



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

June 20, 2012

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

**SUBJECT: SALEM AND HOPE CREEK GENERATING STATIONS – NRC EVALUATED  
EMERGENCY PREPAREDNESS EXERCISE – INSPECTION REPORT NOS.  
05000272/2012503, 05000311/2012503 AND 05000354/2012503**

Dear Mr. Joyce:

On May 25, 2012, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection of the May 22, 2012, evaluated emergency preparedness exercise, at your Salem and Hope Creek Generating Stations. The enclosed inspection report documents the inspection results, which were discussed on May 25, 2012, with Mr. J. Perry, Hope Creek Site Vice President, and other members of your staff.

The inspection examined activities conducted under your license as they relate to safety and compliance with the Commission's rules and regulations and with the conditions of your license. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel.

Based on the results of this inspection, no findings were identified.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure and your response (if any) will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of the NRC's document system, Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

James M. Trapp, Chief  
Plant Support Branch 1  
Division of Reactor Safety

Docket Nos. 50-272, 50-311, 50-354  
License Nos. DPR-70, DRP-75, NPF-57

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Sincerely,

*/RA/*

James M. Trapp, Chief  
 Plant Support Branch 1  
 Division of Reactor Safety

Docket Nos. 50-272, 50-311, 50-354  
 License Nos. DPR-70, DRP-75, NPF-57

DOCUMENT NAME: G:\DRS\Plant Support Branch 1\Barr\EP Ex12 SHC\Salem Hope Creek EP EX 2012 Report.docx  
 ADAMS ACCESSION NUMBER: ML12173A327

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OFFICE	RI/DRS	RI/DRP	RI/DRS		
NAME	SBarr	ABurritt	JTrapp		
DATE	6/14/12	6/19/12	6/20/12		

OFFICIAL RECORD COPY

M. Pacilio

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Enclosure:

NRC Inspection Report No. 05000272/2012503, 05000311/2012503, and 05000354/2012503

cc w/encl:

R. Thompson, RAC, FEMA Region II

D. Hammons, RAC, FEMA Region III

cc w/encl: Distribution via ListServ

Distribution w/encl: (via E-mail)

W. Dean, RA (R1ORAMAIL Resource)  
D. Lew, DRA (R1ORAMAIL Resource)  
D. Roberts, DRP (R1DRPMAIL Resource)  
J. Clifford, DRP (R1DRPMAIL Resource)  
C. Miller, DRS (R1DRSMAIL Resource)  
P. Wilson, DRS (R1DRSMAIL Resource)  
A. Burritt, DRP  
L. Cline, DRP  
A. Turilin, DRP  
R. Montgomery, DRP  
D. Schroeder, DRP, SRI  
P. McKenna, DRP, RI  
F. Bower, DRP, SRI  
A. Patel, DRP, RI  
K. McKenzie, DRP, AA  
M. McCoppin, RI OEDO  
RidsNrrPMSalem Resource  
RidsNrrDorlLpl1-2 Resource  
ROPreports Resource  
D. Bearde, DRS  
S. Barr, DRS  
J. Trapp, DRS  
R. Kahler, NSIR/EPD  
S. LaVie, NSIR/EPD

**U.S. NUCLEAR REGULATORY COMMISSION**

**REGION I**

Docket No: 50-272, 50-311, 50-354

License No: DPR-70, DPR-75, NPF-57

Report No: 05000272/2012503, 05000311/2012503, 05000354/2012503

Licensee: PSEG Nuclear LLC (PSEG)

Facility: Salem and Hope Creek Generating Stations

Location: P.O. Box 236  
Hancocks Bridge, NJ 08038

Dates: May 21 – May 25, 2012

Inspectors: S. Barr, Sr. Emergency Preparedness Inspector, DRS, Region I (Lead)  
C. Crisden, Emergency Preparedness Inspector, DRS, Region I  
D. Silk, Senior Operations Inspector, DRS, Region I  
P. McKenna, Resident Inspector, DRP, Region I  
S. Galbraith, Reactor Engineer, DRP, Region I (Training)  
A. Bolger, Reactor Engineer, DRP, Region I (Training)

Approved By: James M. Trapp, Chief  
Plant Support Branch 1  
Division of Reactor Safety

Enclosure

## SUMMARY OF FINDINGS

IR 05000272/2012503, 05000311/2012503, 05000354/2012503; 5/21/2012 - 5/25/2012; Salem and Hope Creek Generating Stations; Exercise Evaluation; Emergency Preparedness Performance Indicators.

This was an announced inspection conducted by three region-based inspectors and one resident inspector. No findings of significance were identified. The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process," Revision 4, dated December 2006.

### **Cornerstone: Emergency Preparedness**

A. NRC-Identified and Self-Revealing Findings

No findings were identified.

B. Licensee-Identified Findings

None.

## REPORT DETAILS

### 1. REACTOR SAFETY

Cornerstone: Emergency Preparedness (EP)

#### 1EP1 Exercise Evaluation (71114.01 – 1 Sample)

##### a. Inspection Scope

Prior to the May 22, 2012, emergency preparedness exercise, the NRC inspectors conducted an in-office review of the exercise objectives and scenario, which PSEG had submitted to the NRC, to determine if the exercise would test major elements of the Artificial Island Emergency Plan as required by 10 CFR 50.47(b)(14). This overall exercise inspection activity represented the completion of one sample on a biennial cycle.

The exercise evaluation consisted of the following review and assessment:

- The adequacy of PSEG's performance in the biennial full-participation exercise regarding the implementation of the risk-significant planning standards (RSPS) described in 10 CFR 50.47(b)(4), (5), (9), and (10), which are: emergency classification; offsite notification; radiological assessment; and protective action recommendations, respectively.
- The overall adequacy of PSEG's Salem and Hope Creek emergency response facilities with regard to NUREG-0696, "Functional Criteria for Emergency Response Facilities," and Emergency Plan commitments. The facilities assessed were the Hope Creek Control Room Simulator, Hope Creek Technical Support Center (TSC), and Emergency Operations Facility (EOF).
- A review of other performance areas, such as: the licensee emergency response organization's (ERO's) recognition of abnormal plant conditions; command and control; intra- and inter-facility communications; prioritization of mitigating activities; utilization of repair and field monitoring teams; interface with offsite agencies; staffing and procedure adequacy; and the overall implementation of the emergency plan and its implementing procedures.
- A review of past performance issues from the last NRC Salem and Hope Creek exercise inspection report and PSEG's EP drill reports, to determine the effectiveness of licensee corrective actions as demonstrated during the May 22, 2012, exercise and to ensure compliance with 10 CFR 50.47(b)(14).
- The licensee's post-exercise critiques, to evaluate PSEG's self-assessment of its ERO performance during the May 22, 2012, exercise and to ensure compliance with 10 CFR 50, Appendix E, Section IV.F.2.g.

Enclosure

The inspectors reviewed the documents listed in the attachment to this report.

b. Findings

No findings were identified.

4. **OTHER ACTIVITIES (OA)**

4OA1 Performance Indicator (PI) Verification (71151 – 3 Samples)

a. Inspection Scope

The inspectors reviewed data for the Salem and Hope Creek EP PIs, which are: (1) Drill and Exercise Performance (DEP); (2) Emergency Response Organization (ERO) Drill Participation; and, (3) Alert and Notification System (ANS) Reliability. The last NRC EP inspection at Artificial Island was conducted in the first calendar quarter of 2011, so the inspectors reviewed supporting documentation from EP drills, training records, and equipment tests from the first calendar quarter of 2011 through the first quarter of 2012, to verify the accuracy of the reported PI data. The review of these PIs was conducted in accordance with NRC Inspection Procedure 71151, using the acceptance criteria documented in NEI 99-02, "Regulatory Assessment Performance Indicator Guidelines," Revision 6.

This inspection activity represented the completion of three samples.

b. Findings

No findings were identified.

4OA6 Meetings, including Exit

On May 25, 2012, the inspectors presented the results of this inspection to Mr. J. Perry, Hope Creek Site Vice President, and other members of the PSEG staff. No proprietary information was provided to the inspectors during this inspection.



**ATTACHMENT**

**SUPPLEMENTAL INFORMATION**

**KEY POINTS OF CONTACT**

**Licensee Personnel**

J. Perry, Hope Creek Site Vice President  
A. Gaerity, Emergency Services Director  
D. Burgin, Emergency Preparedness Manager  
C. Banner, Emergency Preparedness Technical Specialist  
P. Duca, Senior Compliance Engineer

**LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED**

None.

**LIST OF DOCUMENTS REVIEWED**

**Section 1EP1: Exercise Evaluation**

PSEG Nuclear LLC Emergency Plan (Revision 69)  
Salem and Hope Creek Generating Station Emergency Plan Implementing Procedures  
Hope Creek May 22, 2012, Emergency Exercise Scenario Package  
Salem and Hope Creek Emergency (As documented in Emergency Preparedness Graded Exercise  
Critique Report H12-02, dated June 11, 2012)

**Section 40A1: Performance Indicator Verification**

EP-AA-125-1001, EP Performance Indicator Guidance (Revision 0)  
ERO Drill Participation PI data, January 2011 – March 2012  
Alert Notification System PI data, January 2011 – March 2012  
DEP PI data, January 2011 – March 2012

**LIST OF ACRONYMS**

ADAMS	Agencywide Documents Access and Management System
ANS	Alert Notification System
CR	Condition Report
DEP	Drill and Exercise Performance
EAL	Emergency Action Level
EOF	Emergency Operations Facility
EP	Emergency Preparedness
ERO	Emergency Response Organization
JIC	Joint Information Center
NEI	Nuclear Energy Institute
NRC	Nuclear Regulatory Commission
PARS	Publicly Available Records
PI	Performance Indicator
PSEG	Public Service Electric and Gas
RSPS	Risk Significant Planning Standard
TSC	Technical Support Center