



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
SAM NUNN ATLANTA FEDERAL CENTER  
61 FORSYTH STREET SW SUITE 23T85  
ATLANTA, GEORGIA 30303-8931**

August 30, 2004

Florida Power and Light Company  
ATTN: Mr. J. A. Stall, Senior Vice President  
Nuclear and Chief Nuclear Officer  
P. O. Box 14000  
Juno Beach, FL 33408-0420

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

Dear Mr. Stall:

On August 3, 2004, the NRC staff completed its mid-cycle plant performance assessment of the St. Lucie Nuclear Plant. The mid-cycle review for St. Lucie involved the participation of all technical divisions in evaluating performance for the first half of the calendar year 2004 assessment cycle. The process included a review of performance indicators (PIs) for the most recent quarter and inspection results over the previous twelve months. 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 will allow you an opportunity to prepare for these inspections and to inform us of any planned inspections that may conflict with your plant activities. This performance review and the enclosed inspection plan do not include physical protection information. A separate mid-cycle performance review letter, designated and marked as "Proprietary Information in accordance with 10 CFR 2.390(d)(1)", will include the physical protection review and a resultant inspection plan.

Plant performance for the most recent quarter 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 only baseline inspections at your facility through March 31, 2006. However, we also plan on conducting several inspections which are not part of the routine baseline inspection program regarding the reactor pressure vessel head and vessel head penetration nozzles, reactor head replacement activities and your response to NRC Bulletin 2004-01: Inspection of Alloy 82/182/600 Materials Used in the Fabrication of Pressurizer Penetrations and Steam Space Piping Connections at Pressurized-Water Reactors.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through March 31, 2006. The inspection plan is provided to minimize the resource impact on your staff and to allow for scheduling conflicts and personnel availability to be resolved in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last twelve months of the inspection plan are tentative and may be revised at the end-of-cycle review meeting.

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 me at (404) 562-4560 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA/**

Joel T. Munday, Chief  
Reactor Projects Branch 3  
Division of Reactor Projects

Docket No(s). 50-335, 50-389  
License No(s). DPR-67, NPF-16

Enclosure: St. Lucie Inspection/Activity Plan

cc w/encl:  
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**Saint Lucie**  
**Inspection / Activity Plan**  
**09/01/2004 - 03/31/2006**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	<b>2515/153 - TI 2515/153 RPV CONTAINMT SUMP BLOCKAGE</b>		<b>1</b>			
1, 2	IP 2515/153	Reactor Containment Sump Blockage (NRC Bulletin 2003-01)		03/01/2004	12/22/2004	Safety Issues
	<b>EB2-ISI - INSERVICE INSPECTION-U2</b>		<b>1</b>			
2	IP 7111108P	Inservice Inspection Activities - PWR		12/06/2004	12/10/2004	Baseline Inspections
	<b>EB2SGISI - STEAM GENERATOR INSERVICE INSPECTION-U2</b>		<b>2</b>			
2	IP 7111108P	Inservice Inspection Activities - PWR		12/13/2004	12/16/2004	Baseline Inspections
	<b>EB2-RPV - TI2515/150 RPV HEAD &amp; PENETRATION NOZZLE</b>		<b>2</b>			
2	IP 2515/150	Reactor Pressure Vessel Head and Vessel Head Penetration Nozzles (NRC Bulletin 2002-0		12/13/2004	12/17/2004	Safety Issues
	<b>EB2-HS - HEAT SINK</b>		<b>1</b>			
1, 2	IP 7111107B	Heat Sink Performance		01/03/2005	01/07/2005	Baseline Inspections
	<b>OL EP - EP INSPECTION</b>		<b>1</b>			
1, 2	IP 7111402	Alert and Notification System Testing		01/24/2005	01/28/2005	Baseline Inspections
1, 2	IP 7111403	Emergency Response Organization Augmentation Testing		01/24/2005	01/28/2005	Baseline Inspections
1, 2	IP 7111404	Emergency Action Level and Emergency Plan Changes		01/24/2005	01/28/2005	Baseline Inspections
1, 2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		01/24/2005	01/28/2005	Baseline Inspections
1, 2	IP 711151	Performance Indicator Verification		01/24/2005	01/28/2005	Baseline Inspections
	<b>EB2-MODS - PERMANENT MODIFICATIONS AND 50.59</b>		<b>4</b>			
1, 2	IP 7111102	Evaluation of Changes, Tests, or Experiments		04/04/2005	04/08/2005	Baseline Inspections
1, 2	IP 7111117B	Permanent Plant Modifications		04/04/2005	04/08/2005	Baseline Inspections
	<b>EB1SSDPC - SSDPC PRE-INSPECTION VISIT</b>		<b>2</b>			
1, 2	IP 7111121	Safety System Design and Performance Capability		05/16/2005	05/20/2005	Baseline Inspections
	<b>EB1SSDPC - SAFETY SYSTEM DESIGN &amp; PERF. CAPABILITY</b>		<b>5</b>			
1, 2	IP 7111121	Safety System Design and Performance Capability		06/06/2005	06/10/2005	Baseline Inspections
1, 2	IP 7111121	Safety System Design and Performance Capability		06/20/2005	06/24/2005	Baseline Inspections
	<b>OL RQ - REQUAL INSPECTION</b>		<b>2</b>			
1, 2	IP 7111111B	Licensed Operator Requalification Program		08/29/2005	09/02/2005	Baseline Inspections
	<b>EB2 HEAD - REACTOR HEAD REPLACEMENT</b>		<b>2</b>			
1	IP 71007	Reactor Vessel Head Replacement Inspection		09/19/2005	09/23/2005	Other Routine
1	IP 71007	Reactor Vessel Head Replacement Inspection		10/03/2005	10/05/2005	Other Routine
	<b>OL PREP - INITIAL EXAM PREP</b>		<b>3</b>			
1	V23220	ST. LUCIE/EXAMS AT POWER FACILITIES		10/03/2005	10/07/2005	Not Applicable
	<b>EB2-ISI - INSERVICE INSPECTION-U1</b>		<b>1</b>			
1	IP 7111108P	Inservice Inspection Activities - PWR		10/10/2005	10/14/2005	Baseline Inspections
	<b>PS-RP - RP OCCUPATIONAL BASELINE &amp; RX HEAD WK-1</b>		<b>3</b>			
1, 2	IP 71007	Reactor Vessel Head Replacement Inspection		10/17/2005	10/21/2005	Other Routine

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**  
**09/01/2004 - 03/31/2006**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	<b>PS-RP</b>	<b>- RP OCCUPATIONAL BASELINE &amp; RX HEAD WK-1</b>	<b>3</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		10/17/2005	10/21/2005	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		10/17/2005	10/21/2005	Baseline Inspections
1,2	IP 7112202	Radioactive Material Processing and Transportation		10/17/2005	10/21/2005	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		10/17/2005	10/21/2005	Baseline Inspections
	<b>EB2SGISI</b>	<b>- STEAM GENERATOR ISI</b>	<b>1</b>			
1	IP 7111108P	Inservice Inspection Activities - PWR		10/24/2005	10/28/2005	Baseline Inspections
	<b>OL EXAM</b>	<b>- INITIAL EXAM</b>	<b>3</b>			
1	V23220	ST. LUCIE/EXAMS AT POWER FACILITIES		10/31/2005	11/10/2005	Not Applicable
	<b>PS-RP</b>	<b>- RP OCCUPATIONAL BASELINE &amp; RX HEAD WK-2</b>	<b>2</b>			
1,2	IP 71007	Reactor Vessel Head Replacement Inspection		11/14/2005	11/18/2005	Other Routine
1,2	IP 7112101	Access Control to Radiologically Significant Areas		11/14/2005	11/18/2005	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		11/14/2005	11/18/2005	Baseline Inspections
1,2	IP 7112202	Radioactive Material Processing and Transportation		11/14/2005	11/18/2005	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		11/14/2005	11/18/2005	Baseline Inspections
	<b>OL EP</b>	<b>- EMERGENCY EXERCISE</b>	<b>2</b>			
1,2	IP 7111401	Exercise Evaluation		02/13/2006	02/17/2006	Baseline Inspections
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		02/13/2006	02/17/2006	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		02/13/2006	02/17/2006	Baseline Inspections