



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

REGION I  
475 ALLENDALE RD, STE 102  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

February 6, 2025

Charles McFeaters  
President and Chief Nuclear Officer  
PSEG Nuclear, LLC - N09  
P.O. Box 236  
Hancocks Bridge, NJ 08038

SUBJECT: HOPE CREEK GENERATING STATION – FIRE PROTECTION TEAM  
INSPECTION REPORT 05000354/2025012

Dear Charles McFeaters:

On January 30, 2025, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Hope Creek Generating Station and discussed the results of this inspection with Robert McLaughlin, Nuclear Plant Manager, and other members of your staff. The results of this inspection are documented in the enclosed report.

No findings or violations of more than minor significance were identified during this inspection.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

Glenn T. Dentel, Chief  
Engineering Branch 2  
Division of Operating Reactor Safety

Docket No. 05000354  
License No. NPF-57

Enclosure:  
As stated

cc w/ encl: Distribution via ListServ

SUBJECT: HOPE CREEK GENERATING STATION – FIRE PROTECTION TEAM  
 INSPECTION REPORT 05000354/2025012 DATED FEBRUARY 6, 2025

DISTRIBUTION:

GDentel, DORS  
 JTift, DORS  
 NWarnek, DORS  
 RClagg, DORS  
 PFinney, DORS, SRI  
 JBresson, DORS, RI  
 CFragman, DORS, AA  
 AArias, RI OEDO  
 RidsNrrPMHopeCreek Resource  
 RidsNrrDorlLp1 Resource

DOCUMENT NAME: [https://usnrc.sharepoint.com/teams/EngineeringBranch2/Shared Documents/\\_Fire Protection/Fire Protection IRs/Hope Creek/HC 2025-012.docx](https://usnrc.sharepoint.com/teams/EngineeringBranch2/Shared Documents/_Fire Protection/Fire Protection IRs/Hope Creek/HC 2025-012.docx)  
 ADAMS ACCESSION NUMBER: ML25037A009

<input checked="" type="checkbox"/> SUNSI Review		<input checked="" type="checkbox"/> Non-Sensitive <input type="checkbox"/> Sensitive		<input checked="" type="checkbox"/> Publicly Available <input type="checkbox"/> Non-Publicly Available	
OFFICE	RI/DORS	RI/DORS			
NAME	JTift	GDentel			
DATE	2/6/2025	2/6/2025			

OFFICIAL RECORD COPY

**U.S. NUCLEAR REGULATORY COMMISSION  
Inspection Report**

Docket Number: 05000354

License Number: NPF-57

Report Number: 05000354/2025012

Enterprise Identifier: I-2025-012-0005

Licensee: PSEG Nuclear, LLC - N09

Facility: Hope Creek Generating Station

Location: Hancocks Bridge, NJ

Inspection Dates: January 13, 2025 to January 30, 2025

Inspectors: L. Cline, Senior Reactor Inspector  
E. Miller, Senior Reactor Inspector  
J. Tiff, Senior Reactor Inspector

Approved By: Glenn T. Dentel, Chief  
Engineering Branch 2  
Division of Operating Reactor Safety

Enclosure

## **SUMMARY**

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting a fire protection team inspection at Hope Creek Generating Station, in accordance with the Reactor Oversight Process. The Reactor Oversight Process is the NRC's program for overseeing the safe operation of commercial nuclear power reactors. Refer to <https://www.nrc.gov/reactors/operating/oversight.html> for more information.

### **List of Findings and Violations**

No findings or violations of more than minor significance were identified.

### **Additional Tracking Items**

None.

## **INSPECTION SCOPES**

Inspections were conducted using the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection unless otherwise noted. Currently approved IPs with their attached revision histories are located on the public website at <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter (IMC) 2515, "Light-Water Reactor Inspection Program - Operations Phase." The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards.

## **REACTOR SAFETY**

### 71111.21N.05 - Fire Protection Team Inspection (FPTI)

#### Structures, Systems, and Components (SSCs) Credited for Fire Prevention, Detection, Suppression, or Post-Fire Safe Shutdown Review (IP Section 03.01) (4 Samples)

The inspectors verified that components and/or systems will function as required to support the credited functions stated for each sample. Additional inspection considerations are located in the fire hazards analysis or safe shutdown analysis (SSA).

- (1) Fire Detection System
- (2) Fire Barrier System
- (3) Reactor Core Isolation Cooling System
- (4) Emergency Diesel Generator 'A'

### Fire Protection Program Administrative Controls (IP Section 03.02) (2 Samples)

The inspectors verified that the selected control or process is implemented in accordance with the licensee's current licensing basis. If applicable, ensure that the licensee's Fire Protection Program (FPP) contains adequate procedures to implement the selected administrative control. Verify that the selected administrative control meets the requirements of all committed industry standards.

- (1) Control of Transient Combustibles
- (2) Fire Brigade Training, Drills, and Qualification

### Fire Protection Program Changes/Modifications (IP Section 03.03) (1 Sample)

The inspectors verified the following:

- a. Changes to the approved FPP do not constitute an adverse effect on the ability to safely shutdown.
- b. The adequacy of the design modification, if applicable.
- c. Assumptions and performance capability stated in the SSA have not been degraded through changes or modifications.
- d. The FPP documents, such as the Updated Final Safety Analysis Report, fire protection report, fire hazards analysis, and SSA were updated consistent with the FPP or design change.

e. Post-fire safe shutdown operating procedures, such as abnormal operating procedures, affected by the modification were updated.

(1) Time Critical Actions Revalidation

## **INSPECTION RESULTS**

No findings were identified.

## **EXIT MEETINGS AND DEBRIEFS**

The inspectors verified no proprietary information was retained or documented in this report.

- On January 30, 2025, the inspectors presented the fire protection team inspection results to Robert McLaughlin, Nuclear Plant Manager, and other members of the licensee staff.

**DOCUMENTS REVIEWED**

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.21N.05	Corrective Action Documents	20880344 20898243 20899016 20941160 20981379 20946992 20967574 20971380 20972669 20980170 20898424		
	Corrective Action Documents Resulting from Inspection	20983334 20985279 20985414 20985602 20985610 20985611 20985613 20985616 20985639 20985927 20986162 20986168 20986183 20986184 20986528 20986531 20986541 20986591		
	Drawings	E-1521-1 Sheet 2	Raceway Plan Reactor Building Area 14 Plan Elevation 54'-0"	Revision 24
		E-1522-1 Sheet 1	Raceway Plan Reactor Building Area 14 Plan Elevation	Revision 26

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
			77'-0"	
		E-1523-1 Sheet 1	Raceway Plan Reactor Building Area 14 Plan Elevation 102'-0"	Revision 30
		E-1531-1 Sheet 2	Raceway Plan Reactor Building Area 13 Plan Elevation 54'-0"	Revision 28
		E-1631-1 Sheet 2	Raceway Plan Reactor Building Area 22 Plan Elevation 54'-0"	Revision 25
		E-1683-1	Raceway Plan Aux. Building D/G Area 28 plan at Elevation 102'	Revision 34
		E-1685-1	Raceway Plan Aux Building D/G Area 28 plan at Elevation 130'	Revision 29
	Engineering Evaluations	HC.ER-PS.FP-0001-A5	Combustible Loading Calculation Methodology and Fire Hazard Analysis for Turbine and Radwaste Building	Revision 0
		VTD 430049 Volume 002	EPU TR T0611 - Appendix R/Fire Protection	11/16/2005
	Miscellaneous	AC1G0601P AP1G0636B	Cable Pull Cards 'A' Emergency Diesel Generator	01/16/2025
		AC1G0601P AP1G0636B	Cable Reports for 'A' Emergency Diesel Generator	01/16/2025
		BL1Q0310A BL1Q0310E BP1Q0310B BP1Q0310C BP1Q0310D	Cable Pull Cards RCIC Feedwater Isolation Valve F013	01/13/2025
		BL1Q0310A BL1Q0310E BP1Q0310B BP1Q0310C BP1Q0310D	Cable Reports RCIC Feedwater Isolation Valve F013	01/13/2025
		HC.ER-PS.FP-0001-A3	Hope Creek Fire Protection Report - Safe Shutdown Analysis	Revision 0
		NOSA-HPC-23-11	Limited Scope Fire Protection Audit Report	05/31/2023
		NUREG-1852	Demonstrating the Feasibility and Reliability of Operator	October



Inspection Procedure	Type	Designation	Description or Title	Revision or Date
			Manual Actions in Response to Fire	2007
		Order 80131728-0070	Operations Time Validation Sheet - TCA-3 and TCA-4	11/27/2025
		Order 80131728-0090	Operations Response Time Validation Sheet - TCA-6	10/18/2024
		Order 80131728-0130	Operations Response Time Validation Sheet - TCA-12	01/27/2025
		Updated Final Safety Analysis Report		Revision 26
	Procedures	FP-AA-005	Fire Protection Surveillance and Periodic Test Program	Revision 8
		FP-AA-011	Control of Transient Combustible Material	Revision 9
		FP-AA-014	Fire Protection Training Program	Revision 7
		HC.FP-ST-QK-0029(F)	Class 1 Fire Detection Functional Test	Revision 19
		HC.FP-SV.ZZ-0026(F)	Flood and Fire Barrier Penetration Seal Inspection	Revision 9
		HC.FP-SV.ZZ-0056(F)	Fire Barrier Inspection	Revision 8
		HC.FP-SV.ZZ-0078(F)	Drywall Fire Barrier Inspection	Revision 6
		OP-AA-102-106	Operator Response Time Program	Revision 2
		OP-HC-102-106	Hope Creek Master List of Timed Actions	Revision 7
		OP-HC-102-106-F1	Master List of Timed Actions	Revision 2
		OP-HC-108-101	Key Control - Hope Creek	Revision 3
		SY-AA-101-120	Control of Security Locks, Keys, Cores and Combination Locks	Revision 15
		Work Orders	50251906	
	50229301			