

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)
Palisades Nuclear Plant

DOCKET NUMBER (2)

0 5 0 0 0 2 5 5 1 OF 0 2

PAGE (3)

TITLE (4)

Disconnected Auxiliary Feedwater Pipe Hanger

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 (5)	
02	20	84	84	003	000	04	30	84	NA	0 5 0 0 0	
									NA	0 5 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)																								
POWER LEVEL (10) 0.0	<table border="1"><tr><td>20.402(b)</td><td>20.406(c)</td><td>50.73(a)(2)(iv)</td><td>73.71(b)</td></tr><tr><td>20.406(a)(1)(i)</td><td>50.36(c)(1)</td><td>50.73(a)(2)(v)</td><td>73.71(a)</td></tr><tr><td>20.406(a)(1)(ii)</td><td>50.36(c)(2)</td><td>50.73(a)(2)(vi)</td><td>OTHER (Specify in Abstract below and in Text, NRC Form 306A)</td></tr><tr><td>20.406(a)(1)(iii)</td><td>50.73(a)(2)(i)</td><td>50.73(a)(2)(vii)(A)</td><td></td></tr><tr><td>20.406(a)(1)(iv)</td><td>50.73(a)(2)(ii)</td><td>50.73(a)(2)(vii)(B)</td><td></td></tr><tr><td>20.406(a)(1)(v)</td><td>50.73(a)(2)(iii)</td><td>50.73(a)(2)(ix)</td><td></td></tr></table>	20.402(b)	20.406(c)	50.73(a)(2)(iv)	73.71(b)	20.406(a)(1)(i)	50.36(c)(1)	50.73(a)(2)(v)	73.71(a)	20.406(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 306A)	20.406(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(vii)(A)		20.406(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(vii)(B)		20.406(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(ix)	
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20.406(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 306A)																						
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20.406(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(vii)(B)																							
20.406(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(ix)																							

LICENSEE CONTACT FOR THIS LER (12)
NAME
David W Rogers; Technical Engineer; Palisades Plant

TELEPHONE NUMBER

AREA CODE

616 764-8913

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	
X	B	AH	X 999	N						

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)

On February 20, 1984, while shutdown for refueling, a pipe hanger on auxiliary feedwater piping to the 'B' Steam Generator was discovered to be disconnected from its support strut. The probable cause of the condition was determined to be vibration of auxiliary feedwater piping. Vibration resulted in the loosening of a nut which fastened the hanger to its support strut. Ultimately, the nut became completely un-threaded, causing the observed condition. Evaluation subsequently determined that for a postulated seismic event, the auxiliary feedwater line to the 'B' Steam Generator would be overstressed as a direct result of the disconnected hanger. The hanger will be repaired prior to returning to operation. All hangers on the auxiliary feedwater lines will be inspected for loose components, and be repaired as necessary.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

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

On February 20, 1984, while shutdown for refueling, hanger DBB-2-H59 [H;BA] on the auxiliary feedwater [BA] line running from containment penetration #73 to the auxiliary feedwater nozzle [NZL;BA] on the 'B' Steam Generator (DBB-2-4") was discovered to be disconnected from its support strut. Investigation was initiated to determine the cause and the length of time that the condition had existed. The initial investigation focused on work activities from the current refueling outage which could have resulted in disassembly of the hanger.

Concurrent with this investigation, a walkdown of the individual auxiliary feedwater lines to the nozzles of each steam generator was conducted. Several additional nuts, bolts and washers were found to be missing from pipe supports and clamps along each of the auxiliary feedwater lines.

Subsequently, further investigation was initiated to determine whether the deficiencies in the auxiliary feedwater line supports resulted from original installation. The results of the investigation indicated that the probable cause of the missing components (nuts, washers, bolts) was vibration of the auxiliary feedwater piping during the previous operating cycle. The vibration apparently resulted in a loosening of components until they ultimately became disassembled.

On March 30, 1984, the potential inability to meet seismic design criteria for the auxiliary feedwater lines was reported to the NRC per the requirements of 10 CFR 50.72. Subsequently, evaluation was initiated to assess the impact of the identified deficiencies with respect to a postulated seismic event.

On April 19, 1984, system analysis was completed, resulting in the determination that, for a postulated seismic event, Auxiliary Feedwater Line DBB-2-4" would be overstressed as a direct result of Hanger DBB-2-H59 being disconnected. The analysis also concluded that the additional deficiencies identified would not further impact the seismic design criteria of the auxiliary feedwater piping.

Corrective action of reconnecting Hanger DBB-2-H59 and replacing all missing components will be completed prior to return to operation from the current refueling outage. An inspection of the hangers along the individual auxiliary feedwater lines to the steam generator nozzles will be conducted prior to start-up, to identify and repair any additional loose components.



Consumers
Power
Company

General Offices: 1945 West Parnall Road, Jackson, MI 49201 • (517) 788-0550

April 30, 1984

US Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

DOCKET 50-255 - LICENSE DPR-20 -
PALISADES PLANT - LICENSEE EVENT REPORT 84-003 (DISCONNECTED AUXILIARY
FEEDWATER PIPE HANGER)

Attached please find Licensee Event Report 84-003 (Disconnected Auxiliary
Feedwater Pipe Hanger) which is reportable to the NRC per 10 CFR 50.73.

Brian D Johnson
Staff Licensing Engineer

CC Administrator, Region III, USNRC
Director, Office of Nuclear Reactor Regulation
NRC Resident Inspector - Palisades

Attachment

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