



**UNITED STATES**  
**NUCLEAR REGULATORY COMMISSION**  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

September 1, 2009

Mr. Thomas P. Joyce  
President and Chief Nuclear Officer  
PSEG Nuclear LLC - N09  
P.O. Box 236  
Hancock's Bridge, NJ 08038-

**SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN –  
HOPE CREEK GENERATING STATION**

Dear Mr. Joyce:

On August 13, 2009, the NRC staff completed its performance review of Hope Creek Generating Station (Hope Creek). Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from July 1, 2008, through June 30, 2009. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility.

This performance review and enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only-Security Information" will include the security cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter at Hope Creek was within the Licensee Response column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility.

The staff identified that there were five inspection findings for the current assessment period in the area of human performance with a documented cross-cutting aspect of procedural compliance (H.4(b))<sup>1</sup>. The theme was identified in May 2009. However, the staff determined that a substantive cross-cutting issue did not exist because you identified the problem with procedural compliance, recognized that this problem affected multiple areas, performed a common cause evaluation, and initiated appropriate corrective actions. The effectiveness of the corrective actions has not yet been determined because a reasonable duration of time has not passed since identification of the new procedural compliance theme. We will continue to monitor the effectiveness of the corrective actions in this area through the baseline inspection program.

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<sup>1</sup> This is a descriptor that correlates to this cross-cutting aspect in Inspection Manual Chapter 0305, "Operating Reactor Assessment Program."

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through December 31, 2010. In addition to the baseline inspections, we plan to conduct an inspection of your independent spent fuel storage installation. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last nine months of the inspection plan are tentative and may be revised at the end-of-cycle review.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made 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).

As you may know, the NRC is currently evaluating the scope and frequency of all the baseline inspection procedures as part of our biennial review of the reactor oversight process. If the results of the evaluation, or any other circumstances, cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at 610-337-5069 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Arthur L. Burritt, Chief  
Division of Reactor Projects  
Projects Branch 3

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

Enclosure: Hope Creek Generating Station Inspection/ Activity Plan

cc w/encl:

W. Levis, President and Chief Operating Officer, PSEG Power  
J. Perry, Site Vice President  
P. Davison, Director, Nuclear Oversight  
E. Johnson, Director of Finance  
L. Wagner, Plant Manager, Hope Creek  
J. Keenan, Manager Licensing, PSEG  
Consumer Advocate, Office of Consumer Advocate, Commonwealth of PA  
D. Sowers, Director of Public Safety  
P. Baldauf, Assistant Director, NJ Radiation Protection Programs  
P. Mulligan, Chief, NJ Bureau of Nuclear Engineering  
H. Otto, Ph.D., Administrator, DE Division of Water Resources  
N. Cohen, Coordinator Unplug Salem Campaign  
E. Zobian, Coordinator - Jersey Shore Anti Nuclear Alliance  
A. Muller, Executive Director, Green Delaware  
V. Zabielski, General Solicitor, PSEG

**Hope Creek**  
**Inspection / Activity Plan**  
**07/01/2009 - 12/31/2010**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>7111121 - CDBI</b>		<b>6</b>
1	09/14/2009	09/18/2009	IP 7111121	Component Design Bases Inspection	
1	09/28/2009	10/02/2009	IP 7111121	Component Design Bases Inspection	
1	10/05/2009	10/09/2009	IP 7111121	Component Design Bases Inspection	
			<b>71121 - OCC RAD SAFETY</b>		<b>1</b>
1	07/27/2009	07/31/2009	IP 7112101	Access Control to Radiologically Significant Areas	
1	07/27/2009	07/31/2009	IP 7112102	ALARA Planning and Controls	
1	07/27/2009	07/31/2009	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
			<b>7112203 - PUB RAD SAFETY - REMP</b>		<b>1</b>
1	09/14/2009	09/18/2009	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program	
			<b>71121 - OCC RAD SAFETY</b>		<b>1</b>
1	09/28/2009	10/02/2009	IP 60855	Operation Of An ISFSI	
1	09/28/2009	10/02/2009	IP 7112101	Access Control to Radiologically Significant Areas	
1	09/28/2009	10/02/2009	IP 7112102	ALARA Planning and Controls	
1	09/28/2009	10/02/2009	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
1	09/28/2009	10/02/2009	IP 71151	Performance Indicator Verification	
			<b>7112202 - PUB RAD SAFETY - RADWASTE</b>		<b>1</b>
1	12/07/2009	12/18/2009	IP 7112202	Radioactive Material Processing and Transportation	
			<b>7112201 - PUB RAD SAFETY - RETS</b>		<b>1</b>
1	01/25/2010	01/29/2010	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems	
			<b>71121 - OCC RAD SAFETY</b>		<b>1</b>
1	03/01/2010	03/05/2010	IP 7112101	Access Control to Radiologically Significant Areas	
1	03/01/2010	03/05/2010	IP 7112102-7112102R	ALARA - Required	
1	03/01/2010	03/05/2010	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
			<b>TRI FIRE - TRIENNIAL FIRE PROTECTION INSPECTION</b>		<b>3</b>
1	03/22/2010	03/26/2010	IP 7111105T	Fire Protection [Triennial]	
1	04/05/2010	04/09/2010	IP 7111105T	Fire Protection [Triennial]	
			<b>8/23EXAM - INITIAL OPERATOR LICENSING EXAM</b>		<b>5</b>
1	07/26/2010	07/30/2010	U01788	FY10 - HOPE CREEK OPERATOR LICENSING EXAM	
1	08/23/2010	08/31/2010	U01788	FY10 - HOPE CREEK OPERATOR LICENSING EXAM	
			<b>EP EX - EP EXERCISE EVALUATION</b>		<b>4</b>
1	05/17/2010	05/21/2010	IP 7111401	Exercise Evaluation	
1	05/17/2010	05/21/2010	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	05/17/2010	05/21/2010	IP 71151-EP01	Drill/Exercise Performance	
1	05/17/2010	05/21/2010	IP 71151-EP02	ERO Drill Participation	

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

**Hope Creek**  
**Inspection / Activity Plan**  
**07/01/2009 - 12/31/2010**

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	Start	End			
			<b>EP EX - EP EXERCISE EVALUATION</b>		<b>4</b>
1	05/17/2010	05/21/2010	IP 71151-EP03	Alert & Notification System	
			<b>7111111 - REQUAL INSP WITH P/F RESULTS</b>		<b>3</b>
1	09/20/2010	09/24/2010	IP 7111111B	Licensed Operator Requalification Program	
			<b>TI-177 - MANAGING GAS ACCUMULATION IN ECCS</b>		<b>3</b>
1	08/30/2010	09/03/2010	IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	
			<b>71121 - OCC RAD SAFETY</b>		<b>1</b>
1	09/13/2010	09/17/2010	IP 7112101	Access Control to Radiologically Significant Areas	
1	09/13/2010	09/17/2010	IP 7112102-7112102R	ALARA - Required	
1	09/13/2010	09/17/2010	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
1	09/13/2010	09/17/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	09/13/2010	09/17/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	
			<b>71121 - OCC RAD SAFETY</b>		<b>1</b>
1	10/18/2010	10/22/2010	IP 7112101	Access Control to Radiologically Significant Areas	
1	10/18/2010	10/22/2010	IP 7112102-7112102R	ALARA - Required	
1	10/18/2010	10/22/2010	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
			<b>7111108G - INSERVICE INSPECTION</b>		<b>1</b>
1	10/25/2010	10/29/2010	IP 7111108G	Inservice Inspection Activities - BWR	

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