



FEB 18 2014

10CFR50.73

LR-N14-0044

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

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

Subject: Licensee Event Report 2013-010-00

In accordance with the requirements of 10 CFR 50.73(a)(2)(v)(D), PSEG Nuclear LLC is submitting the enclosed Licensee Event Report (LER) Number 2013-010-00, "Loss of Both Control Room Chillers."

If you have any questions or require additional information, please contact Philip Duca at (856) 339-1640.

There are no regulatory commitments contained in this letter.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric S. Carr", with a long horizontal flourish extending to the right.

Eric S. Carr
Plant Manager
Hope Creek Generating Station

Attachment: Licensee Event Report 2013-010-00

cc: W. Dean, Regional Administrator – Region I, NRC
J. Hughey, Project Manager - US NRC
NRC Senior Resident Inspector – Hope Creek (X24)
P. Mulligan, Manager, NJBNE
LER uploaded to ICES
Hope Creek Commitment Tracking Coordinator (H02)
L. Marabella - Corporate Commitment Tracking Coordinator (N21)



LICENSEE EVENT REPORT (LER)
(See Page 2 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 FOIA, Privacy and Information Collections Branch (T-5 F53); U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet e-mail to Infocollects.Resource@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

05000 354

3. PAGE

1 OF 3

4. TITLE

Loss of Both Control Room Chillers

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
12	20	2013	2013	010	00	02	18	2014	N/A	05000
									N/A	05000

9. OPERATING MODE	11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check all that apply)			
1	<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)
100	<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 type="checkbox"/> 50.73(a)(2)(i)(B)	<input checked="" type="checkbox"/> 50.73(a)(2)(v)(D)	Specify in Abstract below or in NRC Form 366A

12. LICENSEE CONTACT FOR THIS LER

LICENSEE CONTACT Philip J. Duca, Senior Compliance Engineer	TELEPHONE NUMBER (Include Area Code) (856) 339-1640
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13. COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT

CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX	CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX
X	VI	CHU	C150	Y					

14. SUPPLEMENTAL REPORT EXPECTED

YES (If yes, complete 15. EXPECTED SUBMISSION DATE) NO

15. EXPECTED SUBMISSION DATE

MONTH	DAY	YEAR
03	14	2014

ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines)

On 12/20/13 at 1303, while the B Control Room Chiller was inoperable following planned maintenance, the A Control Room Chiller was manually secured due to excessive fluctuations in load. The Technical Specification action statement (TS 3.7.2.2 Action a.2) for both Control Room Air Conditioning subsystems inoperable was entered.

Concurrent inoperability of both control room chillers is reportable per 50.73(a)(2)(v)(D), an event or condition that could have prevented the fulfillment of the safety function of structures or systems that are needed to mitigate the consequences of an accident.

At 2120 on 12/20/13, the B Control Area Ventilation Train and Chiller were placed in service for post-maintenance testing, returned to operable status, and the action statement was exited.

Throughout the time both chillers were inoperable, the control room temperature was maintained below the TS limit of 90 degrees F.

A causal evaluation is in progress to determine the cause of the excessive fluctuations in load of the A Control Room Chiller. The results of the evaluation will be published in a supplement to this LER.



**LICENSEE EVENT REPORT (LER)
CONTINUATION SHEET**

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 FOIA, Privacy and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@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	2. DOCKET	6. LER NUMBER			3. PAGE
Hope Creek Generating Station	05000 354	YEAR	SEQUENTIAL NUMBER	REV NO.	2 OF 3
		2013	- 010	- 00	

NARRATIVE

PLANT AND SYSTEM IDENTIFICATION

General Electric – Boiling Water Reactor {BWR/4}
 Control Building Environmental Control System - EIS Identifier {VI}
 Control Room Chiller - EIS Identifier {CHU}

* Energy Industry Identification System {EIS} codes and component function identifier codes appear as {SS/CCC}

IDENTIFICATION OF EVENT

Event Date: December 20, 2013
 Discovery Date: December 20, 2013

CONDITIONS PRIOR TO EVENT

Hope Creek was in Operational Condition (OPCON) 1 operating at 100 percent rated thermal power. The B Control Room Chiller {CHU} was inoperable following planned maintenance. There was no other equipment out of service that would have impacted this event.

DESCRIPTION OF EVENT

On 12/20/13 at 1303, while the B Control Room Chiller was inoperable following planned maintenance, the A Control Room Chiller {CHU} was manually secured due to excessive fluctuations in load. The Technical Specification action statement (TS 3.7.2.2 Action a.2) for both Control Room Air Conditioning {VI} subsystems inoperable was entered.

An eight-hour NRC ENS notification was required by 10CFR50.72(b)(3)(v)(D) for an event or condition that could have prevented fulfillment of a safety function of structures or systems needed to mitigate the consequences of an accident. The ENS notification (#49671) was completed at 2010 on 12/20/13. This LER is being submitted pursuant to the requirements of 10 CFR 50.73(a)(2)(v)(D).

At 2120 on 12/20/13, the B Control Area Ventilation Train and Chiller were placed in service for post-maintenance testing, returned to operable status, and the action statement was exited.

CAUSE OF EVENT

The cause of this event was the concurrent loss of operability of both control room chillers.

The B Control Room Chiller, while available, was inoperable as it had not yet been tested following planned maintenance.

The A Control Room Chiller was removed from service due to excessive fluctuations in load.

A causal evaluation is in progress to determine the cause of the A Control Room Chiller excessive fluctuations in load. The results of the evaluation will be published in a supplement to this LER.

**LICENSEE EVENT REPORT (LER)
CONTINUATION SHEET**

1. FACILITY NAME	2. DOCKET	6. LER NUMBER			3. PAGE
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NARRATIVE

SAFETY CONSEQUENCES AND IMPLICATIONS

The Control Room Envelope (CRE) Heating, Ventilation and Air Conditioning (HVAC) Systems are designed to ensure habitability during any design basis radiological accident. Redundant HVAC systems are provided to control the ambient conditions for safety-related equipment, to ensure operating temperature limits are not exceeded. The chillers provide the accident function of maintaining the temperature of the CRE for equipment performance and operator comfort.

There were no actual safety consequences because of this event and potential safety consequences were minimal. The B Control Room Chiller was available and was returned to service at 2120 on 12/20/13.

Throughout the time both chillers were inoperable, the control room temperature was maintained below the TS limit of 90 degrees F.

SAFETY SYSTEM FUNCTIONAL FAILURE

A review of this event determined that a Safety System Functional Failure (SSFF) did occur as defined in Nuclear Energy Institute (NEI) 99-02, "Regulatory Assessment Performance Indicator Guideline."

The control room chillers provide the accident function of maintaining the temperature of the control room envelope for equipment performance and operator comfort. Therefore, both chillers being out of service at the same time was an event or condition that could have prevented the fulfillment of the safety function of structures or systems that are needed to mitigate the consequences of an accident.

PREVIOUS EVENTS

A review of events for the past three years at Hope Creek was performed to determine if a similar event had occurred. No similar events were identified.

CORRECTIVE ACTIONS

At 2120 on 12/20/13, the B Control Area Ventilation Train and Chiller were placed in service for post-maintenance testing, returned to operable status, and the action statement was exited.

COMMITMENTS

This LER contains no commitments.