



Public Service Electric and Gas Company P.O. Box L Hancocks Bridge, New Jersey 08038

Hope Creek Operations

May 18, 1988

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

Dear Sir:

HOPE CREEK GENERATING STATION  
DOCKET NO. 50-354  
UNIT NO. 1  
SPECIAL REPORT 88-004-00

This Special Report is being submitted pursuant to the requirements of Hope Creek Technical Specification 3.3.7.9.

Sincerely,

*S. LaBruna*  
S. LaBruna  
General Manager -  
Hope Creek Operations

AME:

Attachment  
SORC Mtg. 88-074

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LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Hope Creek Generating Station	DOCKET NUMBER (2) 0 5 0 0 0 3 5 4	PAGE (3) 1 OF 0 3
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TITLE (4) Channel 2 Loose Parts Monitor (LPM) Inoperable for More Than Thirty (30) Days - Cause Undetermined

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 9	8 8	8 8	N / A		0 5	1 8	8 8		0 5 0 0 0 0
										0 5 0 0 0 0

OPERATING MODE (9) 4	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)				
POWER LEVEL (10) 0 0 0	<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.406(c)	<input type="checkbox"/> 50.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)	OTHER (Specify in Abstract below and in Text, NRC Form 366A) <b>SPECIAL REPORT</b> 88-004
	<input type="checkbox"/> 20.406(a)(1)(ii)	<input type="checkbox"/> 50.36(a)(1)	<input type="checkbox"/> 50.73(a)(2)(v)	<input type="checkbox"/> 73.71(a)	
	<input type="checkbox"/> 20.406(a)(1)(iii)	<input type="checkbox"/> 50.36(a)(2)	<input type="checkbox"/> 50.73(a)(2)(vi)	<input checked="" type="checkbox"/> X	
	<input type="checkbox"/> 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)(iv)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(ix)			

LICENSEE CONTACT FOR THIS LER (12)	
NAME A. M. Ervin, Lead Engineer - Technical	TELEPHONE NUMBER AREA CODE: 6 0 9    3 3 9 - 5 2 3 9

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)										
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	

SUPPLEMENTAL REPORT EXPECTED (14)			EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)	<input checked="" type="checkbox"/> NO					

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

On April 9, 1988 at 0930 hours, The Plant was in OPERATIONAL CONDITION 4 (Cold Shutdown) at 0% power generating 0 MWe. At that time Channel 2 LPM was determined to be inoperable. A 60 Hz noise in the LPM output was observed. The action statement of Technical Specification 3.3.7.9 was entered. Since the LPM was not repaired within 30 days, a ten (10) day Special Report is required. The root cause of this occurrence has not been determined but is presumed to be either a malfunction of LPM sensors or a faulty cable. The repair of the channel 2 LPM is scheduled for the next planned cold shutdown outage.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)  Hope Creek Generating Station	DOCKET NUMBER (2)  0 5 0 0 0 3 5 4	LER NUMBER (8)			PAGE (3)		
		YEAR 8 8	SEQUENTIAL NUMBER - N / A -	REVISION NUMBER			
					0 2	OF 0 3	

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

PLANT AND SYSTEM IDENTIFICATION

General Electric - Boiling Water Reactor (BWR/4)  
Loose Parts Monitoring System (EIIS Designator:II)

IDENTIFICATION OF OCCURRENCE

Channel 2 Loose Parts Monitor (LPM) Inoperable for More Than Thirty (30) Days - Cause Undetermined

Event Date: April 9, 1988  
Event Time 0930 Hours  
This LER was initiated by Incident Report No. 88-091

CONDITIONS PRIOR TO OCCURRENCE

The Plant was in OPERATIONAL CONDITION 4 (Cold Shutdown) at 0% power generating 0 MWe.

DESCRIPTION OF OCCURRENCE

On April 9, 1988 at 0930 hours, Channel 2 LPM was determined to be inoperable. A 60 Hz noise in the LPM output was observed. The action statement of Technical Specification 3.3.7.9 was entered. Since the LPM was not repaired within 30 days, a ten (10) day Special Report is required.

APPARENT CAUSE OF OCCURRENCE

The root cause of this occurrence has not been determined but is presumed to be either a malfunction of LPM sensors or a faulty cable.

ANALYSIS OF OCCURRENCE

The Channel 2 LPM passed its channel calibration during the refueling outage with the 60 Hz noise present. The LPM was declared inoperable because it failed the daily channel check due to the presence of the 60 Hz noise. However, significant loose parts signals are normally in the 20 KHz range and would be detectable above the 60 Hz noise as confirmed by the channel calibration.

When Channel 2 of the LPM System was declared inoperable, the plant was returning to power from a refueling outage. On April 13, 1988 the reactor was in OPERATIONAL CONDITION 2 at 3% power when an attempt was made to troubleshoot and repair the LPM by changing out the charge amplifiers. This repair, however, did not eliminate the 60 Hz noise. Further troubleshooting and/or repair of this problem was postponed because the temperature

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
			- N / A -		0 3	OF	0 3

TEXT (if more space is required, use additional NRC Form 306A's) (17)

ANALYSIS OF OCCURRENCE (CONTINUED)

at the higher drywell elevation where the sensors and cables are located was already above workplace standards for non-emergency occupancy.

Following the scram which occurred on April 30, 1988, a drywell entry to attempt further repair was considered again. Again, it was concluded that the high temperature in the drywell made entry for an extended time unacceptable.

PREVIOUS OCCURRENCES

A previous occurrence in which The Loose Parts Monitoring System (LPMS) was declared inoperable was reported in Special Report 86-002-00. On that occasion the LPMS was declared inoperable because of inadequate calibration. The return of the LPMS to operability was delayed by deficiencies in vendor information and components.

SAFETY ASSESSMENT

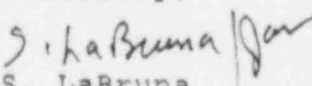
The LPMS is intended to be used for information purposes only and is not a safety-related system. For this reason the declared inoperability of one channel of the LPMS cannot compromise the health and safety of the public.

REPORTABILITY

This report is being submitted pursuant to the requirements of Technical Specification 3.3.7.9.

CORRECTIVE ACTIONS

1. The repair of the channel 2 LPM is scheduled for the next planned cold shutdown outage.

Sincerely,  
  
 S. LaBruna  
 General Manager -  
 Hope Creek Operations

AME:  
 SORC Mtg. 88-074