

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) **Callaway Plant Unit 1** DOCKET NUMBER (2) **05000483** PAGE (3) **1 OF 02**

TITLE (4) **Inadvertent Safety Injection**

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)		
08	13	84	84	028	00	09	11	84		05000		
										05000		

OPERATING MODE (9) **4** THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)

20.402(b)	<input checked="" type="checkbox"/>	20.406(c)	<input type="checkbox"/>	50.73(a)(2)(iv)	<input type="checkbox"/>	73.71(b)	<input type="checkbox"/>
20.406(a)(1)(i)	<input type="checkbox"/>	50.36(c)(1)	<input type="checkbox"/>	50.73(a)(2)(v)	<input type="checkbox"/>	73.71(c)	<input type="checkbox"/>
20.406(a)(1)(ii)	<input type="checkbox"/>	50.36(c)(2)	<input type="checkbox"/>	50.73(a)(2)(vii)	<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)(i)	<input type="checkbox"/>	50.73(a)(2)(viii)(A)	<input type="checkbox"/>		
20.406(a)(1)(iv)	<input type="checkbox"/>	50.73(a)(2)(ii)	<input type="checkbox"/>	50.73(a)(2)(viii)(B)	<input type="checkbox"/>		
20.406(a)(1)(v)	<input type="checkbox"/>	50.73(a)(2)(iii)	<input type="checkbox"/>	50.73(a)(2)(x)	<input type="checkbox"/>		

LICENSEE CONTACT FOR THIS LER (12)

NAME **Charles D. Naslund - Superintendent, I&C** TELEPHONE NUMBER **314 676-185100**

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)

MONTH	DAY	YEAR

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

During performance of a Technical Specification channel calibration, an inadvertent Safety Injection occurred. An Unusual Event was declared due to unplanned initiation of Emergency Core Cooling Systems (ECCS) with discharge to the core. The ECCS actuated as designed, and the plant was restored to a normal configuration in accordance with operating procedures.

This event was initiated when an Instrument and Controls technician placed a Reactor Coolant System (RCS) pressure channel in test during performance of the surveillance procedure. However, one of the redundant pressure loops was failed in the tripped condition due to incorrect design strapping of the associated bistable. This trip went undetected as the associated lamp on the Partial Trip Status Panel had failed and the initial surveillance test for this loop had not yet been performed at the time of this event. Thus, when the loop being calibrated was placed in test, coincidence logic was completed and a Pressurizer Low Pressure signal actuated the Safety Injection.

The failed lamp has been replaced and a design change implemented to correct the false bistable output. A step is being added to applicable I&C surveillance procedures to require a lamp test on the Partial Trip Status Panel prior to putting the instrument channel into the test mode.

At no time did conditions develop which posed a threat to 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 8 4 -	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 4 -	0 2 8 -	0 0	0 2	OF	0 2

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

At 1225 CDT on 8/13/84 an inadvertent Safety Injection (SI) occurred. The plant was in Mode 4 with the RCS at 385 psig and 326°F just prior to this event.

This event occurred during performance of surveillance test ISL-BB-OP455, "Loop-Pressure: Pressurizer Pressure Protection." The SI automatically initiated due to a Pressurizer Low Pressure signal. However, at no time during this event did actual plant parameters require a Safety Injection actuation.

Three of the four instrument channels that monitor RCS pressure feed a permissive circuit (P-11) which permits blocking of the Pressurizer Low Pressure/Steamline Low Pressure SI signals at low RCS pressures. Prior to this event, P-11 was in the "BLOCK" mode as the plant was in Mode 4 and at low RCS pressure. Also, one of the three pressure loops that make up the 2 out of 3 coincidence logic for P-11 was failed in the tripped state due to incorrect strapping on the associated bistable. This design error caused the bistable to provide a tripped output when plant conditions did not require it. This trip went undetected due to failed lamps on the associated window of the Partial Trip Status Panel. Also, the initial surveillance tests had not yet been performed on any of these pressure loops prior to this event. Thus, when the pressure loop being calibrated was placed in test, the required 2 out of 3 coincidence for P-11 was satisfied, the block of the SI signal was automatically reset and the Pressurizer Low Pressure SI signal initiated.

The ECCS actuated and the Boron Injection Tank discharged to the RCS as designed. Per plant procedures, an Unusual Event was declared at 1237 CDT due to unplanned ECCS actuation with discharge to the core. All equipment and personnel responded as expected following the SI. At 1312 CDT, the Unusual Event was terminated, and all systems were restored from the inadvertent SI by 1730 CDT.

To prevent recurrence, the failed lamps in the Partial Trip Status Panel have been replaced and a design change implemented on the bistable that resets P-11 to correct the false output. In addition, a step is being added to the applicable I&C surveillance procedures to require a lamp test on the Partial Trip Status Panel prior to putting an instrument channel in the test mode. Procedure revisions are expected to be complete by 12/7/84.

Although an Unusual Event was declared, at no time did plant conditions pose a threat to the public health or safety.

Previous occurrences: none

UNION ELECTRIC COMPANY
CALLAWAY PLANT

MAILING ADDRESS:
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September 11, 1984

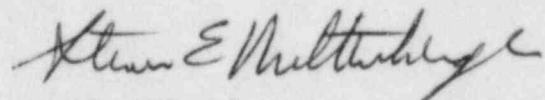
U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

JLNRC-924

DOCKET NUMBER 50-483
CALLAWAY PLANT UNIT 1
FACILITY OPERATING LICENSE NPF-25
LICENSEE EVENT REPORT 84-028-00
INADVERTENT SAFETY INJECTION

Gentlemen:

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



S. E. Miltenberger
Manager, Callaway Plant

APN/CDN/WRR/JMS/drs
Enclosure

cc: Distribution attached

IE22
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cc distribution for ULNRC-924

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