



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION II  
SAM NUNN ATLANTA FEDERAL CENTER  
61 FORSYTH STREET, SW, SUITE 23T85  
ATLANTA, GEORGIA 30303-8931

August 31, 2007

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 14, 2007, the NRC staff completed its performance review of the St. Lucie Nuclear Plant for the first half of the calendar year 2007 assessment cycle. Our technical staff reviewed 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 performance review and the enclosed inspection plan do not include physical protection information. A separate letter designated and marked as "Exempt from Public Disclosure in Accordance with 10 CFR 2.390" will include the physical protection review and a resultant inspection plan.

Overall, St. Lucie operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for St. Lucie Units 1 and 2 for the most recent quarter was in 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 March 31, 2009. Please note that we will be also conducting inspections related to the Independent Spent Fuel Storage Installation that is planned for your site and we will coordinate with you the dates of the inspection. In addition to the ROP baseline inspections, we plan to conduct non-baseline inspections involving Unit 2 containment sump blockage, Unit 2 reactor head replacement and Unit 2 steam generator replacement. The inspection plan is provided to minimize the resource impact on your staff and 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 twelve months of the inspection plan are tentative and may be revised at the end-of-cycle review.

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

Package ML072430401  
Letter ML072430414  
Report ML072430436

system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

The NRC is currently evaluating the scope and frequency of all baseline inspection procedures. If the results of the evaluation, or any other circumstances, cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at (404) 562-4505 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

***/RA/***

Steven J. Vias, Chief  
Reactor Projects Branch 3  
Division of Reactor Projects

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

Enclosure: St. Lucie Inspection/Activity Plan

cc w/encl: (See page 3)

cc w/encl:

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**Saint Lucie**  
**Inspection / Activity Plan**  
**09/01/2007 - 03/31/2009**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>EB1-CDBI</b>	<b>- COMPONENT DESIGN BASES INSPECTION</b>	<b>8</b>			
1,2	IP 7111121	Component Design Bases Inspection		09/10/2007	09/14/2007	Baseline Inspections
1,2	IP 7111121	Component Design Bases Inspection		09/24/2007	09/28/2007	Baseline Inspections
	<b>PSB1-RP</b>	<b>- RP OCCUPATIONAL PRE-INSP VISIT</b>	<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		09/04/2007	09/06/2007	Baseline Inspections
	<b>EB3SGR</b>	<b>- SG REPLACEMENT WEEK 1</b>	<b>2</b>			
2	IP 50001	Steam Generator Replacement Inspection		10/01/2007	10/05/2007	Other Routine
	<b>EB3-ISI</b>	<b>- U2 INSERVICE INSPECTION</b>	<b>2</b>			
2	IP 7111108P	Inservice Inspection Activities - PWR		10/09/2007	10/12/2007	Baseline Inspections
	<b>EB3HEAD</b>	<b>- REACTOR HEAD REPLACEMENT</b>	<b>3</b>			
2	IP 71007	Reactor Vessel Head Replacement Inspection		10/15/2007	10/19/2007	Other Routine
	<b>EB3SGR</b>	<b>- SG REPLACEMENT WEEK 2</b>	<b>1</b>			
2	IP 50001	Steam Generator Replacement Inspection		10/15/2007	10/19/2007	Other Routine
	<b>PSB1-RP</b>	<b>- RP OCCUPATIONAL BASELINE INSP WK1</b>	<b>3</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		10/22/2007	10/26/2007	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		10/22/2007	10/26/2007	Baseline Inspections
1,2	IP 7112202	Radioactive Material Processing and Transportation		10/22/2007	10/26/2007	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		10/22/2007	10/26/2007	Baseline Inspections
	<b>EB3SGR</b>	<b>- SG REPLACEMENT WEEK 3</b>	<b>2</b>			
2	IP 50001	Steam Generator Replacement Inspection		10/24/2007	10/28/2007	Other Routine
	<b>EB3SGR</b>	<b>- SG REPLACEMENT WEEK 4</b>	<b>4</b>			
2	IP 50001	Steam Generator Replacement Inspection		11/05/2007	11/09/2007	Other Routine
	<b>PSB1-RP</b>	<b>- RP OCCUPATIONAL BASELINE INSP WK2</b>	<b>3</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		11/13/2007	11/16/2007	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		11/13/2007	11/16/2007	Baseline Inspections
1,2	IP 7112202	Radioactive Material Processing and Transportation		11/13/2007	11/16/2007	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		11/13/2007	11/16/2007	Baseline Inspections
	<b>EB3SGR</b>	<b>- SG REPLACEMENT WEEK 5</b>	<b>2</b>			
2	IP 50001	Steam Generator Replacement Inspection		11/26/2007	11/30/2007	Other Routine
	<b>EB1-SUMP</b>	<b>- PWR CONTAINMENT SUMP BLOCKAGE TI (U-2)</b>	<b>1</b>			
2	IP 2515/166	Pressurized Water Reactor Containment Sump Blockage [NRC GENERIC LETTER 2004-02]		12/17/2007	12/21/2007	Safety Issues
	<b>PSB1-EP</b>	<b>- EP EXERCISE</b>	<b>3</b>			
1,2	IP 7111401	Exercise Evaluation		02/18/2008	02/22/2008	Baseline Inspections
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		02/18/2008	02/22/2008	Baseline Inspections
1,2	IP 71151-EP01	Drill/Exercise Performance		02/18/2008	02/22/2008	Baseline Inspections

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**  
**09/01/2007 - 03/31/2009**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>PSB1-EP - EP EXERCISE</b>		<b>3</b>			
1,2	IP 71151-EP02	ERO Drill Participation		02/18/2008	02/22/2008	Baseline Inspections
1,2	IP 71151-EP03	Alert & Notification System		02/18/2008	02/22/2008	Baseline Inspections
	<b>PI&amp;R - PREP TRIP-PROBLEM ID AND RESOL</b>		<b>1</b>			
1,2	IP 71152B	Identification and Resolution of Problems		05/26/2008	05/30/2008	Baseline Inspections
	<b>OL EXAM - INITIAL EXAM PREP</b>		<b>3</b>			
1	V23284	ST LUCIE/JULY 2008 EXAM AT POWER FACILITIES		06/30/2008	07/03/2008	Not Applicable
	<b>PI&amp;R - PROBLEM IDENTIFICATION AND RESOLUTION</b>		<b>4</b>			
1,2	IP 71152B	Identification and Resolution of Problems		07/07/2008	07/11/2008	Baseline Inspections
1,2	IP 71152B	Identification and Resolution of Problems		07/21/2008	07/25/2008	Baseline Inspections
	<b>OL EXAM - INITIAL EXAM</b>		<b>3</b>			
1	V23284	ST LUCIE/JULY 2008 EXAM AT POWER FACILITIES		07/21/2008	08/01/2008	Not Applicable
	<b>PSB1-RP - RADIATION PROTECTION PREINSPECTION VISIT</b>		<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		08/11/2008	08/13/2008	Baseline Inspections
	<b>PSB1-RP - RADIATION PROTECTION PUBLIC BASELINE</b>		<b>4</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		09/08/2008	09/12/2008	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		09/08/2008	09/12/2008	Baseline Inspections
1,2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		09/08/2008	09/12/2008	Baseline Inspections
1,2	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P		09/08/2008	09/12/2008	Baseline Inspections
1,2	IP 71151-OR01	Occupational Exposure Control Effectiveness		09/08/2008	09/12/2008	Baseline Inspections
1,2	IP 71151-PR01	RETS/ODCM Radiological Effluent		09/08/2008	09/12/2008	Baseline Inspections
	<b>STL -TFP - TFPI INFO TRIP</b>		<b>6</b>			
1,2	IP 7111105P	Fire Protection-NFPA 805 Transition Period [Triennial]		01/13/2009	01/15/2009	Baseline Inspections
	<b>STL TFPI - TFPI ONSITE INSP</b>		<b>5</b>			
1,2	IP 7111105P	Fire Protection-NFPA 805 Transition Period [Triennial]		01/26/2009	01/30/2009	Baseline Inspections
1,2	IP 7111105P	Fire Protection-NFPA 805 Transition Period [Triennial]		02/09/2009	02/13/2009	Baseline Inspections
	<b>PSB1-EP - EP INSP</b>		<b>1</b>			
1,2	IP 7111402	Alert and Notification System Testing		02/09/2009	02/13/2009	Baseline Inspections
1,2	IP 7111403	Emergency Response Organization Augmentation Testing		02/09/2009	02/13/2009	Baseline Inspections
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		02/09/2009	02/13/2009	Baseline Inspections
1,2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		02/09/2009	02/13/2009	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		02/09/2009	02/13/2009	Baseline Inspections
	<b>PSB1-RP - RADIATION PROTECTION PREINSPECTION VISIT</b>		<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		02/23/2009	02/25/2009	Baseline Inspections

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**09/01/2007 - 03/31/2009**

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<b>EB1-MODS - MODIFICATIONS - 10CFR50.59</b>			<b>4</b>			
1,2	IP 7111102	Evaluation of Changes, Tests, or Experiments		03/02/2009	03/06/2009	Baseline Inspections
1,2	IP 711117B	Permanent Plant Modifications		03/02/2009	03/06/2009	Baseline Inspections