised to note the possibility of an ESF actuation during verification of radiation monitor operability.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/88

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER(6)			PAGE(3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Duane Arnold Energy Center	05000331	89	005	00	3	OF	3

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

V. ADDITIONAL INFORMATION:

A. Previous Similar Events

NMC Model GA-6M radiation monitors have been in service at the DAEC since November 1986 with the Upscale Check button being pressed daily. No similar events involving this type of radiation monitor have occurred.

NOTE: The detector used in this radiation monitor is of the type which uses a scintillating phosphor crystal to detect radiation. As radiation impinges on the crystal, light pulses are emitted. The number of pulses increases proportionally with respect to the increase in radiation level. These light pulses are detected by a photomultiplier tube and converted to an electronic signal representing the radiation level. To provide an artificial radiation signal, a light emitting diode positioned near the photomultiplier tube is pulsed at a predetermined rate to correspond to the desired radiation level.

Iowa Electric Light and Power Company

March 17, 1989
DAEC-89-0159

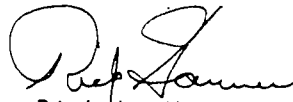
Mr. A. Bert Davis
Regional Administrator
Region III
U. S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

Subject: Duane Arnold Energy Center
Docket No: 50-331
Op. License DPR-49
Licensee Event Report #89-005

Gentlemen:

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

Very truly yours,



3-17-89

Rick L. Hannen
Plant Superintendent - Nuclear

RLH/JSA/go

cc: ~~Director of Nuclear Reactor Regulation~~

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NRC Resident Inspector - DAEC

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