

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 3				PAGE (3) 1 OF 0 3	
TITLE (4) Inadequate Seismic Qualification of Class IE Batteries															
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 4	0 4	8 5	8 5	0 2 1	0 0 0	5 0	6 8	5	LaSalle Plant				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)			20.405(c)			50.73(a)(2)(iv)			73.71(b)			
			20.405(a)(1)(i)			50.36(c)(1)			X 50.73(a)(2)(v)			73.71(c)			
			20.405(a)(1)(ii)			50.36(c)(2)			50.73(a)(2)(vii)			OTHER (Specify in Abstract below and in Text, NRC Form 366A)			
			20.405(a)(1)(iii)			50.73(a)(2)(i)			50.73(a)(2)(viii)(A)						
			20.405(a)(1)(iv)			50.73(a)(2)(ii)			50.73(a)(2)(viii)(B)						
			20.405(a)(1)(v)			50.73(a)(2)(iii)			50.73(a)(2)(ix)						
LICENSEE CONTACT FOR THIS LER (12)															
NAME William R. Campbell - Superintendent, Engineering										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	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC						
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 4/4/85 Union Electric was notified of a potential problem concerning the spacing between the Class IE batteries and the battery racks. This notification was a follow-up effort on an event at LaSalle Plant. The letter describing this potential problem gave a recommended spacing of a maximum of 1/4 inch gap between the battery end cells and the battery rack end stringers. This recommendation was based on spacing used during seismic testing conducted by GNB Batteries Inc.

Upon notification, UE took prompt conservative action to ensure spacing met the criteria specified. Fire retardant plywood spacers were installed between the battery end cells and the battery rack end stringers. Concurrently, evaluations were initiated to determine if this criteria was applicable to Callaway. These evaluations were a joint effort of Union Electric and Bechtel Corporation.

On 4/25/85, it was determined that the spacing requirements were applicable to the Callaway Plant batteries and therefore reportable under 10 CFR 50.73(a)(2)(v). The immediate action taken on 4/4/85 was considered sufficient to resolve the problem; however, a modification request is being evaluated to provide permanent spacers.

There was no damage to plant equipment or release of radioactivity as a result of this incident.

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PDR ADOCK 05000483
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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 9/31/85

FACILITY NAME (1)

DOCKET NUMBER (2)

LER NUMBER (6)

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Callaway Plant Unit 1

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

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

On 4/4/85 Union Electric was notified of a potential reportable incident concerning the spacing between the Class IE battery cells and the battery rack stringers. This notification was a follow-up effort of an event at LaSalle Plant.

The incident involved the four independent Class IE 125-volt d.c. battery systems in the NK system which are identified as NK-11, NK-12, NK-13, and NK-14. In the event of loss of a.c. power, these batteries supply power to the Class IE d.c. loads and for control and switching of the Class IE systems which are required for power generation. The equipment was designed to operate during and after a safe shutdown earthquake. The battery system had been installed per drawings in manual E-050-0016. The drawings show only a minimum gap of 1/8 inch between cell and side stringer. No gap was specified between the battery end cell and the battery rack end stringer.

In a letter to Bechtel dated 3/27/85 GNB Batteries Inc. (GNB), the manufacturer of the batteries, recommended a 1/4 inch gap between the battery end cells and the battery rack end stringers and a 0-3/8 inch gap between battery cell and battery rack side stringer. These dimensions were based on spacing used during seismic testing conducted by GNB.

Upon notification on 4/4/85 Union Electric took prompt action to ensure spacing met the criteria specified. Measurements taken determined that the 3/8 inch spacing between cells and side stringers was maintained. However the measurement between the battery end cells and the battery rack end stringer ranged from 0 to 3/4 inch above the recommended 1/4 inch.

Immediate action taken was to install fire retardant plywood spacers between battery end cells and battery rack end stringers as recommended by GNB. Concurrently, evaluations were initiated to determine if this criteria was used during seismic tests for Callaway batteries. These evaluations were a joint effort of Union Electric and Bechtel Power Corporation.

On 4/25/85, it was determined that the spacing requirements were applicable to the Callaway Plant battery installation and therefore the incident was reportable under 10 CFR 50.73(a)(2)(v). The immediate action was sufficient to obtain the specified gap dimension between the battery end cell and the battery rack end stringer. However, a modification request is being evaluated to install permanent spacers.

There was no damage to plant equipment or release of radioactivity as a result of this incident.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

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

TEXT (If more space is required, use additional NRC Form 305A's) (17)

Although the spacing was not the same as was used during the seismic testing, it is believed the batteries would have performed their intended function during a design bases earthquake and therefore at no time was there a danger to the public health and safety.

UNION ELECTRIC COMPANY
CALLAWAY PLANT

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May 6, 1985

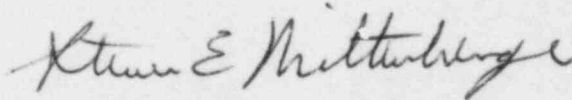
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ULNRC-1089

Gentlemen:

DOCKET NUMBER 50-483
CALLAWAY PLANT UNIT 1
FACILITY OPERATING LICENSE NPF-30
LICENSEE EVENT REPORT 85-021-00
INADEQUATE SEISMIC QUALIFICATION OF CLASS IE BATTERIES

The enclosed Licensee Event Report is submitted pursuant to
10 CFR 50.73(a)(2)(v) concerning spacing between the Class IE
battery cells and battery racks.



S. E. Miltenberger
Manager, Callaway Plant

WRC/WRR/RAP/drs
Enclosure

cc: Distribution attached

IE22
1/1

cc distribution for ULNRC-1089

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