

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)

Callaway Plant Unit 1

DOCKET NUMBER (2)

0 5 0 0 0 4 8 3 1 OF 0 2

PAGE (3)

TITLE (4)

Inadvertent Engineered Safety Features Actuation

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	5	0	6	8	5	8	5	0	2	4	0	0	0	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)													
1			X													
POWER LEVEL (10)			100													
20.402(b)			20.405(c)													
20.405(a)(1)(i)			50.73(a)(2)(iv)													
20.405(a)(1)(ii)			50.73(a)(2)(v)													
20.405(a)(1)(iii)			50.73(a)(2)(vi)													
20.405(a)(1)(iv)			50.73(a)(2)(vii)(A)													
20.405(a)(1)(v)			50.73(a)(2)(vii)(B)													
			50.73(a)(2)(viii)													
			50.73(a)(2)(ix)													
			73.71(b)													
			73.71(c)													
			OTHER (Specify in Abstract below and in Text, NRC Form 365A)													

LICENSEE CONTACT FOR THIS LER (12)

NAME

William R. Campbell - Superintendent, Engr.

TELEPHONE NUMBER

AREA CODE

3 1 4 6 7 6 - 8 4 6 9

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

CAUSE	SYSTEM	COMPONENT	MANUFAC- Turer	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFAC- Turer	REPORTABLE TO NRC
X	JK	AMP	G080	N					

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)

On 5/6/85, while in Mode 1, Power Operation, at 100% power, a reactor trip/turbine trip occurred as the result of a Steam Generator (S/G) Lo Lo Level signal. This resulted in the following Engineered Safety Features (ESF) actuations: Feedwater Isolation, Auxiliary Feedwater Actuation and Steam Generator Blowdown Isolation. The equipment actuated by the above ESF signals performed as designed.

This incident occurred as a result of the loss of Main Feedwater (MFW) pump 'B'. An attempt to maintain S/G levels was made by lowering main turbine load. However, the reactor tripped due to a S/G Lo Lo Level signal at 1933 CDT. Investigation revealed that the cause was electronic failure in the governor controller to the MFW pump 'B' turbine control valves.

Corrective actions included replacement of the faulty electronic component. There was no damage to plant equipment or release of radioactivity as a result of this incident. At no time was the public health or safety threatened since the required safety systems performed as designed.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/85

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

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

On 5/6/85 at 1932, the Control Room annunciator status panel indicated Steam Generator (S/G) B, C, and D mismatch flow due to the loss of Main Feedwater (MFW) pump 'B'. The operator immediately began lowering main turbine load in an attempt to maintain S/G levels. At 1933, a reactor trip/turbine trip occurred as a result of a S/G 'A' Lo Lo Level signal. This resulted in the following Engineered Safety Features (ESF) actuations: Feedwater Isolation, Auxiliary Feedwater Actuation and S/G Blowdown Isolation. Prior to this event the plant was in Mode 1, Power Operation, at 100% power. The Engineered Safety Features (ESF) equipment actuated by the above signals performed as designed. Emergency Operating Procedures E-0, Reactor Trip or Safety Injection ES-0.1, Reactor Trip Recovery, were performed and the plant stabilized at 1945.

Corrective actions were initiated with an examination of the MFW pump 'B' turbine governor controls. No problems were identified. At 1525 on 5/7/85, operators were commencing MFW pump 'B' turbine manual startup when the control valves shut unintentionally. Upon further investigation, Instrumentation and Controls technicians discovered the Servo Amplifier Card (General Electric - MDT-20) in the governor controller to the turbine control valves failed to transmit its position signal. This was deemed as the root cause of the reactor trip on 5/6/85. The card was replaced and the MFW pump 'B' turbine was tested satisfactorily. No further corrective action is deemed necessary since this appears to be a random failure.

There was no damage to plant equipment or release of radioactivity as a result of this incident. At no time was the public health or safety threatened since the required safety systems performed as designed.

Previous occurrences: None

UNION ELECTRIC COMPANY
CALLAWAY PLANT

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

May 31, 1985

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

ULNRC-1103

Gentlemen:

DOCKET NUMBER 50-483
CALLAWAY PLANT UNIT 1
FACILITY OPERATING LICENSE NPF-30
LICENSEE EVENT REPORT 85-024-00
INADVERTENT ENGINEERED SAFETY FEATURES ACTUATION

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

S. E. Miltenberger
S. E. Miltenberger
Manager, Callaway Plant

WRC *PLS* *SER*
WRC/WRR/SER/drs
Enclosure

cc: Distribution attached

IE-2
1/1

UNION ELECTRIC COMPANY

CALLAWAY PLANT

cc distribution for ULNRC-1103

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

Mr. James G. Keppler
Regional Administrator
Office of Inspection & Enforcement
U.S. Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Elly, IL 60137

American Nuclear Insurers
c/o Dottie Sherman, Library
The Exchange Suite 245
270 Farmington Avenue
Farmington, CT 06032

Records Center
Institute of Nuclear Power Operations
Suite 1500
1100 Circle 75 Parkway
Atlanta, GA 30339

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