



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

September 1, 2010

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

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN –  
SALEM NUCLEAR GENERATING STATION, UNIT NOS. 1 AND 2

Dear Mr. Joyce:

On August 10, 2010, the NRC staff completed its performance review of Salem Nuclear Generating Station (Salem). Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from July 1, 2009, through June 30, 2010. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility.

This performance review and enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only--Security Information" will include the security cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter at Salem Units 1 and 2 was within the Licensee Response column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through December 31, 2011. In addition to the baseline inspections, we plan to conduct an inspection of your independent spent fuel storage installation. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last nine months of the inspection plan are tentative and may be revised at the end-of-cycle review.

If circumstances arise that cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at 610-337-5069 with any questions you may have regarding this letter or the inspection plan.

T. Joyce

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In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made 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).

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: Salem Nuclear Generating Station Inspection/ Activity Plan

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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: Salem Nuclear Generating Station Inspection/ Activity Plan

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NAME	DSchroeder/ LC for		LCline/ LC		ABurritt/ ALB	
DATE	08/ 31/10		08/31/10		08/ /10	

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Salem  
 Inspection / Activity Plan  
 07/01/2010 - 12/31/2011

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			<b>71124 - HP</b>		<b>1</b>
1,2	07/19/2010	07/23/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	07/19/2010	07/23/2010	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	07/19/2010	07/23/2010	IP 71124.04	Occupational Dose Assessment	
			<b>TI-177 - MANAGING GAS ACCUMULATION IN ECCS</b>		<b>3</b>
1,2	08/02/2010	08/06/2010	IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	
			<b>ISFSI - ISFSI - DRY RUN AND INITIAL LOADING</b>		<b>1</b>
1,2	08/09/2010	08/13/2010	IP 60854	Preoperational Testing Of An ISFSI	
1,2	08/09/2010	08/13/2010	IP 60854.1	Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating Plants	
1,2	09/07/2010	09/10/2010	IP 60854	Preoperational Testing Of An ISFSI	
1,2	09/07/2010	09/10/2010	IP 60854.1	Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating Plants	
1,2	09/07/2010	09/10/2010	IP 60855	Operation Of An ISFSI	
1,2	09/07/2010	09/10/2010	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
1,2	09/13/2010	09/17/2010	IP 60854	Preoperational Testing Of An ISFSI	
1,2	09/13/2010	09/17/2010	IP 60854.1	Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating Plants	
1,2	09/13/2010	09/17/2010	IP 60855	Operation Of An ISFSI	
1,2	09/13/2010	09/17/2010	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			<b>09/24EXM - SALEM RETAKE SIMULATOR EXAM</b>		<b>2</b>
1	09/13/2010	09/13/2010	U01835	FY10-SALEM U1/2 RETAKE OPERATOR LICENSING EXAM	
1	09/24/2010	09/24/2010	U01835	FY10-SALEM U1/2 RETAKE OPERATOR LICENSING EXAM	
			<b>71124 - HP &amp; ISFSI</b>		<b>1</b>
1,2	09/27/2010	10/01/2010	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
1,2	09/27/2010	10/01/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	09/27/2010	10/01/2010	IP 71124.05	Radiation Monitoring Instrumentation	
1,2	09/27/2010	10/01/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1,2	09/27/2010	10/01/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	
			<b>7111107T - TRIENNIAL HEAT SINK</b>		<b>1</b>
1,2	12/06/2010	12/10/2010	IP 7111107T	Heat Sink Performance	
			<b>71124 - HP INSPECTION</b>		<b>1</b>
1,2	01/03/2011	01/07/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	01/03/2011	01/07/2011	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	01/03/2011	01/07/2011	IP 71124.04	Occupational Dose Assessment	
			<b>7111121 - CDBI</b>		<b>7</b>
1,2	01/24/2011	01/28/2011	IP 7111121	Component Design Bases Inspection	
1,2	02/07/2011	02/11/2011	IP 7111121	Component Design Bases Inspection	

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

## Salem

## Inspection / Activity Plan

07/01/2010 - 12/31/2011

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
		<b>711121 - CDBI</b>		7
1,2	02/14/2011 02/18/2011	IP 711121	Component Design Bases Inspection	
		<b>EP PROGR - EP PROGRAM INSPECTION</b>		1
1,2	03/14/2011 03/18/2011	IP 7111402	Alert and Notification System Testing	
1,2	03/14/2011 03/18/2011	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1,2	03/14/2011 03/18/2011	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1,2	03/14/2011 03/18/2011	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1,2	03/14/2011 03/18/2011	IP 71151-EP01	Drill/Exercise Performance	
1,2	03/14/2011 03/18/2011	IP 71151-EP02	ERO Drill Participation	
1,2	03/14/2011 03/18/2011	IP 71151-EP03	Alert & Notification System	
		<b>2515/172 - TI 2515/172 RCS DM WELDS</b>		1
2	04/11/2011 04/22/2011	IP 2515/172	Reactor Coolant System Dissimilar Metal Butt Welds	
		<b>711108P - U2 INSERVICE INSPECTION</b>		1
2	04/11/2011 04/22/2011	IP 711108P	Inservice Inspection Activities - PWR	
		<b>0912EXM - OPERATOR LICENSING INITIAL EXAMS</b>		5
1	08/15/2011 08/19/2011	U01830	FY11- SALEM, INITIAL OL EXAM	
1	09/12/2011 09/16/2011	U01830	FY11- SALEM, INITIAL OL EXAM	
		<b>71124 - HP</b>		1
2	04/18/2011 04/22/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2	04/18/2011 04/22/2011	IP 71124.02	Occupational ALARA Planning and Controls	
2	04/18/2011 04/22/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
		<b>71152 - PI&amp;R</b>		4
1,2	06/27/2011 07/01/2011	IP 71152B	Identification and Resolution of Problems	
1,2	07/11/2011 07/15/2011	IP 71152B	Identification and Resolution of Problems	
		<b>711111B - SALEM REQUAL INSP W/ P/F RESULTS</b>		3
1,2	09/18/2011 09/22/2011	IP 711111B	Licensed Operator Requalification Program	
		<b>71124 - REMP</b>		1
1,2	07/25/2011 07/29/2011	IP 71124.07	Radiological Environmental Monitoring Program	
		<b>71124 - HP</b>		1
1,2	10/17/2011 10/21/2011	IP 2515/179	Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS	
1,2	10/17/2011 10/21/2011	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
1	10/17/2011 10/21/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	10/17/2011 10/21/2011	IP 71124.02	Occupational ALARA Planning and Controls	
1	10/17/2011 10/21/2011	IP 71124.05	Radiation Monitoring Instrumentation	

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Salem  
Inspection / Activity Plan  
07/01/2010 - 12/31/2011

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			<b>2515/172</b>	<b>- TI 2515/172 RCS DM WELDS</b>	<b>1</b>
1	10/17/2011	10/28/2011	IP 2515/172	Reactor Coolant System Dissimilar Metal Butt Welds	
			<b>7111108P</b>	<b>- U1 INSERVICE INSPECTION</b>	<b>1</b>
1	10/17/2011	10/28/2011	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>71124</b>	<b>- RADWASTE</b>	<b>1</b>
1,2	12/05/2011	12/09/2011	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	

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