



**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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| <input checked="" type="checkbox"/> SUNSI Review | | <input checked="" type="checkbox"/> Non-Sensitive Sensitive | | <input checked="" type="checkbox"/> Publicly Available Non-Publicly Available | |
| OFFICE | R/DRP | R/DRP | | | |
| NAME | EBurket | BBickett | | | |
| DATE | 2/24/20 | 3/3/20 | | | |

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 | |

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 |
|---|------------|------------|-----------------|--------|--|-------------|
| 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 | |