



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

March 1, 2017

Mr. Peter Sena
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 (SALEM), UNIT NOS. 1 AND 2 (REPORTS 05000272/2016006 AND 05000311/2016006)

Dear Mr. Sena:

The U.S. Nuclear Regulatory Commission (NRC) has completed its end-of-cycle performance assessment of Salem Units 1 and 2, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2016, through December 31, 2016. 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 concluded that overall performance at your facility preserved public health and safety.

The NRC determined the performance at Salem Unit 1 during the most recent quarter was within the Licensee Response Column (Column 1) of the NRC's Reactor Oversight Process (ROP) Action Matrix in Inspection Manual Chapter 0305, "Operating Reactor Assessment Program," because all inspection findings had very low safety significance (i.e., Green), and all PIs were within the expected range (i.e., Green). Therefore, the NRC plans to conduct ROP baseline inspections at Salem Unit 1.

The NRC determined the performance of Salem Unit 2 during the most recent quarter was within the Regulatory Response Column (Column 2) of the NRC's ROP Action Matrix. This conclusion was based on all inspection findings having very low safety significance (i.e., Green) and a single White PI for "Unplanned Scrams per 7,000 Hours Critical." Specifically, Salem Unit 2 crossed the Green-White threshold in the second quarter of 2016 due to four unplanned scrams that occurred on August 5, 2015, February 2 and 14, 2016, and June 28, 2016. This PI remains White because the supplemental inspection in accordance with Inspection Procedure (IP) 95001, "Supplemental Inspection Response to Action Matrix Column 2 Inputs," has not been completed and an additional unplanned scram occurred on August 31, 2016. As previously noted in the 2016 mid-cycle letter (Reports 05000272/2016005 and 05000311/2016005; ML16242A099¹), the NRC plans to conduct this supplemental inspection after you notify the NRC of your readiness for it.

¹ The designation in parentheses refers to an Agencywide Documents Access and Management System (ADAMS) Accession Number. Documents referenced in this letter are publicly available using the Accession Number in ADAMS.

P. Sena

-2-

The enclosed inspection plan lists the inspections scheduled through December 31, 2018. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. In addition to baseline inspections, the NRC will perform Temporary Instruction 2515/192, "Inspection of the Licensee's Interim Compensatory Measures Associated with the Open Phase Condition Design Vulnerabilities in Electric Power Systems." The inspections listed during the last twelve months of the inspection plan are tentative and may be revised. 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 the plan for security-related inspections, which will be sent via separate, non-publicly available correspondence.

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 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 (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).

Please contact Fred Bower at (610) 337-5200 with any questions you have regarding this letter.

Sincerely,

/RA/

Michael L. Scott, Director
Division of Reactor Projects

Docket Nos.: 50-272 and 50-311
License Nos.: DPR 70 and DPR 75

Enclosure:
Salem Inspection/Activity Plan

cc w/encl: Distribution via ListServ

P. Sena

-3-

SUBJECT: ANNUAL ASSESSMENT LETTER FOR SALEM NUCLEAR GENERATING STATION (SALEM), UNITS 1 AND 2 (REPORTS 05000272/2016006 AND 05000311/2016006) dated March 1, 2017

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Salem
Inspection / Activity Plan
01/01/2017 - 12/31/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
71124 - RAD PROTECTION					1
1, 2	01/09/2017	01/13/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	01/09/2017	01/13/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	01/09/2017	01/13/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	01/09/2017	01/13/2017	IP 71124.05	Radiation Monitoring Instrumentation	
EP - EP PROGRAM INSPECTION					1
1, 2	06/05/2017	06/09/2017	IP 7111402	Alert and Notification System Testing	
1, 2	06/05/2017	06/09/2017	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	06/05/2017	06/09/2017	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	06/05/2017	06/09/2017	IP 71151	Performance Indicator Verification	
7111108P - U2 INSERVICE INSPECTION					1
2	04/24/2017	05/05/2017	IP 7111108P	Inservice Inspection Activities - PWR	
71124 - RAD PROTECTION					1
2	05/01/2017	05/05/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2	05/01/2017	05/05/2017	IP 71124.02	Occupational ALARA Planning and Controls	
7111121M - DESIGN BASES ASSURANCE INSPECTION (TEAM)					6
1, 2	06/26/2017	06/30/2017	IP 7111121M	Component Design Bases Inspection (Teams)	
1, 2	07/10/2017	07/14/2017	IP 7111121M	Component Design Bases Inspection (Teams)	
7111111B - SALEM REQUAL INSP WITH P/F RESULTS					2
1, 2	09/12/2017	09/16/2017	IP 7111111A	Licensed Operator Requalification Program - Annual Review	
1, 2	09/12/2017	09/16/2017	IP 7111111B	Licensed Operator Requalification Program	
71152B - PI&R BIENNIAL					5
1, 2	08/14/2017	08/18/2017	IP 71152B	Problem Identification and Resolution	
1, 2	08/28/2017	09/01/2017	IP 71152B	Problem Identification and Resolution	
1/22EXM - SALEM INITIAL EXAM					4
1	12/11/2017	12/15/2018	U01949	FY18-SALEM INITIAL OPERATOAR LICENSING EXAM	
1	01/22/2018	02/02/2018	U01949	FY18-SALEM INITIAL OPERATOAR LICENSING EXAM	
71124.06 - RETS					1
1, 2	08/28/2017	09/01/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
71124 - RAD PROTECTION					1
1	10/23/2017	10/27/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	10/23/2017	10/27/2017	IP 71124.02	Occupational ALARA Planning and Controls	

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

Salem
Inspection / Activity Plan
01/01/2017 - 12/31/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			7111108P - U1 INSERVICE INSPECTION		1
1	10/23/2017	11/03/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			71124.08 - RADWASTE		1
1, 2	12/04/2017	12/08/2017	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1, 2	12/04/2017	12/08/2017	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1, 2	12/04/2017	12/08/2017	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			7111105T - TRIENNIAL FIRE PROTECTION		4
1, 2	02/12/2018	02/16/2018	IP 7111105T	Fire Protection [Triennial]	
1, 2	02/26/2018	03/02/2018	IP 7111105T	Fire Protection [Triennial]	
			71124 - BASELINE HP		1
1, 2	02/26/2018	03/02/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	02/26/2018	03/02/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	02/26/2018	03/02/2018	IP 71124.04	Occupational Dose Assessment	
			EP - EP EXERCISE INSPECTION		4
1, 2	05/21/2018	05/25/2018	IP 7111401	Exercise Evaluation	
			7111117T - 50.59 PROCESS		3
1, 2	04/30/2018	05/04/2018	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			71124 - BASELINE HP		1
1, 2	05/21/2018	05/25/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	05/21/2018	05/25/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	05/21/2018	05/25/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
			71124.07 - REMP		1
1, 2	06/25/2018	06/29/2018	IP 71124.07	Radiological Environmental Monitoring Program	
			71124.06 - RETS & PI VERIFICATION		1
1, 2	09/10/2018	09/14/2018	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	09/10/2018	09/14/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1, 2	09/10/2018	09/14/2018	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			U2 ISI - UNIT 2 INSERVICE INSPECTION		2
2	10/22/2018	11/02/2018	IP 7111108P	Inservice Inspection Activities - PWR	
			71124 - BASELINE HP		1
1	10/29/2018	11/02/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	10/29/2018	11/02/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	10/29/2018	11/02/2018	IP 71124.04	Occupational Dose Assessment	

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