

PSEG Nuclear LLC

P.O. Box 236, Hancocks Bridge, NJ 08038-0236



10 CFR 50.73

LR-N23-0039

June 20, 2023

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-001

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

Subject: Licensee Event Report 2023-001-00, Technical Specification
Required Shutdown due to Declaring the Suppression Chamber
and Primary Containment Inoperable

In accordance with 10 CFR 50.73(a)(2)(i)(A) and 50.73(a)(2)(v)(D), PSEG Nuclear
LLC submits Licensee Event Report (LER) 2023-001-00.

There are no regulatory commitments contained in this letter.

Please contact Mr. Harry Balian at (856) 339 - 2173 if you have questions.

Sincerely,

Agster,
Thomas R.

Digitally signed by
Agster, Thomas R.
Date: 2023.06.20
20:00:41 -04'00'

Thomas R. Agster
Plant Manager, Hope Creek Generating Station

Attachment: Licensee Event Report 2023-001-00

cc: USNRC Regional Administrator – Region 1
USNRC NRR Project Manager – Hope Creek
USNRC Senior Resident Inspector – Hope Creek
NJ Department of Environmental Protection, Bureau of Nuclear Engineering

President & Chief Nuclear Officer, PSEG Nuclear
Senior Vice President, PSEG Nuclear Operations
Site Vice President, Hope Creek
Plant Manager, Hope Creek
Vice President, PSEG Nuclear Engineering
Executive Director Regulatory Affairs & Nuclear Oversight
Director Site Regulatory Compliance, Regulatory Affairs
Manager, Nuclear Oversight
Corporate Commitment Coordinator, PSEG Nuclear, LLC
Records Management (Record Type 3E.111)



LICENSEE EVENT REPORT (LER)

(See Page 2 for required number of digits/characters for each block)

(See NUREG-1022, R.3 for instruction and guidance for completing this form
<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1022/r3/>)

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, Library, and Information Collections Branch (T-6 A10M), U. S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by email to Infocollections.Resource@nrc.gov, and the OMB reviewer at: OMB Office of Information and Regulatory Affairs, (3150-0104), Attn: Desk Officer for the Nuclear Regulatory Commission, 725 17th Street NW, Washington, DC 20503; email: oir_submission@omb.eop.gov. The NRC may not conduct or sponsor, and a person is not required to respond to, a collection of information unless the document requesting or requiring the collection displays a currently valid OMB control number.

1. Facility Name Hope Creek Generating Station	<input checked="" type="checkbox"/> 050 <input type="checkbox"/> 052	2. Docket Number 354	3. Page 1 OF 3
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4. Title
 Technical Specification Required Shutdown due to Declaring the Suppression Chamber and Primary Containment Inoperable

5. Event Date			6. LER Number			7. Report Date			8. Other Facilities Involved	
Month	Day	Year	Year	Sequential Number	Revision No.	Month	Day	Year	Facility Name	Docket Number
04	30	2023	2023	001	00	06	20	2023	<input type="checkbox"/> 050 <input type="checkbox"/> 052	Docket Number Docket Number

9. Operating Mode 1	10. Power Level 100
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11. This Report is Submitted Pursuant to the Requirements of 10 CFR §: (Check all that apply)

<input type="checkbox"/> 10 CFR Part 20	<input type="checkbox"/> 20.2203(a)(2)(vi)	<input checked="" type="checkbox"/> 10 CFR Part 50	<input type="checkbox"/> 50.73(a)(2)(ii)(A)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)	<input type="checkbox"/> 73.1200(a)
<input type="checkbox"/> 20.2201(b)	<input type="checkbox"/> 20.2203(a)(3)(i)	<input type="checkbox"/> 50.36(c)(1)(i)(A)	<input type="checkbox"/> 50.73(a)(2)(ii)(B)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)	<input type="checkbox"/> 73.1200(b)
<input type="checkbox"/> 20.2201(d)	<input type="checkbox"/> 20.2203(a)(3)(ii)	<input type="checkbox"/> 50.36(c)(1)(ii)(A)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(ix)(A)	<input type="checkbox"/> 73.1200(c)
<input type="checkbox"/> 20.2203(a)(1)	<input type="checkbox"/> 20.2203(a)(4)	<input type="checkbox"/> 50.36(c)(2)	<input type="checkbox"/> 50.73(a)(2)(iv)(A)	<input type="checkbox"/> 50.73(a)(2)(x)	<input type="checkbox"/> 73.1200(d)
<input type="checkbox"/> 20.2203(a)(2)(i)	<input checked="" type="checkbox"/> 10 CFR Part 21	<input type="checkbox"/> 50.46(a)(3)(ii)	<input type="checkbox"/> 50.73(a)(2)(v)(A)	<input checked="" type="checkbox"/> 10 CFR Part 73	<input type="checkbox"/> 73.1200(e)
<input type="checkbox"/> 20.2203(a)(2)(ii)	<input type="checkbox"/> 21.2(c)	<input type="checkbox"/> 50.69(g)	<input type="checkbox"/> 50.73(a)(2)(v)(B)	<input type="checkbox"/> 73.77(a)(1)	<input type="checkbox"/> 73.1200(f)
<input type="checkbox"/> 20.2203(a)(2)(iii)		<input checked="" type="checkbox"/> 50.73(a)(2)(i)(A)	<input type="checkbox"/> 50.73(a)(2)(v)(C)	<input type="checkbox"/> 73.77(a)(2)(i)	<input type="checkbox"/> 73.1200(g)
<input type="checkbox"/> 20.2203(a)(2)(iv)		<input type="checkbox"/> 50.73(a)(2)(i)(B)	<input checked="" type="checkbox"/> 50.73(a)(2)(v)(D)	<input type="checkbox"/> 73.77(a)(2)(ii)	<input type="checkbox"/> 73.1200(h)
<input type="checkbox"/> 20.2203(a)(2)(v)		<input type="checkbox"/> 50.73(a)(2)(i)(C)	<input type="checkbox"/> 50.73(a)(2)(vii)		

OTHER (Specify here, in abstract, or NRC 366A).

12. Licensee Contact for this LER

Licensee Contact Harry Balian	Phone Number (Include area code) (856) 339 - 2173
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13. Complete One Line for each Component Failure Described in this Report

Cause	System	Component	Manufacturer	Reportable to IRIS	Cause	System	Component	Manufacturer	Reportable to IRIS
	BF	VACB	G202	Y					

14. Supplemental Report Expected

<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes (If yes, complete 15. Expected Submission Date)	15. Expected Submission Date	Month	Day	Year
			09	28	2023

16. Abstract (Limit to 1326 spaces, i.e., approximately 13 single-spaced typewritten lines)

On April 30, 2023, Hope Creek Generating Station (HCGS) completed a technical specification (TS) required shutdown because limiting condition for operation (LCO) 3.6.1.1, Primary Containment Integrity, was declared inoperable. LCO 3.6.1.1 was declared inoperable because drywell-to-torus differential pressure could not be established to perform surveillance requirement (SR) 4.6.2.1.f, and LCO 3.6.2.1, SUPPRESSION CHAMBER, could not be met. HCGS demonstrated containment Operability and returned to power operation.

HCGS will supplement this licensee event report (LER) when a root cause evaluation (RCE) is complete.



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

(See NUREG-1022, R.3 for instruction and guidance for completing this form
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1. FACILITY NAME Hope Creek Generating Station	<input checked="" type="checkbox"/> 050	2. DOCKET NUMBER 354	3. LER NUMBER		
	<input type="checkbox"/> 052		YEAR 2023	SEQUENTIAL NUMBER 001	REV NO. 00

NARRATIVE

PLANT AND SYSTEM IDENTIFICATION

General Electric – Boiling Water Reactor (BWR/4)
Containment Suppression Chamber to Drywell Vacuum Breakers {BF}*

Station documentation refers to “torus” and “suppression chamber” interchangeably.

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

IDENTIFICATION OF OCCURRENCE

Event Date: April 30, 2023
Discovery Date: April 30, 2023

Station activities that caused or contributed to this event may have occurred before April 30, 2023. Those activities will be reported in a supplement to this licensee event report (LER) when the root cause evaluation (RCE) is complete.

CONDITIONS PRIOR TO OCCURRENCE

OPCON 1, POWER OPERATION.

No other structures, systems or components that could have contributed to the event were inoperable during the event.

DESCRIPTION OF OCCURRENCE

On April 30, 2023, HCGS attempted to perform surveillance requirement (SR) 4.6.2.1.f but could not establish the initial test conditions (drywell-to-torus differential pressure). HCGS declared SUPPRESSION CHAMBER and PRIMARY CONTAINMENT INTEGRITY inoperable and completed a plant shutdown in accordance with TS. Event notification (EN) 56495 reported the technical specification required shutdown per 10 CFR 50.72(b)(2)(i) and this LER is required by 10 CFR 50.73(a)(2)(i)(A).

EN 56494 reported a seriously degraded principal safety barrier per 10 CFR 50.72(b)(3)(ii)(A) and a condition that could prevent fulfillment of a safety function per 10 CFR 50.72(b)(3)(v)(D). Subsequent engineering analysis demonstrates that principal safety barriers were not seriously degraded. Therefore, a LER is not required by 10 CFR 50.73(a)(2)(ii). The engineering analysis also demonstrates that the primary containment safety function would be fulfilled if called upon. However, this LER is required by 10 CFR 50.73(a)(2)(v)(D) because primary containment is a single train system that was declared inoperable based on the inability to establish test conditions.

The RCE may identify additional reporting requirements when complete.



**LICENSEE EVENT REPORT (LER)
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NARRATIVE

CAUSE OF EVENT

HCGS will supplement this LER when the RCE is complete.

SAFETY CONSEQUENCES AND IMPLICATIONS

There were no safety consequences because of this event. An engineering analysis determined that primary containment and the suppression chamber (torus) were capable of performing their intended safety functions. Therefore, per NEI 99-02, "Regulatory Assessment Performance Indicator Guideline," Revision 7, this will not be counted as a safety system functional failure.

PREVIOUS EVENTS

No similar LER or corrective action occurrences were found following a review of station LERs and the corrective action program for the past three years.

CORRECTIVE ACTIONS

HCGS identified bypass leakage through one torus-to-drywell vacuum breaker, completed repairs, satisfactorily performed SR 4.6.2.1.f, and returned to power operation on May 6, 2023.

HCGS will supplement this LER when the RCE is complete.

COMMITMENTS

There are no regulatory commitments in this LER.