

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



Order EA-12-051

LR-N15-0167

AUG 26 2015

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 Fifth 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 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-N15-0025, "PSEG Nuclear LLC's Fourth 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 18, 2015
4. PSEG Letter LR-N14-0237, "Salem Generating Station Unit 1 Compliance with March 12, 2012 NRC Order to Modify Licenses with Regard to Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051) and Responses to Requests for Additional Information for Salem Units 1 and 2," dated January 15, 2015

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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 pool 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. Attachment 1 to this letter provides the fifth six-month status report, which summarizes progress made in implementing the requirements of NRC Order EA-12-051 at SGS since the previous update provided in Reference 3. There are no changes in compliance method or issues requiring relief identified in Attachment 1. PSEG achieved compliance with NRC Order EA-12-051 for SGS Unit 1 prior to startup from the fall 2014 refueling outage, as documented in Reference 4.

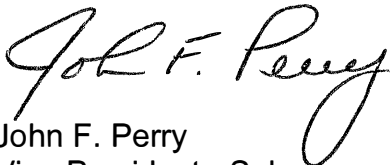
There are no regulatory commitments contained in this letter.

If you have any questions or require additional information, please do not hesitate to contact Mr. Gary Wohler at 856-339-5020.

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

Executed on August 26, 2015
(Date)

Sincerely,



John F. Perry
Vice President - Salem

Attachment 1 – Salem Generating Station Fifth 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: Mr. William Dean, Director of Office of Nuclear Reactor Regulation
Mr. Daniel Dorman, Administrator, Region I, NRC
Ms. Carleen Parker, Project Manager, NRC
Mr. Patrick Finney, NRC Senior Resident Inspector, Salem
Mr. Patrick Mulligan, Chief, NJBNE
Mr. Thomas Cachaza, Salem Commitment Tracking Coordinator
Mr. Lee Marabella, PSEG Corporate Commitment Coordinator

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Attachment 1

**Salem Generating Station Fifth 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**

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 through 6, PSEG provided six-month status reports associated with implementation of the requirements of NRC Order EA-12-051. This report is the fifth six-month status report, which provides implementation status and progress since the previous report (Reference 6). This status report follows the guidance in Appendix A to Nuclear Energy Institute (NEI) Report 12-02, Revision 1 (Reference 7), 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 the compliance method or requests for relief associated with this report.

2 Milestone Accomplishments

The following milestones have been completed since the development of the OIP (Reference 1):

- Submit Overall Integrated Plan
- Issue SFPI Equipment Purchase Order
- Design Change Package – PSEG completed the detailed SFPI design for SGS Units 1 and 2, and completed design change implementation activities for SGS Unit 1 during the fall 2014 refueling outage.
- Procedures - issued for SGS Unit 1
- Training - completed for SGS Unit 1
- Submit Final Completion Report – completed for SGS Unit 1 (Reference 8)

3 Milestone Schedule Status

The following table provides an update of the milestone schedule provided in Section 3 of the OIP (Reference 1) 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 implementation details are finalized. Activities apply to both SGS Units 1 and 2 unless indicated otherwise.

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

4 Changes to Compliance Method

There are no changes to the compliance method as documented in the OIP (Reference 1).

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

PSEG has achieved compliance with NRC Order EA-12-051 for SGS Unit 1 as documented in Reference 8, and expects to fully comply with the order implementation date for SGS Unit 2. 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 9) are addressed in Attachment 2 to Reference 8, and will be updated in the SGS Unit 2 final completion report if necessary.

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
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
5. PSEG Letter LR-N14-0186, "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)," dated August 26, 2014

6. PSEG Letter LR-N15-0025, "PSEG Nuclear LLC's Fourth 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 18, 2015
7. 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
8. PSEG Letter LR-N14-0237, "Salem Generating Station Unit 1 Compliance with March 12, 2012 NRC Order to Modify Licenses with Regard to Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051) and Responses to Requests for Additional Information for Salem Units 1 and 2," dated January 15, 2015
9. 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