

January 7, 2002

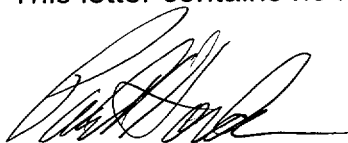
U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

**DOCKET 50-255 - LICENSE DPR-20 - PALISADES NUCLEAR PLANT**  
LICENSEE EVENT REPORT 01-005, CONTAINMENT SUMP CHECK VALVES /  
REDUCED AVAILABLE NET POSITIVE SUCTION HEAD

Licensee Event Report (LER) 01-005 is attached. The LER describes the discovery that the head loss through the containment sump check valves would have resulted in reduced available net positive suction head (NPSH) for the high pressure safety injection pumps and containment spray pumps during recirculation mode operation. This condition is potentially reportable in accordance with 10 CFR 50.73(a)(2)(ii), (v) and/or (vii), pending completion of the operability evaluation.

SUMMARY OF COMMITMENTS

This letter contains no new commitments and no revisions to existing commitments.



Paul A. Harden  
Director, Engineering

CC Regional Administrator, USNRC, Region III  
Project Manager, USNRC, NRR  
NRC Resident Inspector, Palisades

Attachment

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<b>NRC FORM 366</b> (7-2001)			<b>U.S. NUCLEAR REGULATORY COMMISSION</b>			<b>APPROVED BY OMB NO. 3150-0104</b> <b>EXPIRES 7-31-2004</b> Estimated burden per response to comply with this mandatory information collection request: 50 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the Records Management Branch (T-6 E6), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to bjs1@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202 (3150-0104), Office of Management and Budget, Washington, DC 20503. If a means used to impose information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.							
<b>LICENSEE EVENT REPORT (LER)</b> (See reverse for required number of digits/characters for each block)													
<b>1. FACILITY NAME</b> PALISADES NUCLEAR PLANT						<b>2. DOCKET NUMBER</b> 05000255			<b>3. PAGE</b> 1 OF 2				
<b>4. TITLE</b> CONTAINMENT SUMP CHECK VALVES / REDUCED AVAILABLE NET POSITIVE SUCTION HEAD													
<b>5. EVENT DATE</b>			<b>6. LER NUMBER</b>			<b>7. REPORT DATE</b>			<b>8. OTHER FACILITIES INVOLVED</b>				
MO	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REV NO	MO	DAY	YEAR	FACILITY NAME	DOCKET NUMBER			
11	07	2001	2001	005	00	01	07	2002		05000			
<b>9. OPERATING MODE</b> 5			<b>11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check all that apply)</b>										
			20.2201(b)			20.2203(a)(3)(ii)			X	50.73(a)(2)(ii)(B)		50.73(a)(2)(ix)(A)	
<b>10. POWER LEVEL</b> 000			20.2201(d)			20.2203(a)(4)				50.73(a)(2)(iii)		50.73(a)(2)(x)	
			20.2203(a)(1)			50.36(c)(1)(i)(A)				50.73(a)(2)(iv)(A)		73.71(a)(4)	
			20.2203(a)(2)(i)			50.36(c)(1)(ii)(A)				50.73(a)(2)(v)(A)		73.71(a)(5)	
			20.2203(a)(2)(ii)			50.36(c)(2)			X	50.73(a)(2)(v)(B)		OTHER Specify in Abstract below or in NRC Form 366A	
			20.2203(a)(2)(iii)			50.46(a)(3)(ii)				50.73(a)(2)(v)(C)			
			20.2203(a)(2)(iv)			50.73(a)(2)(i)(A)			X	50.73(a)(2)(v)(D)			
			20.2203(a)(2)(v)			50.73(a)(2)(i)(B)			X	50.73(a)(2)(vii)			
			20.2203(a)(2)(vi)			50.73(a)(2)(i)(C)				50.73(a)(2)(viii)(A)			
			20.2203(a)(3)(i)			50.73(a)(2)(ii)(A)				50.73(a)(2)(viii)(B)			
<b>12. LICENSEE CONTACT FOR THIS LER</b>													
<b>NAME</b> Daniel G. Malone, Regulatory Compliance Supervisor						<b>TELEPHONE NUMBER (Include Area Code)</b> (616) 764-2463							
<b>13. COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT</b>													
CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX	CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX				
<b>14. SUPPLEMENTAL REPORT EXPECTED</b>								<b>15. EXPECTED SUBMISSION DATE</b>		MONTH	DAY	YEAR	
X	YES (If yes, complete EXPECTED SUBMISSION DATE)				NO						02	15	2002
<b>16. ABSTRACT</b> (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines)													
<p>On November 7, 2001, at approximately 1414 hrs, with the plant in Mode 5, evaluation of the preliminary results from mock-up testing of containment sump check valves determined that the head loss characteristics of the check valves were greater than previously assumed by calculations that support safety analyses. The result of increased head loss through the containment sump check valves is reduced available net positive suction head (NPSH) for the high pressure safety injection pumps and the containment spray pumps during recirculation mode following a loss of cooling accident (LOCA). A comprehensive review of both the available NPSH and the required NPSH for these pumps was subsequently performed which confirmed insufficient NPSH. Evaluation of the past operability of the pumps with reduced NPSH is incomplete at this time. Safety significance is pending completion of the past operability evaluation. The cause of the condition remains under evaluation. Restoration of sufficient NPSH for the pumps will be achieved prior to plant restart.</p>													

**LICENSEE EVENT REPORT (LER)**

1. FACILITY NAME	2. DOCKET	6. LER NUMBER			3. PAGE
PALISADES NUCLEAR PLANT	05000255	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	2 OF 2
		2001	- 005 -	00	

17. NARRATIVE (If more space is required, use additional copies of NRC Form 366A)

**EVENT DESCRIPTION**

On November 7, 2001, at approximately 1414 hrs, with the plant in Mode 5, evaluation of the preliminary results from mock-up testing of containment sump check valves [V;BP] determined that the head loss characteristics of the check valves were greater than previously assumed by calculations that support safety analyses. The result of increased head loss through the containment sump check valves is reduced available net positive suction head (NPSH) for the high pressure safety injection pumps [P;BQ] and the containment spray pumps [P;BE] during recirculation mode following a loss of cooling accident (LOCA). A comprehensive review of both the available NPSH and the required NPSH for these pumps was subsequently performed which confirmed insufficient NPSH. Evaluation of the past operability of the pumps with reduced NPSH is incomplete at this time.

**SAFETY SIGNIFICANCE**

Safety significance is pending completion of the past operability evaluation.

**CAUSE OF THE EVENT**

The cause of the condition remains under evaluation.

**CORRECTIVE ACTIONS**

Corrective actions are pending completion of the condition evaluation. Restoration of sufficient NPSH for the pumps will be achieved prior to plant restart.

**PREVIOUS LERs**

None