



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

March 3, 2020

Eric Carr
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 05000272/2019006 AND 05000311/2019006)

Dear Mr. Carr,

The NRC has completed its end-of-cycle performance assessment of Salem Nuclear Generating Station, Unit 1 and Unit 2, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2019 through December 31, 2019. 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 Units 1 and 2 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 Units 1 and 2.

The enclosed inspection plan lists the inspections scheduled through December 31, 2021. 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. You should be aware that the agency is pursuing potential changes to the ROP, including changes to engineering inspections (SECY-18-0113, "Recommendations for Modifying the Reactor Oversight Process Engineering Inspections") and other changes to the baseline inspection program described in SECY-19-0067, "Recommendations for Enhancing the Reactor Oversight Process." Should these changes to the ROP be implemented, the engineering and other region-based inspections are subject to change in scope, as well as schedule. Furthermore, all 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.

Additionally, during this period the NRC will schedule an additional inspection per a revised version of Temporary Instruction (TI) 2515/194, "Inspection of the Licensee's Implementation of Industry Initiative Associated with the Open Phase Condition Design Vulnerability in Electrical Power Systems (NRC Bulletin 2012-01)" for any sites who elect to implement the guidance of

the Industry Initiative on Open Phase Condition, Revision 3 (ML19163A176). Licensees will be individually notified when the NRC schedules these inspections.

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's Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC's Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at 610-337-5312 with any questions you have regarding this letter.

Sincerely,

X /RA/

Signed by: NRC-PIV
Brice Bickett, Chief
Project Branch 3
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

SUBJECT: ANNUAL ASSESSMENT LETTER FOR SALEM NUCLEAR GENERATING STATION, UNITS 1 AND 2 (REPORTS 05000272/2019006 AND 05000311/2019006) DATAED MARCH 3, 2020

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NAME	EBurket	BBickett			
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IP 22 Inspection Activity Plan Report

Salem

02/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
FORCE-ON-FORCE PLANNING AND EXERCISE WEEKS - SL						6
1, 2	02/24/2020	02/28/2020	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1, 2	03/16/2020	03/20/2020	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
TI-194 Open Phase Condition Inspection-Salem						2
1, 2	03/02/2020	03/06/2020	TI 2515/194	000512	Inspection of the Licensee's Implementation of Industry Initiative Associated With the Open Phase Condition Design Vulnerabilities In Electric Power Systems (NRC Bulletin 2012-01)	
Annual Sample: Baffle Former and Thermal Shield Support Bolts						1
1	03/16/2020	03/20/2020	IP 71152	000748	Problem Identification and Resolution	
ISI - UNIT 2						1
2	04/12/2020	04/25/2020	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
RP Rad Hazard Assessment / In-Plant Airborne Radioactivity Control 71124.01, .03						1
1, 2	05/04/2020	05/08/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	05/04/2020	05/08/2020	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
EP Exercise Inspection (at Hope Creek)						5
1, 2	05/18/2020	05/22/2020	IP 71114.01	000716	Exercise Evaluation	
1, 2	05/18/2020	05/22/2020	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	05/18/2020	05/22/2020	IP 71151	001397	Performance Indicator Verification	
FY20 SALEM Initial Exam						4
1, 2	06/14/2020	06/28/2020	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	07/12/2020	07/26/2020	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
Access Control, Equip Perf, Training-SL						3
1, 2	07/06/2020	07/10/2020	IP 71130.02	000734	Access Control	
1, 2	07/06/2020	07/10/2020	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2	07/06/2020	07/10/2020	IP 71130.07	000739	Security Training	
1, 2	07/06/2020	07/10/2020	IP 71130.09	001656	Security Plan Changes	
1, 2	07/06/2020	07/10/2020	IP 71151	001338	Performance Indicator Verification	

IP 22 Inspection Activity Plan Report

Salem

02/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
Material Control and Accountability - Salem Units 1 and 2						1
1, 2	09/14/2020	09/18/2020	IP 71130.11	000742	Material Control and Accounting (MC&A)	
ISI - UNIT 1						1
1	10/25/2020	11/07/2020	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
RP Radiological Hazard Assess; Occupational ALARA; In-Plant Airborne Control IP 71124.01, .02, .03						1
1, 2	10/26/2020	10/30/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	10/26/2020	10/30/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	10/26/2020	10/30/2020	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
RP Rad Instrumentation / Performance Indicators 71124.05; 71151						1
1, 2	11/30/2020	12/04/2020	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2	11/30/2020	12/04/2020	IP 71151	000746	Performance Indicator Verification	
TRIENNIAL FIRE PROTECTION						3
1, 2	01/25/2021	01/29/2021	IP 71111.21N.05	001646	Fire Protection Team Inspection (FPTI)	
1, 2	02/08/2021	02/12/2021	IP 71111.21N.05	001646	Fire Protection Team Inspection (FPTI)	
Access Auth, Fitness for Duty, Access Control, PI						3
1, 2	02/01/2021	02/05/2021	IP 71130.01	000733	Access Authorization	
1, 2	02/01/2021	02/05/2021	IP 71130.02	000734	Access Control	
1, 2	02/01/2021	02/05/2021	IP 71130.08	000740	Fitness For Duty Program	
1, 2	02/01/2021	02/05/2021	IP 71130.09	001656	Security Plan Changes	
1, 2	02/01/2021	02/05/2021	IP 71151	001338	Performance Indicator Verification	
EP Program Inspection - Salem/Hope Creek						1
1, 2	03/22/2021	03/26/2021	IP 71114.02	000717	Alert and Notification System Testing	
1, 2	03/22/2021	03/26/2021	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1, 2	03/22/2021	03/26/2021	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	03/22/2021	03/26/2021	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1, 2	03/22/2021	03/26/2021	IP 71151	001397	Performance Indicator Verification	
PI&R BIENNIAL - SL						4
1, 2	04/26/2021	04/30/2021	IP 71152B	000747	Problem Identification and Resolution	
1, 2	05/10/2021	05/14/2021	IP 71152B	000747	Problem Identification and Resolution	

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

02/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
RP Radioactive Gaseous and Liquid Effluent Treatment 71124.06						1
1, 2	05/24/2021	05/28/2021	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
Evaluations of Changes, Tests and Experiments						3
1, 2	06/13/2021	06/19/2021	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
RP Solid Waste Processing, Handling, Storage, and Transportation IP 71124.08						1
1, 2	07/12/2021	07/16/2021	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
Salem Requal Inspection with P/F Results						2
1, 2	09/20/2021	09/24/2021	IP 71111.11A	000703	Licensed Operator Requalification Program and Licensed Operator Performance	
1, 2	09/20/2021	09/24/2021	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
INSERVICE INSPECTION - UNIT 2						1
2	10/24/2021	11/06/2021	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
RP Rad Haz Assess / Occupational ALARA / Performance Indicators 71124.01, .02 & 71151						1
1, 2	11/01/2021	11/05/2021	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	11/01/2021	11/05/2021	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	11/01/2021	11/05/2021	IP 71151	000746	Performance Indicator Verification	