



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION II  
245 PEACHTREE CENTER AVENUE NE, SUITE 1200  
ATLANTA, GEORGIA 30303-1257

September 1, 2010

Mr. Mano Nazar  
Executive Vice President  
Nuclear and Chief Nuclear Officer  
Florida Power and Light Company  
P.O. Box 14000  
Juno Beach, FL 33408-0420

**SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN – ST. LUCIE  
NUCLEAR PLANT**

Dear Mr. Nazar:

On August 11, 2010, the NRC staff completed its performance review of the St. Lucie Nuclear Plant. 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 St. Lucie Unit 1 for the most recent quarter was within the Degraded Cornerstone Column of the NRC's Action Matrix, based on one Yellow Mitigating Systems finding issued in the fourth quarter of 2009. Your staff has informed us of your readiness for the NRC to conduct a supplemental inspection to assess your evaluation of the causes of and implementation of corrective actions for this finding. Therefore, we plan to conduct a supplemental inspection using Inspection Procedure 95002, Inspection For One Degraded Cornerstone Or Any Three White Inputs In a Strategic Performance Area, beginning September 27, 2010.

Plant performance for St. Lucie Unit 2 for the assessment period was within the Licensee Response Column of the NRC's Action 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).

In addition, the staff identified a cross cutting theme, in that 4 Green inspection findings were documented during the current 12 month assessment period with cross-cutting aspects in the area of Human Performance. The common aspect associated with these findings was adequate documentation and procedures (H.2(c)). All of the findings were of very low safety significance. In order to determine whether a substantive cross-cutting issue should be identified, the NRC evaluated Florida Power and Light's (FPL) actions to recognize and

investigate the causes of the cross-cutting theme, and to plan and implement corrective actions to minimize additional findings with a similar aspect. The NRC determined FPL's actions were timely in identifying the causes of these findings, and that planned corrective actions would adequately address the identified causes. Therefore the NRC determined that a substantive cross-cutting issue should not be identified.

The enclosed inspection plan details the inspections, less those related to security, scheduled through December 30, 2011. 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. We also plan on conducting several infrequently performed inspections, which include: Inspection Procedure (IP) 60855.1, "Operation of an Independent Spent Fuel Storage Installation at Operating Plants;" Initial Reactor Operator license examinations; Temporary Instruction (TI) 2515/172, "Reactor Coolant System Dissimilar Metal Butt Welds;" TI-2515/177, "Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray Systems;" and TI-2515/179, "Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in the National Source Tracking System (NSTS)."

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).

If circumstances arise which cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact Dan Rich at (404) 997-4721 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA/**

Luis A. Reyes  
Regional Administrator

Docket Nos.: 50-335, 50-389 and 72-061  
License Nos.: DPR-67, NPF-16

Enclosure: St. Lucie Nuclear Plant Inspection/Activity Plan (09/01/10 - 12/31/11)

cc w/encl:

Richard L. Anderson  
Site Vice President  
St. Lucie Nuclear Plant  
Electronic Mail Distribution

Robert J. Hughes  
Plant General Manager  
St. Lucie Nuclear Plant  
Electronic Mail Distribution

Gene St. Pierre  
Vice President, Fleet Support  
Florida Power & Light Company  
Electronic Mail Distribution

Ronnie Lingle, Operations Manager  
St. Lucie Nuclear Plant  
Electronic Mail Distribution

Eric Katzman, Licensing Manager  
St. Lucie Nuclear Plant  
Electronic Mail Distribution

Larry Nicholson, Director  
Licensing  
Florida Power & Light Company  
Electronic Mail Distribution

Alison Brown, Nuclear Licensing  
Florida Power & Light Company  
Electronic Mail Distribution

Mitch S. Ross  
Vice President and Associate General  
Counsel  
Florida Power & Light Company  
Electronic Mail Distribution

Marjan Mashhadi, Senior Attorney  
Florida Power & Light Company  
Electronic Mail Distribution

William A. Passetti, Chief  
Florida Bureau of Radiation Control  
Department of Health  
Electronic Mail Distribution

Ruben D. Almaguer, Director  
Division of Emergency Preparedness  
Department of Community Affairs  
Electronic Mail Distribution

J. Kammel  
Radiological Emergency Planning  
Administrator  
Department of Public Safety  
Electronic Mail Distribution

Mano Nazar  
Executive Vice President and Chief Nuclear  
Officer  
Florida Power & Light Company  
P. O. Box 14000  
Juno Beach, FL 33408

Senior Resident Inspector  
St. Lucie Nuclear Plant  
U.S. Nuclear Regulatory Commission  
P.O. Box 6090  
Jensen Beach, FL 34957-2010

Seth B. Duston, Training Manager  
St. Lucie Nuclear Plant  
Electronic Mail Distribution

Faye Outlaw, County Administrator  
St. Lucie County  
Electronic Mail Distribution

Jack Southard, Director  
Public Safety Department  
St. Lucie County  
Electronic Mail Distribution

**Saint Lucie**  
**Inspection / Activity Plan**  
**09/01/2010 - 12/31/2011**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>ISFSI - ROUTINE LOADING OF 11 CASKS (BOTH UNITS)</b>		<b>2</b>
1,2	07/11/2010	09/30/2010	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			<b>PSB1-RP - RP PUBLIC RADIATION PROTECTION</b>		<b>3</b>
1,2	08/30/2010	09/03/2010	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1,2	08/30/2010	09/03/2010	IP 71124.07	Radiological Environmental Monitoring Program	
1,2	08/30/2010	09/03/2010	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1,2	08/30/2010	09/03/2010	IP 71151	Performance Indicator Verification	
			<b>DRP/BR3 - 95002 SUPPLEMENTAL INSPECTION</b>		<b>4</b>
1	09/27/2010	10/01/2010	IP 95002	Inspection For One Degraded Cornerstone Or Any Three White Inputs In A Strategic Performance Area	
			<b>TI-177 - GASEOUS INTRUSION</b>		<b>3</b>
1,2	10/25/2010	10/29/2010	IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	
			<b>EB3ISI - UNIT 2 INSERVICE INSPECTION</b>		<b>1</b>
2	01/10/2011	01/14/2011	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>PSB1-RP - RP OCCUPATIONAL WEEK 1</b>		<b>3</b>
1,2	01/10/2011	01/14/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	01/10/2011	01/14/2011	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	01/10/2011	01/14/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	01/10/2011	01/14/2011	IP 71124.04	Occupational Dose Assessment	
1,2	01/10/2011	01/14/2011	IP 71124.05	Radiation Monitoring Instrumentation	
1,2	01/10/2011	01/14/2011	IP 71151	Performance Indicator Verification	
			<b>PSB1-TI - TI-179 NSTS VERIFICATION</b>		<b>2</b>
1,2	01/10/2011	01/14/2011	IP 2515/179	Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS	
1,2	02/07/2011	02/11/2011	IP 2515/179	Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS	
			<b>EB3SGISI - UNIT 2 SG INSERVICE INSPECTION</b>		<b>1</b>
2	01/17/2011	01/21/2011	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>OL EXAM - INITIAL PREP WEEK 1</b>		<b>6</b>
1	01/24/2011	01/28/2011	V23334	ST LUCIE/FEBRUARY 2011 EXAM AT POWER FACILITIES	
			<b>OL EXAM - INITIAL PREP WEEK 2</b>		<b>3</b>
1	01/31/2011	02/04/2011	V23334	ST LUCIE/FEBRUARY 2011 EXAM AT POWER FACILITIES	
			<b>PSB1-RP - RP OCCUPATIONAL WEEK 2</b>		<b>3</b>
1,2	02/07/2011	02/11/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	02/07/2011	02/11/2011	IP 71124.04	Occupational Dose Assessment	
1,2	02/07/2011	02/11/2011	IP 71124.05	Radiation Monitoring Instrumentation	
1,2	02/07/2011	02/11/2011	IP 71151	Performance Indicator Verification	

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

Enclosure

**Saint Lucie**  
**Inspection / Activity Plan**  
**09/01/2010 - 12/31/2011**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
<b>PSB1EP - EMERGENCY PREPAREDNESS INSPECTION</b>					<b>1</b>
1,2	02/14/2011	02/18/2011	IP 7111402	Alert and Notification System Testing	
1,2	02/14/2011	02/18/2011	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1,2	02/14/2011	02/18/2011	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1,2	02/14/2011	02/18/2011	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1,2	02/14/2011	02/18/2011	IP 71151	Performance Indicator Verification	
<b>OL EXAM - INITIAL EXAM WEEK 1</b>					<b>7</b>
1	02/21/2011	02/25/2011	V23334	ST LUCIE/FEBRUARY 2011 EXAM AT POWER FACILITIES	
<b>OL EXAM - INITIAL EXAM WEEK 2</b>					<b>6</b>
1	02/28/2011	03/04/2011	V23334	ST LUCIE/FEBRUARY 2011 EXAM AT POWER FACILITIES	
<b>OL EXAM - INITIAL EXAM WEEK 3</b>					<b>6</b>
1	03/14/2011	03/18/2011	V23334	ST LUCIE/FEBRUARY 2011 EXAM AT POWER FACILITIES	
<b>OL RQ - REQUAL INSPECTION</b>					<b>2</b>
1,2	10/24/2011	10/28/2011	IP 7111111B	Licensed Operator Requalification Program	

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Enclosure