

PSEG Nuclear LLC  
P.O. Box 236, Hancocks Bridge, NJ 08038-0236



Order EA-12-051

LR-N14-0186

AUG 26 2014

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

Salem Generating Station, Units 1 and 2  
Renewed Facility Operating License Nos. DPR-70 and DPR-75  
NRC Docket Nos. 50-272 and 50-311

Subject: PSEG Nuclear LLC's Third Six-Month Status Report for the Salem Generating Station in Response to March 12, 2012 Commission Order Modifying Licenses with Regard to Requirements for Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051)

References:

1. NRC Order Number EA-12-051, "Order Modifying Licenses with Regard to Requirements for Reliable Spent Fuel Pool Instrumentation," dated March 12, 2012
2. PSEG Letter LR-N13-0020, "PSEG Nuclear LLC's Overall Integrated Plan for the Salem Generating Station in Response to March 12, 2012 Commission Order Modifying Licenses with Regard to Requirements for Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051)," dated February 28, 2013
3. PSEG Letter LR-N13-0176, "PSEG Nuclear LLC's First Six-Month Status Report for the Salem Generating Station in Response to March 12, 2012 Commission Order Modifying Licenses with Regard to Requirements for Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051)," dated August 25, 2013
4. PSEG Letter LR-N14-0033, "PSEG Nuclear LLC's Second Six-Month Status Report for the Salem Generating Station in Response to March 12, 2012 Commission Order Modifying Licenses with Regard to Requirements for Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051)," dated February 25, 2014

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On March 12, 2012, the Nuclear Regulatory Commission (NRC) issued Order EA-12-051 (Reference 1) to PSEG Nuclear LLC (PSEG). Reference 1 was immediately effective and required submission of an Overall Integrated Plan (OIP) pursuant to Condition IV.C.1.a of the Order. Reference 2 provided the Salem Generating Station (SGS) Units 1 and 2 spent fuel level instrumentation OIP. Condition IV.C.2 of NRC Order EA-12-051 requires six-month status reports to delineate progress made in implementing the requirements of the Order. References 3 and 4 provided the first and second six-month status reports, respectively, for SGS. Enclosure 1 to this letter provides the third six-month status report of progress made in implementing the requirements of NRC Order EA-12-051 at SGS as of July 31, 2014. There are no changes in compliance method or issues requiring relief identified in Enclosure 1.

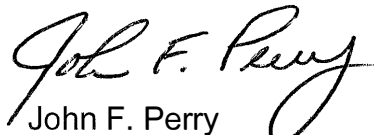
There are no regulatory commitments contained in this letter.

If you have any questions or require additional information, please do not hesitate to contact Mr. Brian Thomas at 856-339-2022.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on 8/26/2014  
(Date)

Sincerely,

  
John F. Perry  
Vice President - Salem

Enclosure 1 – Salem Generating Station Third Six-Month Status Report for the Implementation of Order EA-12-051, Order Modifying Licenses with Regard to Requirements for Reliable Spent Fuel Pool Instrumentation

cc: Director of Office of Nuclear Reactor Regulation  
Administrator, Region I, NRC  
Project Manager, NRC  
NRC Senior Resident Inspector, Salem  
Mr. P. Mulligan, Manager IV, NJBNE  
Salem Commitment Tracking Coordinator  
PSEG Corporate Commitment Coordinator

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***(The bcc list should not be submitted as part of the DCD submittal - remove this page prior to submittal and make the bcc distribution accordingly)***

bcc: President and Chief Nuclear Officer  
Senior Vice President and Chief Operating Officer  
Vice President - Salem  
Vice President, Operations Support  
Director - Nuclear Oversight  
Director - Regulatory Affairs  
Plant Manager - Salem  
Manager - Regulatory Assurance - Salem  
Senior Project Manager – Fukushima Site Improvements Project  
Manager - Licensing  
Document Control

**Salem Generating Station Third Six-Month Status Report for the Implementation  
of Order EA-12-051, Order Modifying Licenses with Regard to Requirements for  
Reliable Spent Fuel Pool Instrumentation**

**Salem Generating Station Units 1 and 2  
PSEG Nuclear LLC**

## 1. Introduction

PSEG developed an Overall Integrated Plan (OIP) (Reference 1) for Salem Generating Station (SGS) Units 1 and 2, documenting the plan to meet the requirements to install reliable spent fuel pool instrumentation (SFPI) in response to NRC Order EA-12-051 (Reference 2). In References 3 and 4, respectively, PSEG provided the first and second six-month status reports associated with implementation of the requirements of NRC Order EA-12-051. This report is the third six month status report, which provides implementation status as of July 31, 2014. This status report follows the guidance in Appendix A to Nuclear Energy Institute (NEI) Report 12-02, Revision 1 (Reference 5), which states that the six-month status reports should include any changes to the compliance method, schedule, and the need for relief and the basis for relief, if applicable. Sections 2 and 3 of this status report include milestone accomplishments and milestone schedule status, respectively. There are no changes to compliance method or requests for relief associated with this report.

## 2. Milestone Accomplishments

As of July 31, 2014, the following milestones have been completed since the development of the SGS SFPI OIP.

- Submit Integrated Plan: PSEG submitted the SGS SFPI OIP to the NRC.
- Issue SFPI Equipment Purchase Order: PSEG issued a material purchase order to the SFPI vendor.
- Begin Installation –SFPI installation activities have begun at Salem Units 1 and 2.

## 3. Milestone Schedule Status

The following table provides an update of the milestone schedule provided in Section 3 of the SGS SFPI OIP, as well as additional milestones (e.g., six-month status reports, procedures, training and a completion report) that have been included for completeness. The table provides the activity status of each item, and the expected completion date noting any changes. The dates are planning dates subject to change as design and implementation details are finalized. Activities apply to both SGS Units 1 and 2, unless indicated otherwise.

<b>Milestone</b>	<b>Target Completion Date</b>	<b>Activity Status</b>	<b>Revised Target Completion Date</b>
<b>Conceptual Design</b>	Dec 2012	Complete	
<b>Submit Overall Integrated Plan</b>	Feb 2013	Complete	
<b>Six-Month Status Updates</b>	Aug 2013	Complete	
	Feb 2014	Complete	
	Aug 2014	Complete	
	Feb 2015	Not Started	
	Aug 2015	Not Started	
<b>Issue SFPI Equipment Purchase Order</b>	2Q2013	Complete	
<b>Design Change Package</b>			
Complete Detailed Design - SGS Unit 1 (Note 1)	1Q2014	Started	3Q2014
Complete Detailed Design - SGS Unit 2 (Note 1)	1Q2015	Started	3Q2014
Begin Installation – SGS Unit 1	2Q2014	Complete	
Begin Installation – SGS Unit 2	2Q2015	Complete	
Installation Complete, SFPI Channels Fully Functional – Unit 1	4Q2014	Not Started	
Installation Complete, SFPI Channels Fully Functional – Unit 2	4Q2015	Not Started	
Implementation Outage – Unit 1	4Q2014	Not Started	
Implementation Outage – Unit 2	4Q2015	Not Started	
<b>Procedures</b>			
Issue Procedures – Unit 1	Nov 2014	Not Started	
Issue Procedures – Unit 2	Nov 2015	Not Started	
<b>Training</b>			
Complete Training – Unit 1	Nov 2014	Started	
Complete Training – Unit 2	Nov 2015	Started	
Submit Final Completion Report – Unit 1	Feb 2016	Not Started	Feb 2015
Submit Final Completion Report – Unit 2	Feb 2016	Not Started	

## Section 3 Table Notes:

- 1) The design change package for SGS Units 1 and 2 has been issued and is being revised pending finalization and PSEG approval of vendor documentation.

**4. Changes to Compliance Method**

There are no changes to the compliance method as documented in the SGS SFPI OIP.

**5. Need for Relief/Relaxation and Basis for the Relief/Relaxation**

PSEG expects to fully comply with the order implementation date and no relief or relaxation is requested at this time.

**6. Open Items from Overall Integrated Plan and Draft Safety Evaluation**

Open items from the NRC's Interim Staff Evaluation (Reference 6) are being addressed as part of the NRC audit process.

**7. Potential Draft Safety Evaluation Impacts**

There are no potential draft safety evaluation impacts at this time.

**8. References**

1. PSEG Letter LR-N13-0020, "PSEG Nuclear LLC's Overall Integrated Plan for the Salem Generating Station in Response to March 12, 2012 Commission Order Modifying Licenses with Regard to Requirements for Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051)," dated February 28, 2013
2. NRC Order Number EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation," dated March 12, 2012
3. PSEG Letter LR-N13-0176, "PSEG Nuclear LLC's First Six-Month Status Report for the Salem Generating Station in Response to March 12, 2012 Commission Order Modifying Licenses with Regard to Requirements for Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051)," dated August 25, 2013
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5. NEI 12-02, "Industry Guidance for Compliance with NRC Order EA-12-051, 'To Modify Licenses with Regard to Reliable Spent Fuel Pool Instrumentation,'" Revision 1, August 2012
6. NRC Letter to PSEG, "Salem Nuclear Generating Station, Units 1 and 2 – Interim Staff Evaluation and Request for Additional Information Regarding the Overall Integrated Plan for Implementation of Order EA-12-051, Reliable Spent Fuel Pool Instrumentation (TAC NOS. MF0913 and MF0914)," dated October 17, 2013