

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Callaway Plant Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 4 8 3 1	PAGE (3) OF 0 2
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TITLE (4)
Inadvertent Auxiliary Feedwater 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)																																													
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<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%;">OPERATING MODE (9) 4</td> <td colspan="10">THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)</td> </tr> <tr> <td rowspan="5">POWER LEVEL (10) 0 0 0</td> <td>20.402(b)</td> <td><input checked="" type="checkbox"/></td> <td>50.73(a)(2)(iv)</td> <td><input type="checkbox"/></td> <td>73.71(b)</td> </tr> <tr> <td>20.405(a)(1)(i)</td> <td><input type="checkbox"/></td> <td>50.73(a)(2)(v)</td> <td><input type="checkbox"/></td> <td>73.71(c)</td> </tr> <tr> <td>20.405(a)(1)(ii)</td> <td><input type="checkbox"/></td> <td>50.73(a)(2)(vi)</td> <td><input type="checkbox"/></td> <td rowspan="3">OTHER (Specify in Abstract below and in Text, NRC Form 365A)</td> </tr> <tr> <td>20.405(a)(1)(iii)</td> <td><input type="checkbox"/></td> <td>50.73(a)(2)(vii)</td> <td><input type="checkbox"/></td> </tr> <tr> <td>20.405(a)(1)(iv)</td> <td><input type="checkbox"/></td> <td>50.73(a)(2)(viii)(A)</td> <td><input type="checkbox"/></td> </tr> <tr> <td>20.405(a)(1)(v)</td> <td><input type="checkbox"/></td> <td>50.73(a)(2)(viii)(B)</td> <td><input type="checkbox"/></td> <td></td> </tr> <tr> <td>20.405(a)(1)(vi)</td> <td><input type="checkbox"/></td> <td>50.73(a)(2)(ix)</td> <td><input type="checkbox"/></td> <td></td> </tr> </table>												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)	20.405(a)(1)(i)	<input type="checkbox"/>	50.73(a)(2)(v)	<input type="checkbox"/>	73.71(c)	20.405(a)(1)(ii)	<input type="checkbox"/>	50.73(a)(2)(vi)	<input type="checkbox"/>	OTHER (Specify in Abstract below and in Text, NRC Form 365A)	20.405(a)(1)(iii)	<input type="checkbox"/>	50.73(a)(2)(vii)	<input type="checkbox"/>	20.405(a)(1)(iv)	<input type="checkbox"/>	50.73(a)(2)(viii)(A)	<input type="checkbox"/>	20.405(a)(1)(v)	<input type="checkbox"/>	50.73(a)(2)(viii)(B)	<input type="checkbox"/>		20.405(a)(1)(vi)	<input type="checkbox"/>	50.73(a)(2)(ix)	<input type="checkbox"/>	
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LICENSEE CONTACT FOR THIS LER (12)

NAME Michael E. Taylor - Superintendent, Operations	TELEPHONE NUMBER AREA CODE: 3 1 4 6 7 6 - 1 8 2 0 7
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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

SUPPLEMENTAL REPORT EXPECTED (14)

<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO	EXPECTED SUBMISSION DATE (15) MONTH: DAY: YEAR:
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ABSTRACT (Limit to 1400 spaces - i.e., approximately fifteen single space typewritten lines) (16)

On 8/22/84 operators were troubleshooting various alarms on the Engineered Safety Features (ESF) status panels when they discovered a "Loss of Main Feed Pump-AFAS Block" window annunciated. Due to confusion arising from lack of indication supporting this alarm, the operator placed the AFAS Block Switch to the PERMIT position in an attempt to clear the above alarm. An Auxiliary Feedwater Actuation Signal (AFAS) was initiated at 2317 CDT.

The Auxiliary Feedwater Pumps were immediately secured, the block switches returned to the BLOCK position, and the AFAS reset. All equipment functioned as designed.

To prevent recurrence, the operators were made aware of this incident and the Operating Supervisor on-duty at the time of the incident was counseled. In addition, the operators will verify inputs to the ESF panels prior to switch manipulation during troubleshooting. If the causes of alarms are certain, an investigation will be made to determine if the alarms are valid.

At no time did plant conditions pose a threat to the public's health or safety.

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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 8 4 - 0 3 4 - 0 0 0 1 2	LER NUMBER (5)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		

TEXT (If more space is required, use additional NRC Form 388A's) (17)

On 8/22/84 at 2317 CDT, an inadvertent Auxiliary Feedwater Actuation occurred. During this event, the plant was in Mode 4 at 0% power.

While troubleshooting various alarms on the Engineered Safety Features (ESF) status panels, operators discovered that a "Loss of Main Feed Pump-AFAS Block" alarm was annunciated for ESFAS Train 'B.' Because no similar alarm on ESFAS Train 'A' nor the Main Feed Pump trip alarms were annunciated, the operator concluded, without further investigation, that there were no valid signals present that could initiate an Auxiliary Feedwater Actuation Signal (AFAS). The operator then attempted to clear the "Loss of MFP-AFAS Block" alarm by placing the AFAS Block Switch to the PERMIT position. An Auxiliary Feedwater Actuation was initiated at this time.

Both Motor-Driven Auxiliary Feedwater Pumps started and Steam Generator Blowdown isolated as designed. The pumps were immediately placed in pull-to-lock, stopping flow into the Steam Generators. The AFAS BLOCK/PERMIT switch was returned to BLOCK, and the AFAS signal was reset.

Further investigation revealed that for a valid "Loss of MFP-AFAS Block" alarm, the operator expected to see two "Main Feed Pump-Tripped" alarms and two "Loss of MFP-AFAS Block" alarms. The DC power supply to the Main Feed Pump control circuitry had been tagged out for maintenance. This de-energized the Main Control Board annunciators for the Main Feed Pump trip alarms. Investigation also revealed that the annunciator lamp for the ESFAS Train 'A' "Loss of MFP-AFAS Block" alarm had failed. Thus, the operator saw no indications of valid inputs to the ESF panels and failed to thoroughly investigate the cause of the single "Loss of MFP-AFAS Block" alarm prior to placing the block switch in PERMIT.

Operators were briefed on this incident and the Operating Supervisor on-duty at the time of the event was counseled. This action was completed by 9/12/84. Operators were also instructed to verify inputs to the ESF panels prior to switch manipulations during troubleshooting. If the validity of alarms are uncertain, appropriate personnel will be called to investigate. This instruction was completed on 8/23/84.

The plant operating mode did not require the Auxiliary Feedwater System to be operable, and no conditions existed which posed a threat to the public health or safety.

Previous occurrences: None

UNION ELECTRIC COMPANY
CALLAWAY PLANT

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

September 21, 1984

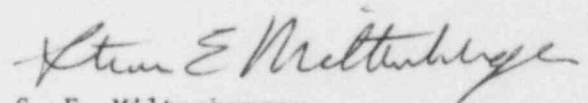
U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

ULNRC-932

DOCKET NUMBER 50-483
CALLAWAY PLANT UNIT 1
FACILITY OPERATING LICENSE NPF-25
LICENSEE EVENT REPORT 84-034-00
INADVERTENT AUXILIARY FEEDWATER ACTUATION

Gentlemen:

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



S. E. Miltenberger
Manager, Callaway Plant

APN/MET/WRR/JMS/drs
Enclosure

cc: Distribution attached

IE22
/1

cc distribution for ULNRC-932

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L. K. Robertson (470)(NSRB)
Merlin Williams, Wolf Creek
SEM Chrono
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N. Date