



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION I
2100 RENAISSANCE BLVD.
KING OF PRUSSIA, PA 19406-2713

March 1, 2017

Mr. Peter Sena
President and Chief Nuclear Officer
PSEG Nuclear LLC – N09
P.O. Box 236
Hancocks Bridge, NJ 08038

SUBJECT: ANNUAL ASSESSMENT LETTER FOR HOPE CREEK GENERATING
STATION (REPORT 05000354/2016006)

Dear Mr. Sena:

The U.S. Nuclear Regulatory Commission (NRC) has completed its end-of-cycle performance assessment of Hope Creek Generating Station Unit 1 (Hope Creek), reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2016, through December 31, 2016. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. The NRC concluded that overall performance at your facility preserved public health and safety.

The NRC determined the performance at Hope Creek during the most recent quarter was within the Regulatory Response Column (Column 2) of the NRC's Reactor Oversight Process (ROP) Action Matrix in Inspection Manual Chapter 0305, "Operating Assessment Program." This conclusion was based on a single inspection finding related to maintenance of the high-pressure coolant injection system having low-to-moderate safety significance (i.e., White) in the Mitigating Systems Cornerstone, and all PIs within the expected range (i.e., Green). As stated in our final significance determination and follow-up assessment letter (Report 05000354/2016008; ML17033B541¹) dated February 06, 2017, the NRC has assessed Hope Creek to be in the Regulatory Response column, retroactive to the third calendar quarter of 2016 when this performance issue was identified. Therefore, in addition to ROP baseline inspections, the NRC plans to conduct a supplemental inspection in accordance with Inspection Procedure (IP) 95001, "Supplemental Inspection Response to Action Matrix Column 2 Inputs," after you notify the NRC of your readiness for this inspection. This inspection is conducted to provide assurance that the root causes and contributing causes of any performance issues are understood, the extent of condition is identified, and the corrective actions are sufficient to prevent recurrence.

The enclosed inspection plan lists the inspections scheduled through December 31, 2018. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last twelve months of the

¹ The designation in parentheses refers to an Agencywide Documents Access and Management System (ADAMS) Accession Number. Documents referenced in this letter are publicly available using the Accession Number in ADAMS.

inspection plan are tentative and may be revised. In addition to baseline inspections, the NRC will perform IP 60855.1, "Operation of an Independent Spent Fuel Storage Installation at Operating Plants," and Temporary Instruction 2515/192, "Inspection of the Licensee's Interim Compensatory Measures Associated with the Open Phase Condition Design Vulnerabilities in Electric Power Systems." The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence.

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact Fred Bower at (610) 337-5200 with any questions you have regarding this letter.

Sincerely,

/RA/

Michael L. Scott, Director
Division of Reactor Projects

Docket No.: 50-354
License No.: NPF-57

Enclosure:
Hope Creek Inspection/Activity Plan

cc w/encl: Distribution via ListServ

P. Sena

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SUBJECT: ANNUAL ASSESSMENT LETTER FOR HOPE CREEK (REPORT
05000354/2016006) dated March 1, 2017

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OFFICE	RI/DRP	RI/DRP	RI/DRP		
NAME	RBarkley	FBower	MScott		
DATE	2/22/17	2/27/17	2/27/17/17		

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Hope Creek
Inspection / Activity Plan
01/01/2017 - 12/31/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End				
71152B - PI&R BIENNIAL					4
1	01/30/2017	02/03/2017	IP 71152B	Problem Identification and Resolution	
1	02/13/2017	02/17/2017	IP 71152B	Problem Identification and Resolution	
ISFSI - ISFSI LOADING CAMPAIGN INSPECTION					1
1	03/06/2017	03/10/2017	IP 60855	Operation Of An ISFSI	
1	03/06/2017	03/10/2017	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
71124 - RAD PROTECTION					1
1	02/27/2017	03/03/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	02/27/2017	03/03/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1	02/27/2017	03/03/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	02/27/2017	03/03/2017	IP 71124.05	Radiation Monitoring Instrumentation	
50.59 - EVALS OF CHANGES, TESTS, & EXPERIMENTS					3
1	03/27/2017	03/31/2017	IP 7111117T-5059scrn	screenings and/or applicability determinations	
EP - EP PROGRAM INSPECTION					1
1	06/05/2017	06/09/2017	IP 7111402	Alert and Notification System Testing	
1	06/05/2017	06/09/2017	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	06/05/2017	06/09/2017	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	06/05/2017	06/09/2017	IP 71151	Performance Indicator Verification	
7111121N - EQ PROGRAM					3
1	05/08/2017	05/12/2017	IP 7111121N	Component Design Bases Inspection (Programs)	
1	05/22/2017	05/26/2017	IP 7111121N	Component Design Bases Inspection (Programs)	
71124.06 - RETS					1
1	06/12/2017	06/16/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
7111107T - TRIENNIAL HEAT SINK					1
1	06/19/2017	06/23/2017	IP 7111107T	Heat Sink Performance	
2/12EXAM - HOPE CREEK INITIAL EXAM					4
1	01/08/2018	01/12/2018	U01958	FY18 HOPE CREEK EXAM (FEBRUARY 2018)	
1	02/12/2018	02/23/2018	U01958	FY18 HOPE CREEK EXAM (FEBRUARY 2018)	
71124 - RAD PROTECTION					1
1	07/31/2017	08/04/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	07/31/2017	08/04/2017	IP 71124.02	Occupational ALARA Planning and Controls	
71124 - RAD PROTECTION					1
1	09/18/2017	09/22/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	09/18/2017	09/22/2017	IP 71124.02	Occupational ALARA Planning and Controls	

This report does not include INPO and OUTAGE activities.
This report shows only on-site and announced inspection procedures.

Hope Creek
Inspection / Activity Plan
01/01/2017 - 12/31/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End				
71124 - RAD PROTECTION					
1	09/18/2017	09/22/2017	IP 71151-OR01	Occupational Exposure Control Effectiveness	1
1	09/18/2017	09/22/2017	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
71124.08 - RADWASTE					
1	10/16/2017	10/20/2017	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	1
71124 - BASELINE HP					
1	01/22/2018	01/26/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	1
1	01/22/2018	01/26/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1	01/22/2018	01/26/2018	IP 71124.04	Occupational Dose Assessment	
U1 ISI - UNIT 1 INSERVICE INSPECTION					
1	04/23/2018	04/27/2018	IP 7111108G	Inservice Inspection Activities - BWR	2
71124 - BASELINE HP					
1	04/30/2018	05/04/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	1
1	04/30/2018	05/04/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1	04/30/2018	05/04/2018	IP 71124.04	Occupational Dose Assessment	
71124.07 - REMP					
1	06/25/2018	06/29/2018	IP 71124.07	Radiological Environmental Monitoring Program	1
7111121M - DESIGN BASES ASSURANCE INSPECTION (TEAM)					
1	07/16/2018	07/20/2018	IP 7111121M	Component Design Bases Inspection (Teams)	6
1	07/30/2018	08/03/2018	IP 7111121M	Component Design Bases Inspection (Teams)	
REQUAL - HC REQUAL INSP WITH P/F RESULTS					
1	10/08/2018	10/12/2018	IP 7111111A	Licensed Operator Requalification Program - Annual Review	2
1	10/08/2018	10/12/2018	IP 7111111B	Licensed Operator Requalification Program	
71124 - BASELINE HP					
1	11/26/2018	11/30/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	1
1	11/26/2018	11/30/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1	11/26/2018	11/30/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	11/26/2018	11/30/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	11/26/2018	11/30/2018	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	

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