



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

September 4, 2012

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

**SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -  
SALEM NUCLEAR GENERATING STATION, UNIT NOS. 1 AND 2  
(REPORT 05000272/2012006 and 05000311/2012006)**

Dear Mr. Joyce:

On August 16, 2012, the U. S. Nuclear Regulatory Commission (NRC) completed its mid-cycle performance review of Salem Nuclear Generating Station, Unit Nos. 1 and 2 (Salem). The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2011 through June 30, 2012. 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 assessment reflects the integration of the Security Cornerstone into the ROP performance assessment program governed by IMC 0305, "Operating Reactor Assessment Program."

The NRC determined the performance at Salem during the most recent quarter was within the Degraded Cornerstone column of the NRC's Reactor Oversight Process (ROP) Action Matrix because of one or more greater-than-green Security cornerstone inputs as described in Inspection Report 05000272/2012201, 05000311/2012201 dated December 19, 2011. The significance determination for these findings was finalized on March 20, 2012 (ML120670582)<sup>1</sup>. The 95002 supplemental inspection for these findings was completed the week of August 27, 2012, and the results will be communicated to you via separate correspondence. The objectives of that supplemental inspection were to provide assurance that: (1) the root and contributing causes for the risk-significant issues were understood; (2) the extent of condition and extent of cause of the issues were identified; and (3) corrective actions were or will be sufficient to address and preclude repetition of the root and contributing causes. The inspection also included an independent NRC review of the extent of condition and extent of cause for the issues and an assessment of whether any safety culture component caused or significantly contributed to the greater-than-green Security cornerstone inputs.

The enclosed inspection plan lists the inspections scheduled through December 31, 2013. Routine inspections performed by resident inspectors are not included in the inspection plan. In addition to the baseline inspections, consistent with the Agency's actions related to Fukushima, the NRC will perform TI-187, "Inspection of Near-Term Task Force Recommendation 2.3

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<sup>1</sup> Designation in parenthesis refers to an ADAMS accession number. Documents referenced in this letter are publicly available using the accession number in ADAMS.

Flooding Walkdowns” and TI-188, “Inspection of Near-Term Task Force Recommendation 2.3 Seismic Walkdowns.” 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. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence.

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 the NRC’s Agencywide Document Access and Management 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 Art Burritt at 610-337-5069 with any questions you have regarding this letter.

Sincerely,

**/RA by David C. Lew acting for/**

William M. Dean  
Regional Administrator

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

Enclosure: Salem Inspection/Activity Plan

cc w/encl: Distribution via ListServ

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DOCUMENT NAME: S:\ROP-13 Mid-Cycle Review\Branch 3\Salem\Mid-Cycle Letter SAL.docx  
ADAMS ACCESSION NUMBER: **ML12248A040**

<input checked="" type="checkbox"/> SUNSI Review		<input checked="" type="checkbox"/> Non-Sensitive <input type="checkbox"/> Sensitive		<input checked="" type="checkbox"/> Publicly Available <input type="checkbox"/> Non-Publicly Available	
OFFICE	RI/DRP	RI/DRP	RI/DRP	RI/DRP	RI/ORR
NAME	DSchroeder/LC for	LCline/LC	ABurritt/LC for	DRoberts/DJR	WDean/DCL for
DATE	08/27/12	08/27/12	08/27/12	08/30/12	09/04/12

OFFICIAL RECORD COPY

**Salem**  
**Inspection / Activity Plan**  
**07/01/2012 - 12/31/2013**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>11/19EXM - SALEM INITIAL EXAM</b>		<b>5</b>
1	10/29/2012	11/02/2012	U01859	FY13-SALEM INITIAL OPERATOR LICENSING EXAM	
1	11/26/2012	11/30/2012	U01859	FY13-SALEM INITIAL OPERATOR LICENSING EXAM	
			<b>TI 182 - DEGRADTION OF UNDERGROUND PIPING</b>		<b>1</b>
1,2	07/23/2012	07/27/2012	IP 2515/182	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	
			<b>TI-187 - TI-187 - FLOODING WALKDOWNS</b>		<b>2</b>
1,2	09/01/2012	12/31/2012	IP 2515/187	Inspection of Near-Term Task Force Recommendation 2.3 Flooding Walkdowns	
			<b>TI-188 - TI-188 - SEISMIC WALKDOWNS</b>		<b>2</b>
1,2	09/01/2012	12/31/2012	IP 2515/188	Inspection of Near-Term Task Force Recommendation 2.3 Seismic Walkdowns	
			<b>HP - RADIATION SAFETY INSPECTION</b>		<b>1</b>
1,2	10/01/2012	10/05/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	10/01/2012	10/05/2012	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	10/01/2012	10/05/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	10/01/2012	10/05/2012	IP 71124.04	Occupational Dose Assessment	
1,2	10/01/2012	10/05/2012	IP 71124.05	Radiation Monitoring Instrumentation	
			<b>HP - RADIATION SAFETY INSPECTION</b>		<b>1</b>
1,2	10/22/2012	10/26/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	10/22/2012	10/26/2012	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	10/22/2012	10/26/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	10/22/2012	10/26/2012	IP 71124.04	Occupational Dose Assessment	
1,2	10/22/2012	10/26/2012	IP 71124.05	Radiation Monitoring Instrumentation	
1,2	10/22/2012	10/26/2012	IP 71151-OR01	Occupational Exposure Control Effectiveness	
			<b>711108P - U2 INSERVICE INSPECTION</b>		<b>1</b>
2	10/22/2012	11/02/2012	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>EP PROGR - EP PROGRAM INSPECTION</b>		<b>1</b>
1,2	03/04/2013	03/08/2013	IP 7111402	Alert and Notification System Testing	
1,2	03/04/2013	03/08/2013	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1,2	03/04/2013	03/08/2013	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1,2	03/04/2013	03/08/2013	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
			<b>HP - RADIATION SAFETY INSPECTION</b>		<b>1</b>
1,2	04/08/2013	04/12/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	04/08/2013	04/12/2013	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	04/08/2013	04/12/2013	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	04/08/2013	04/12/2013	IP 71124.04	Occupational Dose Assessment	

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

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			<b>HP - RADIATION SAFETY INSPECTION</b>		<b>1</b>
1, 2	04/08/2013	04/12/2013	IP 71124.05	Radiation Monitoring Instrumentation	
			<b>7111108P - U1 INSERVICE INSPECTION</b>		<b>1</b>
1	04/15/2013	04/26/2013	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>HP - RADIATION SAFETY INSPECTION</b>		<b>1</b>
1, 2	05/13/2013	05/17/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	05/13/2013	05/17/2013	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	05/13/2013	05/17/2013	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	05/13/2013	05/17/2013	IP 71124.04	Occupational Dose Assessment	
1, 2	05/13/2013	05/17/2013	IP 71124.05	Radiation Monitoring Instrumentation	
			<b>HP - RADIATION SAFETY INSPECTION</b>		<b>1</b>
1, 2	06/10/2013	06/14/2013	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	06/10/2013	06/14/2013	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
			<b>7111111B - SALEM REQUAL INSPECTION WITH P/F RESULTS</b>		<b>2</b>
1, 2	08/26/2013	08/30/2013	IP 7111111B	Licensed Operator Requalification Program	
			<b>PI&amp;R - PI&amp;R</b>		<b>4</b>
1, 2	07/15/2013	07/19/2013	IP 71152B	Problem Identification and Resolution	
1, 2	07/29/2013	08/02/2013	IP 71152B	Problem Identification and Resolution	
			<b>HP - RADIATION SAFETY INSPECTION</b>		<b>1</b>
1, 2	08/12/2013	08/16/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	08/12/2013	08/16/2013	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	08/12/2013	08/16/2013	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	08/12/2013	08/16/2013	IP 71124.04	Occupational Dose Assessment	
1, 2	08/12/2013	08/16/2013	IP 71124.05	Radiation Monitoring Instrumentation	
			<b>7111117 - PERMANENT PLANT MODIFICATIONS</b>		<b>3</b>
1, 2	11/04/2013	11/08/2013	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
1, 2	11/18/2013	11/22/2013	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
			<b>7111107T - TRIENNIAL HEAT SINK</b>		<b>1</b>
1, 2	12/02/2013	12/06/2013	IP 7111107T	Heat Sink Performance	
			<b>71124.08 - RADWASTE</b>		<b>1</b>
1, 2	12/02/2013	12/06/2013	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			<b>HP - RADIATION SAFETY INSPECTION</b>		<b>1</b>
1, 2	12/09/2013	12/13/2013	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
1, 2	12/09/2013	12/13/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	

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1, 2	12/09/2013	12/13/2013	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	12/09/2013	12/13/2013	IP 71124.04	Occupational Dose Assessment	
1, 2	12/09/2013	12/13/2013	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	12/09/2013	12/13/2013	IP 71151-OR01	Occupational Exposure Control Effectiveness	

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