

REGULATOR INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8705210455 DDC. DATE: 87/05/12 NOTARIZED: NO DOCKET #
 FACIL: 50-331 Duane Arnold Energy Center, Iowa Electric Light & Pow 05000331
 *AUTH. NAME AUTHOR AFFILIATION
 THORSTEINSON, J. Iowa Electric Light & Power Co.
 MINECK, D. L. Iowa Electric Light & Power Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 87-011-00: on 870411 & 14, half Group III isolation occurred. Caused by worker inadvertently bumping jumper loose. Isolations reset & no further isolations occurred. W/ 870512 ltr.

DISTRIBUTION CODE: 1E22D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 3
 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES:

	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL
	PD3-1 LA	1 1	PD3-1 PD	1 1
	CAPPUCCI, A	1 1		
INTERNAL:	ACRS MICHELSON	1 1	ACRS MOELLER	2 2
	AEDD/DDA	1 1	AEDD/DSP/ROAB	2 2
	AEDD/DSP/TPAB	1 1	DEDRO	1 1
	NRR/DEST/ADE	1 0	NRR/DEST/ADS	1 0
	NRR/DEST/CEB	1 1	NRR/DEST/ELB	1 1
	NRR/DEST/ICSB	1 1	NRR/DEST/MEB	1 1
	NRR/DEST/MTB	1 1	NRR/DEST/PSB	1 1
	NRR/DEST/RSB	1 1	NRR/DEST/SGB	1 1
	NRR/DLPQ/HFB	1 1	NRR/DLPQ/QAB	1 1
	NRR/DOEA/EAB	1 1	NRR/DREP/EPB	1 1
	NRR/DREP/RAB	1 1	NRR/DREP/RPB	2 2
	NRR/PMAS/ILRB	1 1	NRR/PMAS/PTSB	1 1
	REG FILE 02	1 1	RES DEPY GI	1 1
	RGNS FILE 01	1 1		
EXTERNAL:	EG&G GROH, M	5 5	H ST LOBBY WARD	1 1
	LPDR	1 1	NRC PDR	1 1
	NSIC HARRIS, J	1 1	NSIC MAYS, G	1 1

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Duane Arnold Energy Center (DAEC)	DOCKET NUMBER (2) 0 5 0 0 0 3 3 1	PAGE (3) 1 OF 0 2
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TITLE (4)
Two 1/2 Primary Containment Isolation System Group III Isolations Due to Personnel Error

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		
									None		
0 4	1 5	8 7	8 7	0 1 1	0 0	0 5	1 2	8 7	DOCKET NUMBER(S) 0 5 0 0 0		
									DOCKET NUMBER(S) 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 1 0 1 0	<input type="checkbox"/>	20.402(b)	<input type="checkbox"/>	20.405(c)	<input checked="" type="checkbox"/>	50.73(a)(2)(iv)	<input type="checkbox"/>	73.71(b)			
	<input type="checkbox"/>	20.405(a)(1)(i)	<input type="checkbox"/>	50.38(c)(1)	<input type="checkbox"/>	50.73(a)(2)(v)	<input type="checkbox"/>	73.71(c)			
	<input type="checkbox"/>	20.405(a)(1)(ii)	<input type="checkbox"/>	50.38(c)(2)	<input type="checkbox"/>	50.73(a)(2)(vii)	OTHER (Specify in Abstract below end in Text, NRC Form 366A)				
	<input type="checkbox"/>	20.405(a)(1)(iii)	<input type="checkbox"/>	50.73(a)(2)(i)	<input type="checkbox"/>	50.73(a)(2)(viii)(A)					
	<input type="checkbox"/>	20.405(a)(1)(iv)	<input type="checkbox"/>	50.73(a)(2)(ii)	<input type="checkbox"/>	50.73(a)(2)(viii)(B)					
	<input type="checkbox"/>	20.405(a)(1)(v)	<input type="checkbox"/>	50.73(a)(2)(iii)	<input type="checkbox"/>	50.73(a)(2)(ix)					

LICENSEE CONTACT FOR THIS LER (12)							TELEPHONE NUMBER		
NAME Jeffrey C. Thorsteinson, Technical Support Supervisor							AREA CODE 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	MANUFAC-TURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NPRDS		

SUPPLEMENTAL REPORT EXPECTED (14)			EXPECTED SUBMISSION DATE (15)		
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)			<input checked="" type="checkbox"/> NO		

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

On two occasions, April 11 (2116 hours) and April 14, 1987 (0822 hours), with the reactor shutdown and defueled, a half Group III isolation occurred due to a worker inadvertently bumping loose a jumper. Jumpers were installed to bypass the Primary Containment Isolation System Group III logic during design modifications.

The root cause of this event was personnel error. Each time the workers were instructed to exercise care when working in the panel. After the second occurrence, the type of jumper was changed (from alligator clip to spade lug) to reduce the possibility of it being bumped loose. This type of jumper was not used originally because a Group III isolation would have been necessary to install it.

These events did not affect the safe operation of the plant. These events are being reported pursuant to 10 CFR 50.73.a.2.iv as "Any event or condition that resulted in manual or automatic actuation of any Engineered Safety Feature (ESF)...".

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) Duane Arnold Energy Center (DAEC)	DOCKET NUMBER (2) 0 5 0 0 0 3 3 1	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 7	- 0 1 1	- 0 0	0 2	OF	0 2

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

On two occasions, April 11 (2116 hours) and April 14, 1987 (0822 hours), a half Group III isolation occurred due to a worker inadvertently bumping loose a jumper. The reactor was shutdown and defueled. Jumpers were installed to bypass the Primary Containment Isolation System (PCIS) Group III (EIIS System Code JM) logic during design modifications. The design modifications involved replacing the reactor building exhaust radiation monitors (IL-RE-7606A/B) and needed the jumper to bypass a downscale trip of these monitors.

Each time the jumper was bumped loose, an outboard Group III isolation occurred. The 'A' Standby Gas Treatment System (SGTS) was in service and the 'B' SGTS was tagged out-of-service on each occasion. Neither system was challenged by the downscale trip of the radiation monitor.

The root cause of this event was personnel error. The cramped workspace in the panel contributed to the error. The errors were not cognitive in nature. The contract personnel were following approved procedures. Following both incidents the workers were instructed to exercise care when working in the panel. After the second occurrence, the type of jumper was changed (from alligator clip to spade lug) to reduce the possibility of it being bumped loose. This type of jumper was not used originally because a Group III isolation would have been necessary to install it.

The isolations were reset and no further isolations of this kind occurred. A search of plant history revealed no similar events. No further corrective action is considered necessary.

These events did not affect the safe operation of the plant. The consequences of such an event during different operating modes are not any more restrictive than the consequences of the events reported in this LER. The Group III isolation is provided on the downscale trip of the reactor building exhaust radiation monitors to minimize the untreated release via the reactor building exhaust.

These events are being reported pursuant to 10 CFR 50.73.a.2.iv, "Any event or condition that resulted in manual or automatic actuation of any Engineered Safety Feature (ESF)...". These events were not identified to be reportable until April 15, 1987.

Iowa Electric Light and Power Company

May 12, 1987
DAEC-87- 0523

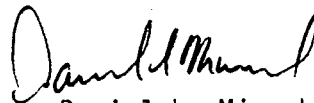
U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D. C. 20555

Subject: Duane Arnold Energy Center
Docket No. 50-331
Op. License DPR-49
Licensee Event Report No. 87-011

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

DLM/JCT/go

Attachment - LER 87-011

cc: Mr. A. Bert Davis
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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