



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION I
2100 RENAISSANCE BOULEVARD, SUITE 100
KING OF PRUSSIA, PA 19406-2713

February 28, 2018

Mr. Peter P. Sena, III
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, UNITS 1 AND 2 (REPORTS 05000272/2017006, 05000311/2017006, 05000272/2017402, 05000311/2017402, 05000272/2017501, AND 05000311/2017501)

Dear Mr. Sena:

The NRC has completed its end-of-cycle performance assessment of Salem Nuclear Generating Station, Units 1 & 2 (Salem), reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2017 through December 31, 2017. 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 at the end of 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.

As of October 24, 2017, Salem Unit 2 transitioned to the Licensee Response Column (Column 1) after the successful completion of a supplemental inspection in accordance with Inspection Procedure 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area," on September 15, 2017. The results of this inspection are documented in NRC Supplemental IR 05000311/2017011 (ML17297A437) dated October 24, 2017. Therefore, the NRC also plans to conduct ROP baseline inspections at Salem Unit 2.

The enclosed inspection plan lists the inspections scheduled through December 31, 2019. This updated inspection plan now includes planned security inspections which were formerly transmitted under separate correspondence. 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. 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.

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/

David L. Pelton, Acting Director
Division of Reactor Projects

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

Enclosure: Salem 1 and 2 Inspection Plan

cc: Distribution via ListServ

SUBJECT: ANNUAL ASSESSMENT LETTER FOR SALEM NUCLEAR GENERATING STATION, UNITS 1 AND 2 (REPORTS 05000272/2017006, 05000311/2017006, 05000272/2017402, 05000311/2017402, 05000272/2017501, AND 05000311/2017501) DATED FEBRUARY 28, 2018

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OFFICIAL RECORD COPY

IP 22 Inspection Activity Plan Report

Salem

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
SALEM INITIAL OL EXAM						4
1, 2	01/21/2018	01/26/2018	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
TRIENNIAL FIRE PROTECTION						4
1, 2	02/12/2018	02/16/2018	IP 71111.05T	000696	Fire Protection (Triennial)	
1, 2	02/26/2018	03/02/2018	IP 71111.05T	000696	Fire Protection (Triennial)	
BASELINE HP						1
1, 2	02/26/2018	03/02/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	02/26/2018	03/02/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	02/26/2018	03/02/2018	IP 71124.04	000728	Occupational Dose Assessment	
ACCESS CONTROL, EQUIP PERF, TRAINING						3
1, 2	03/26/2018	03/30/2018	IP 71130.02	000734	Access Control	
1, 2	03/26/2018	03/30/2018	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2	03/26/2018	03/30/2018	IP 71130.07	000739	Security Training	
1, 2	03/26/2018	03/30/2018	IP 71151	001338	Performance Indicator Verification	
50.59 PROCESS						3
1, 2	04/30/2018	05/04/2018	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
EP EXERCISE INSPECTION						4
1, 2	05/21/2018	05/25/2018	IP 71114.01	000716	Exercise Evaluation	
1, 2	05/21/2018	05/25/2018	IP 71151	001397	Performance Indicator Verification	
BASELINE HP						1
1, 2	05/21/2018	05/25/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	05/21/2018	05/25/2018	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
CYBER FULL IMP						4
1, 2	06/04/2018	06/08/2018	IP 71130.10P	000741	Cyber Security	
1, 2	06/18/2018	06/22/2018	IP 71130.10P	000741	Cyber Security	
ISFSI OPERATIONAL INSPECTION						2
1, 2	07/23/2018	07/27/2018	IP 60855	001001	Operation Of An ISFSI	
1, 2	07/23/2018	07/27/2018	IP 60855.1	000590	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	

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

IP 22 Inspection Activity Plan Report

Salem

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
Salem REMP						1
1, 2	08/27/2018	08/31/2018	IP 71124.07	000731	Radiological Environmental Monitoring Program	
RETS & PI VERIFICATION						1
1, 2	09/10/2018	09/14/2018	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	09/10/2018	09/14/2018	IP 71151	000746	Performance Indicator Verification	
UNIT 2 INSERVICE INSPECTION						1
2	10/22/2018	11/02/2018	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
BASELINE HP						1
1	10/29/2018	11/02/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	10/29/2018	11/02/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	10/29/2018	11/02/2018	IP 71124.04	000728	Occupational Dose Assessment	
SALEM INITIAL OL EXAM						4
1, 2	11/26/2018	11/30/2018	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	01/14/2019	01/25/2019	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
PI&R BIENNIAL						4
1, 2	01/28/2019	02/01/2019	IP 71152B	000747	Problem Identification and Resolution	
1, 2	02/11/2019	02/15/2019	IP 71152B	000747	Problem Identification and Resolution	
HP						1
1, 2	02/04/2019	02/08/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	02/04/2019	02/08/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
EP PROGRAM INSPECTION						2
1, 2	02/11/2019	02/15/2019	IP 71114.02	000717	Alert and Notification System Testing	
1, 2	02/11/2019	02/15/2019	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1, 2	02/11/2019	02/15/2019	IP 71114.05	000720	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	02/11/2019	02/15/2019	IP 71151	001397	Performance Indicator Verification	
INSERVICE INSPECTION - UNIT 1						1
1	04/15/2019	04/26/2019	IP 71111.08P	000702	Inservice Inspection Activities - PWR	

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IP 22 Inspection Activity Plan Report

Salem

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
HP						
1	04/15/2019	04/19/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	1
ACCESS CONTROL, PROTECTIVE STRATEGY, TSR						
1, 2	06/17/2019	06/21/2019	IP 71130.02	000734	Access Control	4
1, 2	06/17/2019	06/21/2019	IP 71130.05	000737	Protective Strategy Evaluation	
1, 2	06/17/2019	06/21/2019	IP 71130.14	000743	Review of Power Reactor Target Sets	
1, 2	06/17/2019	06/21/2019	IP 71151	001338	Performance Indicator Verification	
EQ PROGRAM						
1, 2	08/19/2019	08/23/2019	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	3
1, 2	09/09/2019	09/13/2019	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
SALEM REQUAL INSP WITH P/F RESULTS						
1, 2	09/16/2019	09/20/2019	IP 71111.11A	000703	Licensed Operator Requalification Program and Licensed Operator Performance - Annual	2
1, 2	09/16/2019	09/20/2019	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance - Biennial	
HP						
1, 2	09/23/2019	09/27/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	1
1, 2	09/23/2019	09/27/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	09/23/2019	09/27/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	09/23/2019	09/27/2019	IP 71124.04	000729	Occupational Dose Assessment	
1, 2	09/23/2019	09/27/2019	IP 71124.05	000729	Radiation Monitoring Instrumentation	
Triennial Heat Sink						
1, 2	11/18/2019	11/22/2019	IP 71111.07T	000700	Heat Sink Performance -Triennial	1
Radwaste						
1, 2	12/09/2019	12/13/2019	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	1
1, 2	12/09/2019	12/13/2019	IP 71151	000746	Performance Indicator Verification	