



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

March 4, 2013

Mr. Thomas P. Joyce  
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, UNIT NOS. 1 AND 2 (REPORT 05000272/2012001 and  
05000311/2012001)**

Dear Mr. Joyce:

On February 12, 2013, the U.S. Nuclear Regulatory Commission (NRC) completed its end-of-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 January 1, 2012, through December 31, 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.

The NRC determined that overall, Salem operated in a manner that preserved public health and safety and met all cornerstone objectives. Salem was in the Degraded Cornerstone Column of the NRC's Reactor Oversight Process (ROP) Action Matrix until the most recent quarter, due to one or more greater-than-green inspection findings in the Security Cornerstone. The Cornerstone returned to Green in the fourth quarter 2012, as stated in the Assessment Follow-up Letter for Security dated November 15, 2012 (ML12320A546)<sup>1</sup>. The NRC determined the performance at Salem during the most recent quarter was within the Licensee Response Column because all inspection findings had very low (i.e., green) safety significance, all PIs indicated that your performance was within the nominal, expected range (i.e., green), and the IP 95002 supplemental inspection was successfully completed for the greater-than-green security inspection findings on August 31, 2012. Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through June 30, 2014. 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 mid-cycle performance review. In addition to the baseline inspections, the NRC will also perform Temporary Instruction (TI)-182, "Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping." The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The

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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.

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 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 Glenn Dentel at (610)-337-5233 with any questions you have regarding this letter.

Sincerely,

**/RA/**

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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OFFICE	RI/DRP	RI/DRP	RI/DRP	RI/ORA	
NAME <i>mmt</i>	RMontgomery/ RM	GDentel/ GTD	DRoberts/ DJR	WDean/ WMD	
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**Salem**  
**Inspection / Activity Plan**  
**01/01/2013 - 06/30/2014**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
<b>EP PROGR - EP PROGRAM INSPECTION</b>					<b>2</b>
1,2	03/25/2013	03/29/2013	IP 7111402	Alert and Notification System Testing	
1,2	03/25/2013	03/29/2013	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1,2	03/25/2013	03/29/2013	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	
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	09/16/2013	09/20/2013	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	

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

**Salem**  
**Inspection / Activity Plan**  
**01/01/2013 - 06/30/2014**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>7111117 - PERMANENT PLANT MODIFICATIONS</b>		<b>3</b>
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	
1,2	12/09/2013	12/13/2013	IP 71124.02	Occupational ALARA Planning and Controls	
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	
			<b>71124 - RAD SAFETY INSPECTION</b>		<b>1</b>
2	03/03/2014	03/07/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2	03/03/2014	03/07/2014	IP 71124.02	Occupational ALARA Planning and Controls	
2	03/03/2014	03/07/2014	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2	03/03/2014	03/07/2014	IP 71124.04	Occupational Dose Assessment	
1,2	03/03/2014	03/07/2014	IP 71124.05	Radiation Monitoring Instrumentation	
			<b>71124 - RAD SAFETY INSPECTION</b>		<b>1</b>
1,2	04/21/2014	04/25/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	04/21/2014	04/25/2014	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	04/21/2014	04/25/2014	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	04/21/2014	04/25/2014	IP 71124.04	Occupational Dose Assessment	
1,2	04/21/2014	04/25/2014	IP 71124.05	Radiation Monitoring Instrumentation	
			<b>7111108P - U2 INSERVICE INSPECTION</b>		<b>1</b>
2	04/21/2014	05/02/2014	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>71124 - REMP</b>		<b>1</b>
1,2	05/12/2014	05/16/2014	IP 71124.07	Radiological Environmental Monitoring Program	
			<b>EP EXER - EP EXERCISE INSPECTION</b>		<b>1</b>
1,2	05/19/2014	05/23/2014	IP 7111407	Exercise Evaluation - Hostile Action (HA) Event	
			<b>TI-182 - DEGRAD UNDERGROUND PIPING - PHASE 2</b>		<b>1</b>
1,2	06/02/2014	06/06/2014	IP 2515/182	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	

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