



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

March 5, 2012

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 05000272/2011001 and  
05000311/2011001)**

Dear Mr. Joyce:

On February 13, 2012 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, 2011 through December 31, 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 that overall, Salem operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Salem 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 June 30, 2013. 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 inspection, the NRC will 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 NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

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  
Reactor Projects Branch 3  
Division of Reactor Projects

Docket Nos. 50-272; 50-311  
License Nos. DRP-70; DPR-75

Enclosure:  
Inspection Plan

cc: Distribution via ListServ

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 Inspection Plan

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DATE	02/ 27 /12	02/27/12	02/29 /12		

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## Salem

## Inspection / Activity Plan

01/01/2012 - 06/30/2013

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			<b>TRI FIRE - TRIENNIAL FIRE PROTECTION INSPECTION</b>		<b>5</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>HP - RADIATION SAFETY INSPECTION</b>		<b>1</b>
1,2	04/02/2012	04/06/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	04/02/2012	04/06/2012	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	04/02/2012	04/06/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	04/02/2012	04/06/2012	IP 71124.04	Occupational Dose Assessment	
1,2	04/02/2012	04/06/2012	IP 71124.05	Radiation Monitoring Instrumentation	
			<b>EP EX - EP EXERCISE EVALUATION</b>		<b>3</b>
1,2	05/21/2012	05/25/2012	IP 7111401	Exercise Evaluation	
1,2	05/21/2012	05/25/2012	IP 7111404	Emergency Action Level and Emergency Plan Changes	
			<b>HP - RADIATION SAFETY INSPECTION</b>		<b>1</b>
1,2	05/14/2012	05/18/2012	IP 60855	Operation Of An ISFSI	
1,2	05/14/2012	05/18/2012	IP 71124.05	Radiation Monitoring Instrumentation	
1,2	05/14/2012	05/18/2012	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1,2	05/14/2012	05/18/2012	IP 71124.07	Radiological Environmental Monitoring Program	
			<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>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	

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

## Salem

## Inspection / Activity Plan

01/01/2012 - 06/30/2013

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>HP - RADIATION SAFETY INSPECTION</b>		
1,2	10/22/2012	10/26/2012	IP 71151-OR01	Occupational Exposure Control Effectiveness	1
			<b>7111108P - U2 INSERVICE INSPECTION</b>		
2	10/22/2012	11/02/2012	IP 7111108P	Inservice Inspection Activities - PWR	1
			<b>EP PROGR - EP PROGRAM INSPECTION</b>		
1,2	03/04/2013	03/08/2013	IP 7111402	Alert and Notification System Testing	1
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>ISFSI - ISFSI INSPECTIONS</b>		
1,2	03/01/2013	06/30/2013	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	1
			<b>HP - RADIATION SAFETY INSPECTION</b>		
1,2	04/08/2013	04/12/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	1
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>		
1	04/15/2013	04/26/2013	IP 7111108P	Inservice Inspection Activities - PWR	1
			<b>HP - RADIATION SAFETY INSPECTION</b>		
1,2	05/13/2013	05/17/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	1
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>		
1,2	06/10/2013	06/14/2013	IP 71124.05	Radiation Monitoring Instrumentation	1
1,2	06/10/2013	06/14/2013	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	

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