



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION I
2100 RENAISSANCE BLVD., SUITE 100
KING OF PRUSSIA, PA 19406-2713

March 4, 2015

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

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR SALEM NUCLEAR GENERATING
STATION, UNIT NOS. 1 AND 2 (REPORT 05000272/2014001 AND
05000311/2014001)**

Dear Mr. Joyce:

On February 11, 2015, the U. S. Nuclear Regulatory Commission (NRC) completed its end-of-cycle performance review of Salem Nuclear Generating Station, Unit Nos. 1 and 2 (Salem). The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2014 through December 31, 2014. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

The NRC determined the performance at Salem Unit 1 during the most recent quarter was within the Regulatory Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because of a White PI for Unplanned Scrams per 7,000 hours critical. This PI changed to White in the 4th quarter of 2014 due to a manual reactor scram on October 19, 2014, preceded by three scrams in the 2nd quarter of 2014. Salem Unit 2 remains in the Licensee Response Column of the Action matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, in addition to ROP baseline inspections, the NRC plans to conduct a supplemental inspection at Unit 1 in accordance with Inspection Procedure 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area," upon notification of your readiness. The inspection will be focused on ensuring that the root causes and contributing causes of the performance issue are understood, the extent of condition and cause are identified, and the corrective actions are sufficient to prevent recurrence.

The NRC evaluates cross-cutting themes, in accordance with Inspection Manual Chapter 0310, to determine whether a substantive cross-cutting issue exists in a particular area and to encourage licensees to take appropriate actions before more significant performance issues emerge. The NRC identified a cross-cutting theme at Salem in the Human Performance area. Specifically, the NRC identified four or more findings with a documented cross-cutting aspect of H.8 – Procedure Adherence: Individuals follow processes, procedures and work instructions. The NRC determined that a substantive cross-cutting issue associated with H.8 does not exist because, currently, the NRC does not have a concern with your staff's scope of effort and progress in addressing the cross-cutting theme. Specifically, the theme was identified at the end of the assessment period and PSEG has recognized the cross-cutting theme and entered it into the corrective action program. The NRC will evaluate corrective actions once PSEG has had time to evaluate the theme and implement corrective actions.

The enclosed inspection plan lists the inspections scheduled at Salem through June 30, 2016. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the mid-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security-related inspections, which will be sent via separate, non-publicly available correspondence.

In addition to baseline inspections, the NRC will conduct Inspection Procedure (IP) 60855.1, "Operation of an Independent Spent Fuel Storage Installation at Operating Plants." Additionally, the NRC will conduct IP 71003, "Post-Approval Site Inspection For License Renewal," to verify the license conditions added as part of the renewed operating license, regulatory commitments, selected aging management programs (AMPs), and time limited aging analyses (TLAAs) are implemented and/or completed in accordance with 10 CFR Part 54.

In accordance with Title 10 of the *Code of Federal Regulations*, Part 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records 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).

Please contact Glenn Dentel at (610) 337-5233 with any questions you have regarding this letter.

Sincerely,

/RA Michael L. Scott Acting for/

Ho K. Nieh, Director
Division of Reactor Projects

Docket Nos. 50-272, 50-311
License Nos. DPR-70, DPR-75.

Enclosure: Salem Inspection/Activity Plan

cc w/encl: Distribution via ListServ

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OFFICE	RI/DRP	RI/DRP	RI/DRP	RI/DRP	
NAME	PFinney/ MSD per email	MDraxton/ MSD	GDentel / GTD	HNieh/ MLS for	
DATE	02/23/15	02/25/15	02/25/15	02/27/15	

Salem
Inspection / Activity Plan
01/01/2015 - 06/30/2016

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			TRI FI - TRIENNIAL FIRE PROTECTION INSPECTION		4
1, 2	01/26/2015	01/30/2015	IP 7111105T	Fire Protection [Triennial]	
1, 2	02/09/2015	02/13/2015	IP 7111105T	Fire Protection [Triennial]	
			71152B - PI&R - BIENNIAL		4
1, 2	05/04/2015	05/08/2015	IP 71152B	Problem Identification and Resolution	
1, 2	05/18/2015	05/22/2015	IP 71152B	Problem Identification and Resolution	
			71124 - EFFLUENTS		1
1, 2	06/15/2015	06/19/2015	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	06/15/2015	06/19/2015	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
			EP - EP PROGRAM INSPECTION		2
1, 2	06/22/2015	06/26/2015	IP 7111402	Alert and Notification System Testing	
1, 2	06/22/2015	06/26/2015	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	06/22/2015	06/26/2015	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
			ISFSI - ISFSI LOADING INSPECTION		2
1, 2	07/06/2015	07/10/2015	IP 60855	Operation Of An ISFSI	
1, 2	07/06/2015	07/10/2015	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			71003 - UNIT 1 LR COMMITMENT INSPECTION PHASE II		5
1	07/20/2015	07/24/2015	IP 71003	Post-Approval Site Inspection for License Renewal	
1	08/03/2015	08/07/2015	IP 71003	Post-Approval Site Inspection for License Renewal	
			7111111B - REQUAL INSP W/ P/F RESULTS		2
1, 2	09/07/2015	09/11/2015	IP 7111111B	Licensed Operator Requalification Program	
			12/14EXM - INITIAL OL EXAM		4
1	11/16/2015	11/20/2015	U01910	FY16 - SALEM INITIAL OPERATOR LICENSING EXAM	
1	12/14/2015	12/24/2015	U01910	FY16 - SALEM INITIAL OPERATOR LICENSING EXAM	
			71124 - RADIATION PROTECTION		1
1, 2	10/05/2015	10/09/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	10/05/2015	10/09/2015	IP 71124.02	Occupational ALARA Planning and Controls	
2	10/05/2015	10/09/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	10/05/2015	10/09/2015	IP 71124.04	Occupational Dose Assessment	
1, 2	10/05/2015	10/09/2015	IP 71124.05	Radiation Monitoring Instrumentation	
			71124.08 - RADWASTE		1
1, 2	10/19/2015	10/23/2015	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	

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

Salem
Inspection / Activity Plan
01/01/2015 - 06/30/2016

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			7111108P - U2 INSERVICE INSPECTION		1
2	11/02/2015	11/13/2015	IP 7111108P	Inservice Inspection Activities - PWR	
			71124 - RADIATION PROTECTION		1
2	11/02/2015	11/06/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2	11/02/2015	11/06/2015	IP 71124.02	Occupational ALARA Planning and Controls	
2	11/02/2015	11/06/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2	11/02/2015	11/06/2015	IP 71124.04	Occupational Dose Assessment	
2	11/02/2015	11/06/2015	IP 71124.05	Radiation Monitoring Instrumentation	
			71124 - RADIATION PROTECTION		1
1, 2	11/16/2015	11/20/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	11/16/2015	11/20/2015	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	11/16/2015	11/20/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	11/16/2015	11/20/2015	IP 71124.04	Occupational Dose Assessment	
1, 2	11/16/2015	11/20/2015	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	11/16/2015	11/20/2015	IP 71151	Performance Indicator Verification	
			71124 - RADIATION PROTECTION		1
1, 2	03/07/2016	03/11/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/07/2016	03/11/2016	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	03/07/2016	03/11/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	03/07/2016	03/11/2016	IP 71124.04	Occupational Dose Assessment	
1, 2	03/07/2016	03/11/2016	IP 71124.05	Radiation Monitoring Instrumentation	
			EP - EP EXERCISE EVALUATION		4
1, 2	05/16/2016	05/20/2016	IP 7111401	Exercise Evaluation	
			71124 - RADIATION PROTECTION		1
1	04/11/2016	04/15/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	04/11/2016	04/15/2016	IP 71124.02	Occupational ALARA Planning and Controls	
1	04/11/2016	04/15/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	04/11/2016	04/15/2016	IP 71124.04	Occupational Dose Assessment	
1	04/11/2016	04/15/2016	IP 71124.05	Radiation Monitoring Instrumentation	
			71003 - U1 LR COMMITMENTS - OUTAGE		1
1	04/18/2016	04/22/2016	IP 71003	Post-Approval Site Inspection for License Renewal	
			ISI - U1 INSERVICE INSPECTION		1
1	04/18/2016	04/29/2016	IP 7111108P	Inservice Inspection Activities - PWR	

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Salem
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01/01/2015 - 06/30/2016

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	Start	End			
71124 - RADIATION PROTECTION					1
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1, 2	05/16/2016	05/20/2016	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	05/16/2016	05/20/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	05/16/2016	05/20/2016	IP 71124.04	Occupational Dose Assessment	
1, 2	05/16/2016	05/20/2016	IP 71124.05	Radiation Monitoring Instrumentation	
71124 - ENVIRONMENTAL					1
1	06/06/2016	06/10/2016	IP 71124.07	Radiological Environmental Monitoring Program	

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