



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

March 3, 2021

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 05000272/2020006 AND 05000311/2020006)

Dear Mr. Carr,

The NRC has completed its end-of-cycle performance assessment of Salem Nuclear Generating Station (Salem), Unit 1 and Unit 2, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2020 through December 31, 2020. 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 baseline inspection program was completed at your facility as defined in Inspection Manual Chapter 2515, "Light-Water Reactor Inspection Program – Operations Phase."

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, 2022. 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 response to the COVID-19 public health emergency (PHE), the NRC is adjusting inspection plans and schedules in order to safeguard the health and safety of both NRC and licensee staff while still effectively implementing the ROP. Each planned inspection is being carefully reviewed in order to determine if any portions of the inspection can be performed remotely, how best to perform on-site portions to minimize personnel health risks, and adjust inspection schedules if needed. This is done in accordance with guidance contained in the February 1, 2021 memo, "Calendar Year 2021 Inspection Guidance During COVID-19 Telework Restrictions" (ML21027A274). For inspections requiring extensive coordination with offsite organizations, such as evaluated emergency preparedness exercises, NRC guidance and

frequently asked questions for security and emergency preparedness can be found here: <https://www.nrc.gov/about-nrc/covid-19/security-ep/>. Similarly, the NRC has developed guidance if force-on-force inspections cannot be completed as scheduled due to an emergency, such as the COVID-19 PHE. These changes help ensure the health and safety of both NRC and licensee staff while maintaining the NRC's important safety and security mission during the COVID-19 PHE. The attached inspection plan is accurate on the date of issuance but remains subject to change based on approval of potential exemption requests or other changes needed due to changing conditions in the COVID-19 PHE. NRC staff will contact your appropriate regulatory affairs staff in order to coordinate inspection planning and scheduling.

Additionally, during this period the NRC will schedule an additional inspection per a revised version 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), which included an option for relying on annunciation and operator manual actions instead of automatic protective features to isolate a power supply affected by an open phase condition. 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: Brice A. Bickett

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 Inspection Plan

SUBJECT: ANNUAL ASSESSMENT LETTER FOR SALEM NUCLEAR GENERATING STATION, UNITS 1 AND 2 (REPORTS 05000272/2020006 AND 05000311/2020006) DATED MARCH 3, 2021

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| <input checked="" type="checkbox"/> SUNSI Review | | <input checked="" type="checkbox"/> Non-Sensitive | | <input checked="" type="checkbox"/> Publicly Available | |
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OFFICIAL RECORD COPY

IP 22 Inspection Activity Plan Report

Salem

01/01/2021 - 12/31/2022

| Unit | Start | End | Activity | CAC | Title | Staff Count |
|---|------------|------------|-----------------|--------|---|-------------|
| Fire Protection - Salem | | | | | | 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 | 02/02/2021 | 02/04/2021 | IP 71130.01 | 000733 | Access Authorization | |
| 1, 2 | 02/02/2021 | 02/04/2021 | IP 71130.02 | 000734 | Access Control | |
| 1, 2 | 02/02/2021 | 02/04/2021 | IP 71130.08 | 000740 | Fitness For Duty Program | |
| 1, 2 | 02/02/2021 | 02/04/2021 | IP 71130.09 | 001656 | Security Plan Changes | |
| 1, 2 | 02/02/2021 | 02/04/2021 | IP 71151 | 001338 | Performance Indicator Verification | |
| 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 & Radioactive Material Handling, Storage, & Transportation | |
| PI&R BIENNIAL - SL | | | | | | 4 |
| 1, 2 | 08/30/2021 | 09/03/2021 | IP 71152B | 000747 | Problem Identification and Resolution | |
| 1, 2 | 09/13/2021 | 09/17/2021 | IP 71152B | 000747 | Problem Identification and Resolution | |
| RP Occupational ALARA and Controls 71124.02 (REMOTE) | | | | | | 1 |
| 1, 2 | 09/13/2021 | 09/17/2021 | IP 71124.02 | 000726 | Occupational ALARA Planning and Controls | |
| TI-194 Open Phase Condition Inspection - Salem | | | | | | 2 |
| 1, 2 | 09/20/2021 | 09/24/2021 | 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) | |
| 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 | 10/17/2021 | 10/30/2021 | IP 71111.08P | 000702 | Inservice Inspection Activities (PWR) | |

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

01/01/2021 - 12/31/2022

| Unit | Start | End | Activity | CAC | Title | Staff Count |
|--|------------|------------|--------------|--------|--|-------------|
| 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 | |
| EP EXERCISE INSPECTION - HOPE CREEK | | | | | | 5 |
| 1, 2 | 11/01/2021 | 11/05/2021 | IP 71114.01 | 000716 | Exercise Evaluation | |
| 1, 2 | 11/01/2021 | 11/05/2021 | IP 71151 | 001397 | Performance Indicator Verification | |
| FY22 Salem Initial License Exam | | | | | | 5 |
| 1, 2 | 01/09/2022 | 01/14/2022 | OV | 000956 | VALIDATION OF INITIAL LICENSE EXAMINATION (OV) | |
| 1, 2 | 02/13/2022 | 02/27/2022 | EXAD | 000500 | LICENSE EXAM ADMINISTRATION (EXAD) | |
| Inservice Inspection - Salem Unit 1 | | | | | | 1 |
| 1 | 04/25/2022 | 05/06/2022 | IP 71111.08P | 000702 | Inservice Inspection Activities (PWR) | |
| RP Rad Hazard Assessment 71124.01 | | | | | | 1 |
| 1, 2 | 05/02/2022 | 05/06/2022 | IP 71124.01 | 000725 | Radiological Hazard Assessment and Exposure Controls | |
| EP EXERCISE INSPECTION - SALEM | | | | | | 4 |
| 1, 2 | 05/23/2022 | 05/27/2022 | IP 71114.01 | 000716 | Exercise Evaluation | |
| 1, 2 | 05/23/2022 | 05/27/2022 | IP 71151 | 001397 | Performance Indicator Verification | |
| RP Rad Instrumentation 71124.05 | | | | | | 1 |
| 1, 2 | 05/23/2022 | 05/27/2022 | IP 71124.05 | 000729 | Radiation Monitoring Instrumentation | |
| Access Control, Protective Strat, TSR, SPR, PI-SAL | | | | | | 4 |
| 1, 2 | 06/06/2022 | 06/10/2022 | IP 71130.02 | 000734 | Access Control | |
| 1, 2 | 06/06/2022 | 06/10/2022 | IP 71130.05 | 000737 | Protective Strategy Evaluation | |
| 1, 2 | 06/06/2022 | 06/10/2022 | IP 71130.09 | 001656 | Security Plan Changes | |
| 1, 2 | 06/06/2022 | 06/10/2022 | IP 71130.14 | 000743 | Review of Power Reactor Target Sets | |
| 1, 2 | 06/06/2022 | 06/10/2022 | IP 71151 | 001338 | Performance Indicator Verification | |
| RP Radioactive Gaseous and Liquid Effluent Treatment 71124.06 | | | | | | 1 |
| 1, 2 | 06/27/2022 | 07/01/2022 | IP 71124.06 | 000730 | Radioactive Gaseous and Liquid Effluent Treatment | |

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This report shows only on-site and announced inspection procedures.

IP 22 Inspection Activity Plan Report

Salem

01/01/2021 - 12/31/2022

| Unit | Start | End | Activity | CAC | Title | Staff Count |
|--|------------|------------|-----------------|--------|---|-------------|
| Design Basis Assurance Inspection - Power Operated Valves - Salem Units 1 and 2 | | | | | | 3 |
| 1, 2 | 07/11/2022 | 07/29/2022 | IP 71111.21N.02 | 001645 | Design-Basis Capability of Power-Operated Valves Under 10 CFR 50.55a Requirements | |
| ISFSI Operational Inspection (60855) - Salem | | | | | | 1 |
| 1, 2 | 07/18/2022 | 07/22/2022 | IP 60855 | 001001 | Operation Of An ISFSI | |
| RP Rad Environmental Monitoring Program 71124.07 | | | | | | 1 |
| 1, 2 | 07/25/2022 | 07/29/2022 | IP 71124.07 | 000731 | Radiological Environmental Monitoring Program | |
| Triennial Heat Sink - Salem Units 1 and 2 | | | | | | 1 |
| 1, 2 | 09/12/2022 | 09/16/2022 | IP 71111.07T | 000700 | Heat Sink Performance | |
| RP Rad Airborne / Dose Assessment / PIs 71124.03/.04/71151 | | | | | | 1 |
| 1, 2 | 10/03/2022 | 10/07/2022 | IP 71124.03 | 000727 | In-Plant Airborne Radioactivity Control and Mitigation | |
| 1, 2 | 10/03/2022 | 10/07/2022 | IP 71124.04 | 000728 | Occupational Dose Assessment | |
| 1, 2 | 10/03/2022 | 10/07/2022 | IP 71151 | 000746 | Performance Indicator Verification | |