

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Callaway Plant Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 4 8 3	PAGE (3) 1 OF 0 2
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TITLE (4)
Inadvertent Actuation of Engineered Safety Features

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		
0 8	1 0	8 4	8 4	0 2 5	0 0	0 9	0 9	8 4	DOCKET NUMBER(S) 0 5 0 0 0		
									DOCKET NUMBER(S) 0 5 0 0 0		

OPERATING MODE (9) 4	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)									
POWER LEVEL (10) 0 0 0	20.402(b)	<input checked="" type="checkbox"/>	50.73(a)(2)(iv)	<input type="checkbox"/>	73.71(b)					
	20.406(a)(1)(i)	<input type="checkbox"/>	50.73(a)(2)(v)	<input type="checkbox"/>	73.71(c)					
	20.406(a)(1)(ii)	<input type="checkbox"/>	50.73(a)(2)(vi)	<input type="checkbox"/>	OTHER (Specify in Abstract below and in Text, NRC Form 366A)					
	20.406(a)(1)(iii)	<input type="checkbox"/>	50.73(a)(2)(vii)	<input type="checkbox"/>						
	20.406(a)(1)(iv)	<input type="checkbox"/>	50.73(a)(2)(viii)(A)	<input type="checkbox"/>						
20.406(a)(1)(v)	<input type="checkbox"/>	50.73(a)(2)(viii)(B)	<input type="checkbox"/>							
	20.406(a)(1)(vi)	<input type="checkbox"/>	50.73(a)(2)(ix)	<input type="checkbox"/>						

LICENSEE CONTACT FOR THIS LER (12)						TELEPHONE NUMBER			
NAME Charles D. Naslund - Superintendent, I&C						AREA CODE			
						3 1 4	6 7 6	-	8 5 0 0

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	
B	J M R E		G 0 6 3	N						

SUPPLEMENTAL REPORT EXPECTED (14)	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
<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 8/10/84 at 1412 CDT an inadvertent Engineered Safety Feature (ESF) actuation signal occurred, due to a spurious spike on radiation monitor GT-RE-22, initiating a Control Room Ventilation Isolation Signal (CRVIS) and a Containment Purge Isolation Signal (CPIS).

Technicians were dispatched at the time of the event, to determine the cause of the ESF actuation signal. A noisy gaseous channel detector, which had been providing elevated radiation readings, spiked causing the CRVIS and CPIS.

As a short-term solution, GT-RE-22 was returned to service by altering the data base at the central minicomputer controller, RM-11, to compensate for the elevated readings provided by the noisy gaseous channel detector. GT-RE-22 was declared operable at 1518 CDT and the CRVIS and CPIS were reset per plant operating procedures as 1522 CDT.

A new scintillator and photomultiplier tube assembly has been ordered for the detector and will be installed by approximately 10/1/84.

No radiation above normal background was present and this event has in no way affected the health and safety of the public.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) Callaway Plant Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 4 8 3	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 4	0 2 5	0 0	0 2	OF	0 2

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

On 8/10/84 at 1412 CDT a spurious spike on radiation monitor GT-RE-22 caused an inadvertent Engineered Safety Feature (ESF) actuation signal initiating a Control Room Ventilation Isolation Signal (CRVIS) and a Containment Purge Isolation Signal (CPIS). The plant was in Mode 4, Hot Shutdown, 0% power at the time of the event. This event is classified as reportable under 10 CFR 50.73(a)(2)(iv).

Technicians were dispatched at the time of the event to determine the cause of the CRVIS and CPIS. The gaseous channel detector for GT-RE-22 was reading an abnormally high background count of approximately 350 counts per minute (CPM) thus placing GT-RE-22 closer to its alarm limit of 1550 CPM. At 1412 CDT the monitor saw a small spike which, when coupled to the elevated background count, produced a momentary ESF actuation signal trip via the gaseous channel analog output. The elevated readings provided by the detector was caused by a noisy gaseous channel detector tube.

On a short-term basis, GT-RE-22, was returned to service by altering the data base at the central minicomputer controller, RM-11, to compensate for the elevated 350 CPM reading caused by the noisy detector tube. This in no way lessens the ability of GT-RE-22 in performing its function. GT-RE-22 was declared operable at 1518 CDT and the CRVIS and CPIS were reset per plant operating procedures at 1522 CDT.

A new scintillator and photomultiplier tube assembly, part No. 02810340-01, has been ordered for GT-RE-22 from the vendor, GA Technologies, and will be installed by approximately 10/1/84.

Spurious alarms have been received on similar monitors and are the subject of continuing investigation as to the cause. This investigation may be a long-term effort and the results will be reported as a supplement to LER 84-004-00 when complete, or by 1/17/85.

No radiation above normal background was present and this event has in no way affected the health or safety of the public.

Previous occurrences: LER 84-004-00

UNION ELECTRIC COMPANY
CALLAWAY PLANT

MAILING ADDRESS:
P.O. BOX 620
FULTON, MO. 65251

September 7, 1984

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

ULNRC-918

DOCKET NUMBER 50-483
CALLAWAY PLANT UNIT 1
LICENSEE EVENT REPORT 84-025-00
INADVERTENT ENGINEERED SAFETY FEATURES ACTUATION

Gentlemen:

The enclosed Licensee Event Report is submitted pursuant to
10 CFR 50.73(a)(2)(iv) concerning an inadvertent Engineered Safety
Features Actuation.



S. E. Miltenberger
Manager, Callaway Plant

See RCW
APN/CDN/WRR/RCW/drs
Enclosure

cc: Distribution attached

IE22
1/1

cc distribution for ULNRC-918

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