



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

September 1, 2011

Mr. Thomas P. Joyce  
President and Chief Nuclear Officer  
PSEG Nuclear LLC - N09  
P.O. Box 236  
Hancocks Bridge, NJ 08038

SUBJECT: MID-CYCLE LETTER FOR SALEM NUCLEAR GENERATING STATION,  
UNIT NOS. 1 AND 2 (REPORT 05000272/2011006 and 05000311/2011006)

Dear Mr. Joyce:

On August 11, 2011, the NRC completed its mid-cycle performance review of Salem Nuclear Generating Station. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2010, through June 30, 2011. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

The NRC determined the performance at Salem Nuclear Generating Station during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through December 31, 2012. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the end-of-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. In addition to the baseline inspections, we plan to conduct an inspection of your ISFSI. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

In the days following the Fukushima Daiichi nuclear accident in Japan, the Commission directed the staff to establish a senior-level agency task force to conduct a methodical and systematic review of the NRC's processes and regulations to determine whether the agency should make additional improvements to its regulatory system. The NRC has since completed Temporary Instruction (TI) 183, "Follow-up to Fukushima Daiichi Nuclear Station Fuel Damage Event," and TI-184, "Availability and Readiness Inspection of Severe Accident Management Guidelines (SAMGs)" at your facility. Results of these inspections can be found here: <http://www.nrc.gov/japan/japan-activities.html>. Additionally, on May 11, 2011, the agency issued NRC Bulletin 2011-01, "Mitigating Strategies," to confirm compliance with Order

EA-02-026, subsequently imposed license conditions, and 10 CFR 50.54(hh)(2), and to determine the status of licensee mitigating strategies programs. On July 12, 2011, the NRC's Task Force made its recommendations to the Commission in its report, "Recommendations for Enhancing Reactor Safety in the 21<sup>st</sup> Century: The Near-Term Task Force Review of Insights from the Fukushima Daiichi Accident." The NRC is currently reviewing the Task Force's recommendations to determine what additional actions may be warranted.

In accordance with 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 me at 610-337-5069 with any questions you have regarding this letter.

Sincerely,

A handwritten signature in black ink, appearing to read "Arthur L. Burritt", with a long horizontal flourish extending to the right.

Arthur L. Burritt, Chief  
Projects Branch 3  
Division of Reactor Projects

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

Enclosure: Inspection Plan

cc w/encl: Distribution via ListServ

EA-02-026, subsequently imposed license conditions, and 10 CFR 50.54(hh)(2), and to determine the status of licensee mitigating strategies programs. On July 12, 2011, the NRC's Task Force made its recommendations to the Commission in its report, "Recommendations for Enhancing Reactor Safety in the 21<sup>st</sup> Century: The Near-Term Task Force Review of Insights from the Fukushima Daiichi Accident." The NRC is currently reviewing the Task Force's recommendations to determine what additional actions may be warranted.

In accordance with 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 me at 610-337-5069 with any questions you have regarding this letter.

Sincerely,

/RA/

Arthur L. Burritt, Chief  
Projects Branch 3  
Division of Reactor Projects

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

Enclosure:  
Inspection Plan

cc w/encl: Distribution via ListServ

Distribution: See attached page

**SUNSI REVIEW COMPLETE: ALB (Reviewer's Initials) ML112411294**

DOCUMENT NAME: S:\ROP-12 MID-CYCLE REVIEW\BRANCH 3\LETTERS(ATTACHMENT1)\  
SALEM MID-CYCLE LETTER2011.DOCX

After declaring this document "An Official Agency Record" it **will** be released to the Public.

To receive a copy of this document, indicate in box: "C" = Copy w/o attachment/enclosure, "E" = Copy w/ attachment/enclosure "N" = No copy

|                   |                    |  |            |  |              |  |
|-------------------|--------------------|--|------------|--|--------------|--|
| OFFICE <i>mmt</i> | RI/DRP             |  | RI/DRP     |  | R/DRP        |  |
| NAME              | DSchroeder/ LC for |  | LCline/ LC |  | ABurritt/ALB |  |
| DATE              | 08/ 26 /11         |  | 08/26 /11  |  | 08/29/11     |  |

OFFICIAL RECORD COPY

Distribution w/encl:

W. Dean, RA (R1ORAMAIL Resource)  
D. Lew, DRA (R1ORAMAIL Resource)  
D. Roberts, DRP (R1DRPMAIL Resource)  
J. Clifford, DRP (R1DRPMAIL Resource)  
C. Miller, DRS (R1DRSMail Resource)  
P. Wilson, DRS (R1DRSMail Resource)  
A. Burritt, DRP  
L. Cline, DRP  
A. Turilin, DRP  
C. Douglas, DRP  
D. Schroeder, DRP, SRI  
P. McKenna, DRP, RI  
K. McKenzie, DRP, OA  
J. McHale, RI OEDO  
DRS Branch Chiefs (6)  
N. McNamara, RI, SLO  
D. Tift, RI, SLO  
D. Screnci, RI, PAO  
N. Sheehan, RI, PAO  
R. Barkley, RI, ORA  
RidsNrrPMSalem Resource  
RidsNrrDorlLpl1-2 Resource  
ROPreports Resource  
RidsNrrDirslpab Resource  
ROPassessment Resource

## Salem

## Inspection / Activity Plan

07/01/2011 - 12/31/2012

| Unit Number | Planned Dates Start | Planned Dates End | Inspection Activity                                    | Title  | No. of Staff on Site |
|-------------|---------------------|-------------------|--|--|----------------------|
|             |                     |                   | <b>0912EXM - OPERATOR LICENSING INITIAL EXAMS</b>      |  | <b>4</b>             |
| 1           | 08/15/2011          | 08/19/2011        | U01830   | FY11- SALEM, INITIAL OL EXAM   |                      |
| 1           | 09/19/2011          | 09/23/2011        | U01830   | FY11- SALEM, INITIAL OL EXAM   |                      |
|             |                     |                   | <b>71152 - PI&amp;R</b>                                |  | <b>4</b>             |
| 1, 2        | 06/27/2011          | 07/01/2011        | IP 71152B  | Problem Identification and Resolution  |                      |
| 1, 2        | 07/18/2011          | 07/22/2011        | IP 71152B  | Problem Identification and Resolution  |                      |
|             |                     |                   | <b>711111B - SALEM REQUAL INSP W/ P/F RESULTS</b>      |  | <b>2</b>             |
| 1, 2        | 08/22/2011          | 08/26/2011        | IP 7111111B  | Licensed Operator Requalification Program  |                      |
|             |                     |                   | <b>ISFSI - ISFSI INSPECTION</b>                        |  | <b>1</b>             |
| 1, 2        | 07/15/2011          | 08/19/2011        | IP 60855.1   | Operation of an Independent Spent Fuel Storage Installation at Operating Plants                    |                      |
|             |                     |                   | <b>71124 - REMP</b>                                    |  | <b>1</b>             |
| 1, 2        | 07/25/2011          | 07/29/2011        | IP 71124.07  | Radiological Environmental Monitoring Program  |                      |
|             |                     |                   | <b>71124 - HP</b>                                      |  | <b>1</b>             |
| 1, 2        | 10/31/2011          | 11/04/2011        | IP 2515/179  | Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS |                      |
| 1, 2        | 10/31/2011          | 11/04/2011        | IP 60855.1   | Operation of an Independent Spent Fuel Storage Installation at Operating Plants                    |                      |
| 1           | 10/31/2011          | 11/04/2011        | IP 71124.01  | Radiological Hazard Assessment and Exposure Controls   |                      |
| 1           | 10/31/2011          | 11/04/2011        | IP 71124.02  | Occupational ALARA Planning and Controls   |                      |
| 1           | 10/31/2011          | 11/04/2011        | IP 71124.05  | Radiation Monitoring Instrumentation   |                      |
|             |                     |                   | <b>7111108P - U1 INSERVICE INSPECTION</b>              |  | <b>1</b>             |
| 1           | 11/07/2011          | 11/18/2011        | IP 7111108P  | Inservice Inspection Activities - PWR  |                      |
|             |                     |                   | <b>71124 - RADWASTE</b>                                |  | <b>2</b>             |
| 1, 2        | 12/05/2011          | 12/09/2011        | IP 71124.08  | Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation  |                      |
|             |                     |                   | <b>TRI FIRE - TRIENNIAL FIRE PROTECTION INSPECTION</b> |  | <b>6</b>             |
| 1, 2        | 01/23/2012          | 01/27/2012        | IP 7111105T  | Fire Protection [Triennial]  |                      |
| 1, 2        | 02/06/2012          | 02/10/2012        | IP 7111105T  | Fire Protection [Triennial]  |                      |
|             |                     |                   | <b>71124.06 - PUB RAD SAFETY - RETS</b>                |  | <b>1</b>             |
| 1, 2        | 01/30/2012          | 02/03/2012        | IP 71124.05  | Radiation Monitoring Instrumentation   |                      |
| 1, 2        | 01/30/2012          | 02/03/2012        | IP 71124.06  | Radioactive Gaseous and Liquid Effluent Treatment  |                      |
|             |                     |                   | <b>71124 - OCC RDA SAFETY</b>                          |  | <b>1</b>             |
| 1, 2        | 03/12/2012          | 03/16/2012        | IP 71124.01  | Radiological Hazard Assessment and Exposure Controls   |                      |
| 1, 2        | 03/12/2012          | 03/16/2012        | IP 71124.02  | Occupational ALARA Planning and Controls   |                      |
| 1, 2        | 03/12/2012          | 03/16/2012        | IP 71124.05  | Radiation Monitoring Instrumentation   |                      |
|             |                     |                   | <b>EP EX - EP EXERCISE EVALUATION</b>                  |  | <b>5</b>             |
| 1, 2        | 05/21/2012          | 05/25/2012        | IP 7111401   | Exercise Evaluation  |                      |

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

## Salem

## Inspection / Activity Plan

07/01/2011 - 12/31/2012

| Unit Number | Planned Dates |            | Inspection Activity                       | Title   | No. of Staff on Site |
|-------------|---------------|------------|---|---|----------------------|
| Start       | End           |            |   |   |                      |
|             |               |            | <b>EP EX - EP EXERCISE EVALUATION</b>     |   | <b>5</b>             |
| 1, 2        | 05/21/2012    | 05/25/2012 | IP 7111404                                | Emergency Action Level and Emergency Plan Changes                               |                      |
|             |               |            | <b>71124 - OCC RAD SAFETY</b>             |   | <b>1</b>             |
| 1, 2        | 06/11/2012    | 06/15/2012 | IP 71124.02                               | Occupational ALARA Planning and Controls  |                      |
| 1, 2        | 06/11/2012    | 06/15/2012 | IP 71124.03                               | In-Plant Airborne Radioactivity Control and Mitigation                          |                      |
| 1, 2        | 06/11/2012    | 06/15/2012 | IP 71124.04                               | Occupational Dose Assessment  |                      |
| 1, 2        | 06/11/2012    | 06/15/2012 | IP 71124.05                               | Radiation Monitoring Instrumentation  |                      |
|             |               |            | <b>11/19EXM - SALEM INITIAL EXAM</b>      |   | <b>3</b>             |
| 1           | 10/22/2012    | 10/26/2012 | U01859                                    | FY13-SALEM INITIAL OPERATOR LICENSING EXAM                                      |                      |
| 1           | 11/19/2012    | 11/23/2012 | U01859                                    | FY13-SALEM INITIAL OPERATOR LICENSING EXAM                                      |                      |
|             |               |            | <b>71124 - RAD SAFETY</b>                 |   | <b>1</b>             |
| 1, 2        | 10/22/2012    | 10/26/2012 | IP 60855.1                                | Operation of an Independent Spent Fuel Storage Installation at Operating Plants |                      |
| 2           | 10/22/2012    | 10/26/2012 | IP 71124.01                               | Radiological Hazard Assessment and Exposure Controls                            |                      |
| 2           | 10/22/2012    | 10/26/2012 | IP 71124.02                               | Occupational ALARA Planning and Controls  |                      |
| 1, 2        | 10/22/2012    | 10/26/2012 | IP 71151-OR01                             | Occupational Exposure Control Effectiveness                                     |                      |
| 1, 2        | 10/22/2012    | 10/26/2012 | IP 71151-PR01                             | RETS/ODCM Radiological Effluent   |                      |
|             |               |            | <b>7111108P - U2 INSERVICE INSPECTION</b> |   | <b>1</b>             |
| 2           | 10/22/2012    | 11/02/2012 | IP 7111108P                               | Inservice Inspection Activities - PWR   |                      |