

April 25, 2006

Mr. William Levis  
Senior Vice President and Chief Nuclear Officer  
PSEG Nuclear, LLC - N09  
P. O. Box 236  
Hancocks Bridge, NJ 08038

SUBJECT: SALEM AND HOPE CREEK NUCLEAR GENERATING STATIONS - NRC  
EVALUATED EMERGENCY PREPAREDNESS EXERCISE INSPECTION  
REPORT 05000272/2006011, 05000311/2006011, AND 05000354/2006009

Dear Mr. Levis:

The enclosed report documents an inspection at the Salem and Hope Creek Generating Stations, which evaluated the performance of your emergency response organization during the March 21, 2006, exercise and the post-exercise critique conducted on March 23, 2006, as specified in the reactor oversight program. The inspectors discussed the findings of this inspection with Mr. T. Joyce, Salem Station Vice President, and other members of your staff on March 23, 2006.

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 emergency plan procedures, previous drill reports, observed the exercise activities, and interviewed selected emergency preparedness personnel from your staff.

Based on the results of this inspection, no findings of significance 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 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).

Sincerely,

*/RA/*

Raymond K. Lorson, Chief  
Plant Support Branch 1  
Division of Reactor Safety

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

Enclosure: Inspection Report Nos. 05000272&311/2006011and 05000354/2006009  
w/Attachment: Supplemental Information

cc w/encl:

T. Joyce, Site Vice President - Salem  
D. Winchester, Vice President Nuclear Assessments  
W. F. Sperry, Director Business Support  
D. Benyak, Director - Regulatory Assurance  
C. J. Fricker, Salem Plant Manager  
J. J. Keenan, Esquire  
M. Wetterhahn, Esquire  
F. Pompper, Chief of Police and Emergency Management Coordinator  
P. Baldauf, Assistant Director, Radiation Protection and Release Prevention, State of  
New Jersey  
K. Tosch, Chief, Bureau of Nuclear Engineering, NJ Dept. of Environmental Protection  
H. Otto, Ph.D., DNREC Division of Water Resources, State of Delaware  
Consumer Advocate, Office of Consumer Advocate  
N. Cohen, Coordinator - Unplug Salem Campaign  
W. Costanzo, Technical Advisor - Jersey Shore Nuclear Watch  
E. Zobian, Coordinator - Jersey Shore Anti Nuclear Alliance

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U. S. NUCLEAR REGULATORY COMMISSION REGION I

REGION I

Docket Nos: 50-272, 50-311, 50-354

License Nos: DPR-70, DPR-75, NPF-57

Report Nos: 05000272/2006011, 05000311/2006011, 05000354/2006009

Licensee: PSEG Nuclear, LLC

Facility: Salem Nuclear Generating Station, Unit 1 and 2  
Hope Creek Nuclear Generating Station

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

Dates: March 21 - 23, 2006

Inspectors: D. Silk, Senior Emergency Preparedness Inspector (Lead)  
N. McNamara, Emergency Preparedness Inspector  
S. Barr, Senior Operations Engineer  
M. Brown, Operations Engineer

Observer: R. Lorson, Chief, Plant Support Branch 1

Approved by: Raymond K. Lorson, Chief  
Plant Support Branch 1  
Division of Reactor Safety

Enclosure

## SUMMARY OF FINDINGS

IR 05000272/2006011, IR 05000311/2006011, IR 05000354/2006009; 03/21/2006-03/23/2006; Salem Units 1 and 2 and Hope Creek; Emergency Preparedness Exercise; Emergency Preparedness Performance Indicators.

This inspection was conducted by four region-based inspectors. No findings of significance were identified. The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-5949, "Reactor Oversight Process," Revision 3, dated August 2000.

A. NRC-Identified Findings

**Cornerstone: Emergency Preparedness**

None

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 exercise, an in-office review was conducted of the exercise objectives and scenario submitted to the NRC to determine if the exercise would test major elements of the emergency plan as required by 10 CFR 50.47(b)(14). The evaluation of the licensee's performance during the exercise is described below. Overall, this inspection activity represents 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) in 10 CFR 50.47 (b)(4), (5), (9) & (10) which are emergency classification, offsite notification, radiological assessment, and protective action recommendations, respectively.
- The overall adequacy of PSEG's emergency response facilities with regard to NUREG-0696, "Functional Criteria for Emergency Response Facilities," and Emergency Plan commitments. The facilities assessed were the control room simulator, the Technical Support Center (TSC), the Operations Support Center (OSC), and the Emergency Operations Facility (EOF).
- Other performance areas, such as, the emergency response organization's (ERO) recognition of abnormal plant conditions, command and control, intra- and inter-facility communications, prioritization of mitigation 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.
- Past performance issues from the last NRC exercise report and PSEG's drill reports to determine effectiveness of corrective actions as demonstrated during this exercise to ensure compliance with 10 CFR 50.47(b)(14).
- The post-exercise critique to evaluate PSEG's self-assessment of its ERO performance during the exercise and to ensure compliance with 10 CFR 50, Appendix E.IV.F.2.g.

The inspectors reviewed the documents listed in Attachment 1 to this report.

Enclosure

b. Findings

No findings of significance were identified.

1EP4 Emergency Action Level and Emergency Plan Changes (7111404 - 1 sample)

a. Inspection Scope

During the period of August, 2005 - March 2006, the NRC received changes made to the Salem and Hope Creek emergency plan and implementing procedures in accordance with 10 CFR 50.54(q). The licensee had determined that the changes did not decrease the effectiveness of the emergency plan and also that the emergency plan continued to meet the requirements of 10 CFR 50.47(b) and Appendix E to 10 CFR 50. The inspectors conducted a sampling review of the changes that could potentially result in a decrease in effectiveness. This review does not constitute an approval of the changes and, as such, the changes are subject to future NRC inspection. The inspection was conducted in accordance with NRC Inspection Procedure 71114, Attachment 4, and the applicable requirements in 10 CFR 50.54(q) were used as reference criteria. This inspection activity represents the completion of one sample on an annual cycle.

b. Findings

No findings of significance were identified.

**4. OTHER ACTIVITIES (OA)**

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

a. Inspection Scope

The inspectors reviewed data for the EP PIs which are: (1) Drill and Exercise Performance (DEP); (2) ERO Drill Participation; and (3) Alert and Notification System (ANS) Reliability. The inspectors reviewed supporting documentation from drills and tests in the second, third, and fourth quarters of 2005 to verify the accuracy of the reported data. The review of these performance indicators was conducted in accordance with NRC Inspection Procedure 71151. The acceptance criteria used for the review were 10 CFR 50.9 and NEI 99-02, Revision 2, "Regulatory Assessment Performance Indicator Guidelines." This inspection activity represents the completion of three samples on an annual cycle.

b. Findings

No findings of significance were identified.

#### 40A2 Identification and Resolution of Problems (71152: 1 Sample)

##### a. Inspection Scope

The inspectors reviewed PSEG's critique findings as documented in drill and exercise reports from 2004 and 2005. These reviews were conducted to evaluate performance trends and to determine the effectiveness of licensee corrective actions based upon ERO performance during this exercise. The inspectors verified that issues identified during this exercise were entered into PSEG's corrective action program and are listed in the attachment to this report. The inspection was conducted in accordance with NRC Inspection Procedure 71114, Attachment 01. The inspectors utilized 10 CFR 50.47(b)(14), and Appendix E IV.F.2.g as reference criteria.

##### b. Findings and Observations

No findings of significance were identified.

#### 40A6 Meetings, including Exit

The inspectors presented the inspection results to Mr. T. Joyce, Salem Station Vice President, and other members of the licensee's staff at the conclusion of the inspection on March 23, 2006. The licensee had no objections to the NRC observations. No proprietary information was provided to the inspectors during this inspection.



**ATTACHMENT**

**SUPPLEMENTAL INFORMATION**

**KEY POINTS OF CONTACT**

Licensee Personnel

D. Burgin, Emergency Preparedness Manager  
C. Banner, Emergency Preparedness Supervisor  
T. Joyce, Salem Station Vice President  
D. Kabachinski, Emergency Preparedness Specialist  
J. Schaffer, Emergency Preparedness Specialist  
C. Simmermon, Emergency Preparedness Technical Analyst  
R. Vondrasek, Emergency Preparedness Technical Analyst  
D. Wyckoff, Emergency Preparedness Administrative Clerk  
G. Young, Emergency Preparedness Specialist

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

Opened, Closed, Discussed

None

**LIST OF DOCUMENTS REVIEWED**

**Section 1EP1: Exercise Evaluation**

PSEG Nuclear LLC Emergency Plan  
Emergency Plan Implementing Procedures

**Section 4OA1: Performance Indicator Verification**

NC.EP-DG.ZZ-0001(Z), Maintenance of Emergency Preparedness Performance Indicator (PI)  
Data, Rev 06

**Section 4OA2: Identification and Resolution of Problems**

Exercise Critique Report H04-02, March 16, 2004  
Salem Training Drill Critique Report S04-01, June 30, 2004  
Salem Training Drill Critique Report S04-02, July 21, 2004  
Self Evaluated Exercise Critique Report, S05-01, May 18, 2005  
Training Drill Critique Report S05-02, October 4, 2005  
Training Drill Critique Report S05-03, July 20, 2005

Training Drill Critique Report S05-04, November 30, 2005

Practice Exercise Critique Report S06-01, February 15, 2006

The following tracking numbers captured issues from the March 21, 2006 Exercise:

80088909

80088910

80088911

80088912

80088913

80088914

### LIST OF ACRONYMS

ANS	Alert and Notification System
CFR	Code of Federal Regulations
DEP	Drill and Exercise Performance
ERO	Emergency Response Organization
EOF	Emergency Operations Facility
EP	Emergency Preparedness
ERO	Emergency Response Organization
NRC	Nuclear Regulatory Commission
OSC	Operations Support Center
PI	Performance Indicator
PSEG	Public Service Electric and Gas
RSPS	Risk Significant Planning Standard
TSC	Technical Support Center