

PSEG Nuclear LLC
P.O. Box 236, Hancocks Bridge, New Jersey 08038-0236



AUG 23 2012
LR-N12-0264

10CFR50.73

United States Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-001

Hope Creek Generating Station Unit 1
Facility Operating License No. NPF-57
Docket No. 50-354

Subject: Licensee Event Report 2012-005-00

In accordance with 10 CFR 50.73(a)(2)(i)(B), PSEG Nuclear LLC is submitting Licensee Event Report (LER) Number 2012-005-00, RCIC Bearing Low Oil Pressure Indication on Remote Shutdown Panel Inoperable.

Should you have any questions concerning this letter, please contact Mr. Paul Bonnett at (856) 339-1923.

No regulatory commitments are contained in the LER.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric S. Carr", written over a horizontal line.

Eric S. Carr
Plant Manager
Hope Creek Generating Station

Attachment: Licensee Event Report 2012-005-00

IE22
NRR

Document Control Desk

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cc: Mr. W. Dean, Regional Administrator – Region 1
U.S. Nuclear Regulatory Commission
2100 Renaissance Blvd, Suite 100
King of Prussia, PA 19406-2713

Mr. J. Hughey, Project Manager
U.S. Nuclear Regulatory Commission
One White Flint North
Mail Stop O8 B1A
11555 Rockville Pike
Rockville, MD 20852

USNRC Senior Resident Inspector – Hope Creek (X24)

P. Mulligan, Manager
Bureau of Nuclear Engineering\
New Jersey Department of Environmental Protection
PO Box 420
Trenton, NJ 08625

Hope Creek Commitment Tracking Coordinator (H02)

INPO – LEREvents@INPO.org

LICENSEE EVENT REPORT (LER)

(See reverse for required number of digits/characters for each block)

Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the Records and FOIA/Privacy Service Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@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 an 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.

1. FACILITY NAME Hope Creek Generating Station	2. DOCKET NUMBER 05000354	3. PAGE 1 OF 3
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4. TITLE
RCIC Bearing Low Oil Pressure Indication on Remote Shutdown Panel Inoperable

5. EVENT DATE			6. LER NUMBER			7. REPORT DATE			8. OTHER FACILITIES INVOLVED	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REV NO.	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER
07	15	2012	2012	- 005 -	000	08	23	2012	N/A	
									FACILITY NAME	DOCKET NUMBER
									N/A	

9. OPERATING MODE 1	11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR§: (Check all that apply)									
10. POWER LEVEL 100	<input type="checkbox"/> 20.2201(b)	<input type="checkbox"/> 20.2203(a)(3)(i)	<input type="checkbox"/> 50.73(a)(2)(i)(C)	<input type="checkbox"/> 50.73(a)(2)(vii)						
	<input type="checkbox"/> 20.2201(d)	<input type="checkbox"/> 20.2203(a)(3)(ii)	<input type="checkbox"/> 50.73(a)(2)(ii)(A)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)						
	<input type="checkbox"/> 20.2203(a)(1)	<input type="checkbox"/> 20.2203(a)(4)	<input type="checkbox"/> 50.73(a)(2)(ii)(B)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)						
	<input type="checkbox"/> 20.2203(a)(2)(i)	<input type="checkbox"/> 50.36(c)(1)(i)(A)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(ix)(A)						
	<input type="checkbox"/> 20.2203(a)(2)(ii)	<input type="checkbox"/> 50.36(c)(1)(ii)(A)	<input type="checkbox"/> 50.73(a)(2)(iv)(A)	<input type="checkbox"/> 50.73(a)(2)(x)						
	<input type="checkbox"/> 20.2203(a)(2)(iii)	<input type="checkbox"/> 50.36(c)(2)	<input type="checkbox"/> 50.73(a)(2)(v)(A)	<input type="checkbox"/> 73.71(a)(4)						
	<input type="checkbox"/> 20.2203(a)(2)(iv)	<input type="checkbox"/> 50.46(a)(3)(ii)	<input type="checkbox"/> 50.73(a)(2)(v)(B)	<input type="checkbox"/> 73.71(a)(5)						
	<input type="checkbox"/> 20.2203(a)(2)(v)	<input type="checkbox"/> 50.73(a)(2)(i)(A)	<input type="checkbox"/> 50.73(a)(2)(v)(C)	<input type="checkbox"/> OTHER						
	<input type="checkbox"/> 20.2203(a)(2)(vi)	<input checked="" type="checkbox"/> 50.73(a)(2)(i)(B)	<input type="checkbox"/> 50.73(a)(2)(v)(D)	Specify in Abstract below or in NRC Form 366A						

12. LICENSEE CONTACT FOR THIS LER

FACILITY NAME Paul Bonnett, Sr. Compliance Engineer	TELEPHONE NUMBER (Include Area Code) 856-339-1923
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13. COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO EPIX	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO EPIX
A	JL	IL		N					

14. SUPPLEMENTAL REPORT EXPECTED <input type="checkbox"/> YES (If yes, complete 15. EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO	15. EXPECTED SUBMISSION DATE	<u>MONTH</u>	<u>DAY</u>	<u>YEAR</u>
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ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines)

On July 15, 2012, the performance of monthly surveillance HC.OP-ST.SV-0001, "Remote Shutdown Monitoring Instrumentation Channel Check – Monthly," identified that the remote indication for the Reactor Core Isolation Cooling (RCIC) Bearing Oil Low Pressure Alarm was INOPERABLE. The Shift Manager entered the action statement for Technical Specification (TS) 3.3.7.4. Preliminary investigation showed that normally energized relay E51-K58 had malfunctioned. The relay was replaced and OPERABILITY restored on July 16, 2012. During the investigation into the cause of the failed indication, the Work Control Senior Reactor Operator reviewed the surveillance performed in June 2012 and found that the alarm was extinguished and incorrectly documented in the test as satisfactory. The Control Room Supervisor (CRS) who reviewed and approved the June surveillance also missed the error and subsequently signed off the completed test as satisfactory. Therefore, the RCIC Bearing Oil Low Pressure Alarm Indication on the Remote Shutdown Panel had been INOPERABLE since June 16, 2012.

The cause of the event was inattention to detail by the Operator performing the surveillance in June and inattention by the CRS reviewing the surveillance. Both operators were delimitated and remedial training was completed prior to resuming licensed operator duties.

This condition is reportable under 10 CFR 50.73(a)(2)(i)(B) for a condition prohibited by Tech Specs.

CONTINUATION SHEET

1. FACILITY NAME	2. DOCKET	6. LER NUMBER			3. PAGE
Hope Creek Generating Station	05000354	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	2 OF 3
		2012	- 005	- 000	

NARRATIVE

PLANT AND SYSTEM IDENTIFICATION

General Electric – Boiling Water Reactor (BWR/4)
 Remote Shutdown Panel (JL)– EIS Identifier {JL/IL}*
 RCIC System (BN) – EIS Identifier {BN/PA}*
 *Energy Industry Identification System {EIS} codes and component function identifier codes appear as {SS/CCC}

IDENTIFICATION OF OCCURRENCE

Event Date: June 16, 2012
 Discovery Date: July 15, 2012

CONDITIONS PRIOR TO OCCURRENCE

Hope Creek was in Operational Condition 1 at 100 percent rated thermal power (RTP). No structures, systems, or components were INOPERABLE at the start of this event or contributed to the event.

DESCRIPTION OF OCCURRENCE

On Sunday, July 15, 2012, the performance of monthly surveillance HC.OP-ST.SV-0001, "Remote Shutdown Monitoring Instrumentation Channel Check – Monthly," to satisfy the requirements of Technical Specification (TS) 3.3.7.4, identified that the remote indication for the Reactor Core Isolation Cooling (RCIC) Bearing Oil Low Pressure Alarm {BN/PA} was not functional. Normally, this alarm is illuminated when RCIC is out of service, but the alarm indication was found extinguished resulting in an INOPERABLE Remote Shutdown Panel (RSP) indication {JL/IL} and entry into a seven-day TS Action Statement.

Investigation of the failed RSP indication showed that contact T1-M1 on normally energized relay E51-K58 was open when it should have been closed. The relay was replaced, retested, and the TS Action was exited on July 16, 2012.

During the investigation into the cause of the failed indication, the Work Control Senior Reactor Operator reviewed the surveillances performed on June 16, 2012, and May 13, 2012. The surveillance performed in May was completed satisfactory; however, the June surveillance showed this alarm extinguished when it should have been illuminated. The Operator completing the surveillance in June incorrectly documented the test as satisfactory. The RCIC indication was marked as "extinguished" and the step signed off as "SAT", when it should have been marked as "UNSAT". The Control Room Supervisor (CRS) who reviewed and approved the completed June surveillance did not identify the error and subsequently signed off the completed test as satisfactory. The condition went undetected until the next performance of HC.OP-ST.SV-0001 on July 15, 2012.

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NARRATIVE

CAUSE OF EVENT

The cause of this condition was inattention to detail by the Operator performing the surveillance in June for not identifying the failed indication and incorrectly documenting the surveillance acceptance criteria. A contributing factor was that the surveillance was reviewed by a recently licensed SRO and the error in documentation by the performing operator was not identified during this review. The SRO signed the completed test as satisfactory. Both operators were delimited and remedial training was completed prior to resuming licensed operator duties.

Investigation of the failed RSP indication showed that contact T1-M1 on normally energized relay E51-K58, for the RCIC Bearing Low Oil Pressure indication, was open when it should have been closed. The failed relay was replaced and retested under corrective maintenance.

SAFETY CONSEQUENCES AND IMPLICATIONS

The RCIC Bearing Low Oil Pressure alarm in the Remote Shutdown Panel is indication only. There is no RCIC system trip on low oil pressure. The failure of this indication would not prevent the RCIC system from performing its design function and no safety consequences result from this failure. Therefore, a Safety System Functional Failure (SSFF) did not occur as defined in Nuclear Energy Institute (NEI) 99-02.

PREVIOUS OCCURRENCES

A review of Licensee Event Reports for the past three years at Hope Creek was performed to determine if a similar event had occurred. No similar missed surveillance test events were noted.

CORRECTIVE ACTIONS

1. The failed relay E51-K58 was replaced and retested satisfactory under corrective maintenance.
2. The operator performing the surveillance in June and reviewing SRO were both delimited and remedial training was completed prior to resuming licensed operator duties.
3. The failed relay was quarantined and shipped to an outside vendor for failure analysis.
4. An Apparent Cause Evaluation is being performed to determine any additional causes or contributing factors that lead to the human performance breakdown and to determine the failure mechanism of the relay.

COMMITMENTS

This LER contains no regulatory commitments.