

DEC 1 0 2013

LR-N13-0254

10CFR50.73

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 2013-004-00

In accordance with 10 CFR 50.73(a)(2)(i)(B), PSEG Nuclear LLC is submitting Licensee Event Report (LER) Number 2013-004-00, "Operations With A Potential To Drain The Reactor Vessel (OPDRV) Without Secondary Containment."

If you have any questions or require additional information, please contact Mr. Paul Bonnett at (856) 339-1923.

There are no regulatory commitments contained in this letter.

Sincerely,

Eric S. Carr Plant Manager

Hope Creek Generating Station

Attachment: Licensee Event Report 2013-004-00

LR-N13-0254 Page 2 of 2

CÇ: 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

P. Bonnett - Hope Creek Commitment Tracking Coordinator (H02)

L. Marabella - Corporate Commitment Tracking Coordinator (N21)

(10-2010)							E r li	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.							
(See reverse for required number of digits/characters for each block)								c r i	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.						
FACILITY NAME     Hope Creek Generating Station								2		CKET NUMBER         3. PAGE           05000354         1 OF 3					
4. TITLE Ope		s With	A Pote	ential To	Orain <sup>·</sup>	The Rea	actor Ve	essel (C	PDRV	/) Witho	ut Sec	onda	ary Cont	ainment	
5. E	/ENT D	ATE	6. LER NUMBER			7. REPORT DATE						FACILITIES INVOLVE			
MONTH	DAY	YEAR	YEAR	SEQUENTIA NUMBER	L REV NO.	MONTH	DAY	YEAR	N/A				DOCKET NUMB		
10	15	2013	2013	- 004		12	10	2013	FACILITY N/A		DOCKET NUMBER				
9. OPER	ATING	MODE	11.	THIS REP	ORT IS	SUBMITTI	ED PURS	UANT TO	THE RE	QUIREMI	ENTS OF	10 C	FR§: (Che	ck all that	apply)
5			☐ 20.2201(b) ☐ 20.2201(d) ☐ 20.2203(a)(1) ☐ 20.2203(a)(2)(i) ☐ 20.2203(a)(2)(ii) ☐ 20.2203(a)(2)(iii)			☐ 20.2203(a)(3)(i) ☐ 20.2203(a)(3)(ii) ☐ 20.2203(a)(4) ☐ 50.36(c)(1)(i)(A) ☐ 50.36(c)(1)(ii)(A)			☐ 50.73(a)(2)(i)(C) ☐ 50.73(a)(2)(ii)(A) ☐ 50.73(a)(2)(ii)(B) ☐ 50.73(a)(2)(iii) ☐ 50.73(a)(2)(iv)(A) ☐ 50.73(a)(2)(v)(A)			☐ 50.73(a)(2)(vii) ☐ 50.73(a)(2)(viii)(A) ☐ 50.73(a)(2)(viii)(B) ☐ 50.73(a)(2)(ix)(A) ☐ 50.73(a)(2)(x) ☐ 73.71(a)(4)			i)(A) i)(B)
000			☐ 20.22 ☐ 20.22	203(a)(2)(iv 203(a)(2)(v) 203(a)(2)(vi		☐ 50.36(c)(2) ☐ 50.46(a)(3)(ii) ☐ 50.73(a)(2)(i)(A) ☐ 50.73(a)(2)(i)(B)			50.73(a)(2)(v)(B) 50.73(a)(2)(v)(C) 50.73(a)(2)(v)(D)			73.71(a)(5)			
12. LICENSEE CONTACT FOR THIS LER  FACILITY NAME Paul Bonnett, Sr. Compliance Engineer  12. LICENSEE CONTACT FOR THIS LER  TELEPHONE NUMBER (Include Area Code) (856)-339-1923															
			13. CON	IPLETE ON				ONENT FA	AILURE	DESCRIB	ED IN TH	IIS R			
CAUSE SYSTEM		COMPO		ANU- TURER	REPORTABLE TO EPIX		CAL	ISE	SYSTEM	EM COMPONENT		MANU- FACTURE		REPORTABLE TO EPIX	
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14. SUPPLEMENTAL REPORT EXPECTED  ☐YES (If yes, complete 15. EXPECTED SUBMISSION DATE)							· 🛚	NO	15. EXPECTED MO SUBMISSION DATE			<u>MONTH</u>	DAY	<u>YEAR</u>	
ABSTR	ACT (Li	mit to 14	00 space:	s, i.e., appro	ximatel <u></u>	y 15 single	-spaced ty	pewritten	lines)						
On October 15, October 20, and October 23, 2013, with Hope Creek Generating Station (HCGS) in a planned refueling outage and the reactor cavity flooded up in OPCON 5, HCGS performed operations with a potential to drain the reactor vessel (OPDRV) without an operable secondary containment. These operations are prohibited by Technical Specification (TS) 3.6.4.1; however, recent NRC guidance provided in Enforcement Guidance Memorandum (EGM) 11-003, Revision 1, allowed the implementation of interim actions as an alternative to full compliance. These actions were compiled in a plant procedure for the OPDRV activities performed at HCGS during Refueling Outage (H1R18) in October 2013.															
These OPDRV activities were planned activities that were completed under the guidance of plant procedures and confirmed to have low safety significance based on the interim actions taken. Since these actions were deliberate, no cause determination was necessary. Consistent with the guidance provided in EGM 11-003, Revision 1, HCGS will submit a license amendment request to adopt a Technical Specifications Task Force (TSTF) traveler associated with generic resolution of this issue within four months after the issuance of the Notice of Availability of															

NRC FORM 366 (10-2010) PRINTED ON RECYCLED PAPER

These conditions are being reported in accordance with 10 CFR 50.73(a)(2)(i)(B) as a condition prohibited by TS.

the TSTF traveler.

NRC FORM 366A (10-2010)

# LICENSEE EVENT REPORT (LER) U.S. NUCLEAR REGULATORY COMMISSION CONTINUATION SHEET

1. FACILITY NAME	2. DOCKET		6. LER NUMBE	3. PAGE	
Hope Creek Generating Station	05000354	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	2 OF 3
Hope Greek Generating Station		2013	- 004 -	00	20(3

#### **NARRATIVE**

#### PLANT AND SYSTEM IDENTIFICATION

General Electric – Boiling Water Reactor (BWR/4)\*
Reactor Pressure Vessel (AC) – EIIS Identifier {AC/RPV}
Secondary Containment (NG) – EIIS Identifier {NG}

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

#### **IDENTIFICATION OF EVENT**

Event Dates: October 15, October 20, and October 23, 2013 Discovery Dates: October 15, October 20, and October 23, 2013

#### **CONDITIONS PRIOR TO EVENT**

Hope Creek was shutdown for Refueling Outage H1R18 in Operational Condition (OPCON) 5 - Refueling Operations.

#### **DESCRIPTION OF EVENT**

On October 15, October 20, and October 23, 2013, with Hope Creek Generating Station (HCGS) in a planned refueling outage and the reactor cavity flooded up in OPCON 5, HCGS performed operations with a potential to drain the reactor vessel (OPDRV) without an operable secondary containment {NG}. These operations are prohibited by Technical Specification (TS) 3.6.4.1, "Secondary Containment." The NRC recognized that such activities may need to be performed during refueling outages while activities were underway with the Boiling Water Reactor Owners Group (BWROG) to formulate acceptable generic changes to the BWR Technical Specifications (TS). NRC guidance provided in Enforcement Guidance Memorandum (EGM) 11-003, Revision 1, "Enforcement Guidance Memorandum on Dispositioning Boiling Water Reactor Licensee Noncompliance with Technical Specification Containment Requirements During Operations With a Potential for Draining the Reactor Vessel," dated December 20, 2012, allowed the implementation of specific interim actions, as an alternative to full compliance with TS, while the improvements in the TS are under development with the BWROG. The required interim actions specified in the EGM were incorporated into plant procedure OP-HC-108-102, "Management of Operations with the Potential to Drain the Reactor Vessel." This procedure was then utilized on three occasions, listed in Table 1, during Refueling Outage (H1R18) in October.

Table 1 – HCGS OPDRVs Performed October 2013									
Activity/Implementation Duration	Start	End							
'A' Recirc Pump Seal Replacement									
14 days, 18 hours, 43 minutes	October 15, 2013 at 17:00 EDT	October 30, 2013 at 11:43 EDT							
CRD Mechanism and LPRM Replacement									
4 days, 7 hours, 6 minutes	October 20, 2013 at 12:00 EDT	October 24, 2013 at 19:06 EDT							
RWCU LLRT									
24 hours, 35 minutes	October 23, 2013 at 18:29 EDT	October 24, 2013 at 19:06 EDT							

These conditions are being reported in accordance with 10 CFR 50.73(a)(2)(i)(B) as a condition prohibited by TS.

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NRC FORM 366A (10-2010)

## LICENSEE EVENT REPORT (LER) U.S. NUCLEAR REGULATORY COMMISSION

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Hope Creek Generating Station	05000354	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	3 OF 3		
Hope Greek Generating Station	03000334	2013	- 004 -	00	3013		

#### **NARRATIVE**

### **CAUSE OF EVENT**

Implementation of EGM 11-003, Revision 1, interim actions during the HCGS refueling outage (H1R18) was a planned activity. As such, no cause determination was performed for the event.

#### SAFETY CONSEQUENCES AND IMPLICATIONS

The OPDRVs discussed in this report were performed during the HCGS refueling outage (H1R18) and were accomplished using the interim actions provided by the NRC in EGM 11-003, Revision 1. For these events, HCGS adhered to the NRC plain language meaning of OPDRV activities that could potentially result in draining or siphoning the RPV water level below the top of fuel. This included evolutions involving aligning and realigning plant systems prior to achieving steady-state water level control, without taking credit for mitigating measures. HCGS also met the requirements that specify the minimum makeup flow rate and water inventory based on OPDRV activities with long drain down times. Further, an adequate defense in depth was maintained to minimize the potential for the release of fission products with secondary containment not operable by (a) monitoring RPV level to identify the onset of a loss of inventory event, (b) maintaining the capability to isolate the potential leakage paths, (c) prohibiting Mode 4 (cold shutdown) OPDRV activities, and (d) prohibiting movement of irradiated fuel with the spent fuel storage pool gates removed in Mode 5. All other Mode 5 TS requirements for activities were followed. Since these compensatory measures were properly implemented, an adequate level of safety was provided during the OPDRV activities described in this report. Based on this information, the performance of these OPDRV activities were determined to have a low safety significance.

#### **PREVIOUS EVENTS**

A review of Licensee Event Reports and the corrective action program for the past three years identified the following previous similar occurrences.

 LER 2012-003-00, dated May 5, 2012, reported an OPDRV activity during the 2012 refueling outage (H1R17). Interim actions in accordance with Revision 0 of the EGM were applied. No corrective actions were stated.

#### **CORRECTIVE ACTIONS**

HCGS will submit a license amendment request to adopt a Technical Specification Task Force (TSTF) traveler associated with generic resolution of this issue, within four months after the issuance of the Notice of Availability of the TSTF traveler.

#### **COMMITMENTS**

This LER contains no regulatory commitments.