



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

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

August 31, 2006

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. Scarola:

On August 2, 2006, the NRC staff completed its performance review of the St. Lucie Nuclear Power Plant for the first half of the calendar year 2006 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, both St. Lucie Units 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. In addition to the ROP baseline inspections, we plan to conduct non-baseline inspections involving containment sump blockage, verification of Mitigating Systems Performance Index, and Independent Spent Fuel Storage Installation.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through March 31, 2008. 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 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 Nos.: 50-335, 50-389, 72-61

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**  
**09/01/2006 - 03/31/2008**

| Unit Number | Inspection Activity                                      | Title   | No. of Staff on Site | Planned Dates Start | Planned Dates End | Inspection Type      |
|-------------|--|---|----------------------|---------------------|-------------------|----------------------|
|             | <b>2515/169 - TI 2515/169 - MSPI VERIFICATION</b>        |   | <b>1</b>             |                     |                   |                      |
| 1,2         | IP 2515/169  | Mitigating Systems Performance Index Verification                                       |                      | 08/01/2006          | 12/31/2006        | Safety Issues        |
|             | <b>EB2-TFP - TRIENNIAL FP PRE-INSPECTION VISIT</b>       |   | <b>5</b>             |                     |                   |                      |
| 1,2         | IP 7111105T  | Fire Protection [Triennial]   |                      | 09/05/2006          | 09/07/2006        | Baseline Inspections |
|             | <b>EB2-TFP - TRIENNIAL FIRE PROTECTION INSPECTION</b>    |   | <b>4</b>             |                     |                   |                      |
| 1,2         | IP 7111105T  | Fire Protection [Triennial]   |                      | 10/02/2006          | 10/06/2006        | Baseline Inspections |
| 1,2         | IP 7111105T  | Fire Protection [Triennial]   |                      | 10/16/2006          | 10/20/2006        | Baseline Inspections |
|             | <b>PSB1-RP - RP PUBLIC PRE-INSP VISIT</b>                |   | <b>1</b>             |                     |                   |                      |
| 1,2         | IP 7112101   | Access Control to Radiologically Significant Areas                                      |                      | 10/09/2006          | 10/11/2006        | Baseline Inspections |
|             | <b>PSB1-RP - RP PUBLIC BASELINE INSP</b>                 |   | <b>4</b>             |                     |                   |                      |
| 1,2         | IP 7112101   | Access Control to Radiologically Significant Areas                                      |                      | 10/30/2006          | 11/03/2006        | Baseline Inspections |
| 1,2         | IP 7112103   | Radiation Monitoring Instrumentation and Protective Equipment                           |                      | 10/30/2006          | 11/03/2006        | Baseline Inspections |
| 1,2         | IP 7112201   | Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems                |                      | 10/30/2006          | 11/03/2006        | Baseline Inspections |
| 1,2         | IP 7112203   | Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P |                      | 10/30/2006          | 11/03/2006        | Baseline Inspections |
| 1,2         | IP 71151   | Performance Indicator Verification  |                      | 10/30/2006          | 11/03/2006        | Baseline Inspections |
|             | <b>EB3-HS - HEAT SINK</b>                                |   | <b>2</b>             |                     |                   |                      |
| 1,2         | IP 7111107B  | Heat Sink Performance   |                      | 01/08/2007          | 01/12/2007        | Baseline Inspections |
|             | <b>PS2-EP - EP INSP</b>                                  |   | <b>1</b>             |                     |                   |                      |
| 1,2         | IP 7111402   | Alert and Notification System Testing   |                      | 02/05/2007          | 02/09/2007        | Baseline Inspections |
| 1,2         | IP 7111403   | Emergency Response Organization Augmentation Testing                                    |                      | 02/05/2007          | 02/09/2007        | Baseline Inspections |
| 1,2         | IP 7111404   | Emergency Action Level and Emergency Plan Changes                                       |                      | 02/05/2007          | 02/09/2007        | Baseline Inspections |
| 1,2         | IP 7111405   | Correction of Emergency Preparedness Weaknesses and Deficiencies                        |                      | 02/05/2007          | 02/09/2007        | Baseline Inspections |
| 1,2         | IP 71151   | Performance Indicator Verification  |                      | 02/05/2007          | 02/09/2007        | Baseline Inspections |
|             | <b>EB1-MODS - MODIFICATIONS/10CFR50.59</b>               |   | <b>4</b>             |                     |                   |                      |
| 1,2         | IP 7111102   | Evaluation of Changes, Tests, or Experiments  |                      | 02/26/2007          | 03/02/2007        | Baseline Inspections |
| 1,2         | IP 7111117B  | Permanent Plant Modifications   |                      | 02/26/2007          | 03/02/2007        | Baseline Inspections |
|             | <b>PSB1-RP - RP OCCUPATIONAL BASELINE INSPECTION</b>     |   | <b>1</b>             |                     |                   |                      |
| 1           | IP 7112101   | Access Control to Radiologically Significant Areas                                      |                      | 04/02/2007          | 04/06/2007        | Baseline Inspections |
|             | <b>EB3-ISI - U1 INSERVICE INSPECTION</b>                 |   | <b>1</b>             |                     |                   |                      |
| 1           | IP 7111108P  | Inservice Inspection Activities - PWR   |                      | 04/09/2007          | 04/13/2007        | Baseline Inspections |
|             | <b>EB3SGISI - U1 STEAM GENERATOR ISI</b>                 |   | <b>1</b>             |                     |                   |                      |
| 1           | IP 7111108P  | Inservice Inspection Activities - PWR   |                      | 04/16/2007          | 04/20/2007        | Baseline Inspections |
|             | <b>EB1-SUMP - PWR CONTAINMENT SUMP BLOCKAGE TI (U-1)</b> |   | <b>1</b>             |                     |                   |                      |
| 1           | IP 93812   | Special Inspection  |                      | 04/22/2007          | 04/27/2007        | Event Response Insp  |

**Saint Lucie**  
**Inspection / Activity Plan**  
**09/01/2006 - 03/31/2008**

| Unit Number | Inspection Activity                                      | Title  | No. of Staff on Site | Planned Dates Start | Planned Dates End | Inspection Type      |
|-------------|--|--|----------------------|---------------------|-------------------|----------------------|
|             | <b>60854 - ISFSI CONSTRUCTION</b>                        |  | <b>1</b>             |                     |                   |                      |
| 1           | IP 60854   | Preoperational Testing Of An ISFSI                 |                      | 07/09/2007          | 07/13/2007        | Other Routine        |
|             | <b>EB1-CDB - COMPONENT DESIGN BASES INSPECTION</b>       |  | <b>6</b>             |                     |                   |                      |
| 1,2         | IP 7111121   | Component Design Bases Inspection                  |                      | 09/17/2007          | 09/21/2007        | Baseline Inspections |
| 1,2         | IP 7111121   | Component Design Bases Inspection                  |                      | 10/01/2007          | 10/05/2007        | Baseline Inspections |
| 1,2         | IP 7111121   | Component Design Bases Inspection                  |                      | 10/15/2007          | 10/19/2007        | Baseline Inspections |
| 1,2         | IP 7111121   | Component Design Bases Inspection                  |                      | 10/29/2007          | 11/02/2007        | Baseline Inspections |
|             | <b>PSB1-RP - RP OCCUPATIONAL PRE-INSP VISIT</b>          |  | <b>1</b>             |                     |                   |                      |
| 1,2         | IP 7112101   | Access Control to Radiologically Significant Areas |                      | 10/09/2007          | 10/11/2007        | Baseline Inspections |
|             | <b>EB3-ISI - U2 INSERVICE INSPECTION</b>                 |  | <b>1</b>             |                     |                   |                      |
| 2           | IP 7111108P  | Inservice Inspection Activities - PWR              |                      | 10/22/2007          | 10/26/2007        | Baseline Inspections |
|             | <b>OL RQ - LICENSED OPERATOR REQUAL INSPECTION</b>       |  | <b>4</b>             |                     |                   |                      |
| 1,2         | IP 7111111B  | Licensed Operator Requalification Program          |                      | 10/22/2007          | 10/26/2007        | Baseline Inspections |
|             | <b>EB3SGRP - STEAM GENERATOR REPLACEMENT</b>             |  | <b>7</b>             |                     |                   |                      |
| 2           | IP 50001   | Steam Generator Replacement Inspection             |                      | 10/29/2007          | 11/02/2007        | Other Routine        |
| 2           | IP 50001   | Steam Generator Replacement Inspection             |                      | 11/26/2007          | 11/30/2007        | Other Routine        |
| 2           | IP 50001   | Steam Generator Replacement Inspection             |                      | 12/17/2007          | 12/21/2007        | Other Routine        |
|             | <b>EB3HEAD - REACTOR HEAD REPLACEMENT</b>                |  | <b>2</b>             |                     |                   |                      |
| 2           | IP 71007   | Reactor Vessel Head Replacement Inspection         |                      | 11/05/2007          | 11/09/2007        | Other Routine        |
|             | <b>PSB1-RP - RP OCCUPATIONAL BASLINE INSP WK 1</b>       |  | <b>2</b>             |                     |                   |                      |
| 1,2         | IP 7112101   | Access Control to Radiologically Significant Areas |                      | 11/05/2007          | 11/09/2007        | Baseline Inspections |
| 1,2         | IP 7112102   | ALARA Planning and Controls                        |                      | 11/05/2007          | 11/09/2007        | Baseline Inspections |
| 1,2         | IP 7112202   | Radioactive Material Processing and Transportation |                      | 11/05/2007          | 11/09/2007        | Baseline Inspections |
| 1,2         | IP 71151   | Performance Indicator Verification                 |                      | 11/05/2007          | 11/09/2007        | Baseline Inspections |
|             | <b>PSB1-RP - RP OCCUPATIONAL BASELINE INSP WK 2</b>      |  | <b>2</b>             |                     |                   |                      |
| 1,2         | IP 7112101   | Access Control to Radiologically Significant Areas |                      | 11/26/2007          | 11/30/2007        | Baseline Inspections |
| 1,2         | IP 7112102   | ALARA Planning and Controls                        |                      | 11/26/2007          | 11/30/2007        | Baseline Inspections |
| 1,2         | IP 7112202   | Radioactive Material Processing and Transportation |                      | 11/26/2007          | 11/30/2007        | Baseline Inspections |
| 1,2         | IP 71151   | Performance Indicator Verification                 |                      | 11/26/2007          | 11/30/2007        | Baseline Inspections |
|             | <b>EB1-SUMP - PWR CONTAINMENT SUMP BLOCKAGE TI (U-2)</b> |  | <b>1</b>             |                     |                   |                      |
| 2           | IP 93812   | Special Inspection                                 |                      | 12/16/2007          | 12/21/2007        | Event Response Insp  |
|             | <b>PS2-EP - EP EXERCISE</b>                              |  | <b>2</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.

Saint Lucie  
Inspection / Activity Plan  
09/01/2006 - 03/31/2008

| Unit Number                 | Inspection Activity | Title                       | No. of Staff on Site | Planned Dates Start | Planned Dates End | Inspection Type      |
|-----------------------------|---------------------|-----------------------------|----------------------|---------------------|-------------------|----------------------|
| <b>PS2-EP - EP EXERCISE</b> |                     |                             | <b>2</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 |

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