



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

July 2, 2012

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

**SUBJECT: ST. LUCIE PLANT - NRC EMERGENCY PREPAREDNESS INSPECTION  
REPORT 05000335/2012502 AND 05000389/2012502**

Dear Mr. Nazar:

On June 15, 2012, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at your St. Lucie Plant, Units 1 and 2. The enclosed inspection report documents the inspection results, which were discussed on June 15, 2012, with Mr. J. Jensen and other members of your staff.

The inspection examined activities conducted under your license as they relate to safety and compliance with the Commission's rules and regulations and with the conditions of your license. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel.

Based on the results of this inspection, no findings of significance were identified.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and your response, if any, will be 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 Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

**/RA/**

Brian Bonser, Chief  
Plant Support Branch 1  
Division of Reactor Safety

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

Enclosure:  
Inspection Report 05000335/2012502  
and 05000389/2012502 w/Att: Supp. Info

cc w/encl.: (See page 2)

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Distribution w/Encl  
See page 3

X PUBLICLY AVAILABLE      ☐ NON-PUBLICLY AVAILABLE      ☐ SENSITIVE      X NON-SENSITIVE  
ADAMS: X Yes      ACCESSION NUMBER: ML12185A213      X SUNSI REVIEW COMPLETE X FORM 665 ATTACHED

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DATE	06/28/2012	06/25/2012	06/28/2012	06/28/2012	06/28/2012	
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cc w/encl:

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Vice President  
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Letter to Mano Nazar from Brian Bonser dated July 2, 2012

SUBJECT: ST. LUCIE PLANT - NRC EMERGENCY PREPAREDNESS INSPECTION  
REPORT 05000335/2012502 AND 05000389/2012502

Distribution w/encl:

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**U.S. NUCLEAR REGULATORY COMMISSION**

**REGION II**

Docket No.: 05000335, 05000389

License No.: DPR-67, NPF-16

Report No.: 05000335/2012502 and 05000389/2012502

Licensee: Florida Power and Light Company

Facility: St. Lucie Plant, Units 1 and 2

Location: Jensen Beach, FL

Dates: June 11, 2012, through June 15, 2012

Inspectors: M. Speck, Senior Emergency Preparedness Inspector  
J. Beavers, Emergency Preparedness Inspector  
R. Sullivan, Senior Emergency Preparedness Specialist  
T. Morrissey, Senior Resident Inspector

Approved by: Brian Bonser, Chief  
Plant Support Branch 1  
Division of Reactor Safety

Enclosure

## SUMMARY OF FINDINGS

IR 05000335/2012502 and 05000389/2012502; 06/11/2012 – 06/15/2012; St. Lucie Plant, Units 1 and 2; Baseline Inspection

The report covered an announced inspection by two emergency preparedness inspectors, one emergency preparedness specialist, and one senior resident inspector. The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process".

A. NRC-Identified and Self-Revealing Findings

None

B. Licensee-Identified Violations.

None

## REPORT DETAILS

### 1. REACTOR SAFETY

Cornerstone: Emergency Preparedness

#### 1EP1 Exercise Evaluation

##### a. Inspection Scope

Prior to the inspection activity, the inspectors conducted an in-office review of the exercise objectives and scenario submitted to the NRC to determine if the exercise would test major elements of the emergency plan as required by 10 CFR 50.47(b)(14). This inspection activity represents one sample on a biennial cycle.

The onsite inspection consisted of the following review and assessment:

The adequacy of the licensee's performance in the biennial exercise conducted on June 13, 2012, was reviewed and assessed regarding the implementation of the Risk Significant Planning Standards (RSPSS) in 10 CFR 50.47 (b)(4), (5), (9), and (10), which address emergency classification, offsite notification, radiological assessment, and protective action recommendations, respectively.

- The overall adequacy of the licensee's emergency response facilities with regard to NUREG-0696, "Functional Criteria for Emergency Response Facilities" and Emergency Plan commitments. The facilities assessed were the Control Room simulator, Technical Support Center (TSC), Operations Support Center (OSC) and Emergency Operations Facility (EOF).
- Other performance areas, such as: the emergency response organization's (ERO) recognition of abnormal plant conditions; command and control; intra- and inter-facility communications; prioritization of mitigation activities; utilization of repair and field monitoring teams; interface with offsite agencies; and the overall implementation of the emergency plan and its implementing procedures.
- Past performance issues from NRC inspection reports and Federal Emergency Management Agency (FEMA) / Department of Homeland Security (DHS) exercise reports to determine the effectiveness of corrective actions as demonstrated during this exercise to ensure compliance with 10 CFR 50.47(b)(14).
- The post-exercise critique process and the presentation to the licensee's senior management conducted on June 14, 2012, to evaluate the licensee's self-assessment of its ERO performance during the exercise and to ensure compliance with 10 CFR 50 Appendix E.IV.F.2.g.

The inspectors reviewed various documents which are listed in the Attachment to this report.

##### b. Findings

No findings were identified.

Enclosure

#### 4. OTHER ACTIVITIES

##### 4OA1 Performance Indicator Verification

###### a. Inspection Scope

###### Cornerstone: Emergency Preparedness

The inspector sampled licensee submittals for the three Performance Indicators (PI) listed below for units one and two. The inspector reviewed the submittals from January 1, 2011, through March 31, 2012. To verify the accuracy of the PI data reported during that period, PI definitions and guidance contained in Nuclear Energy Institute (NEI) 99-02, Regulatory Assessment Indicator Guideline, Revision 6, were used to verify the basis in reporting for each data element.

- Emergency Response Organization Drill/Exercise Performance (DEP)
- Emergency Response Organization Readiness (ERO)
- Alert and Notification System Reliability (ANS)

The inspectors reviewed portions of the raw PI data developed from monthly performance indicator reports and discussed the methods for compiling and reporting the PIs with cognizant emergency preparedness personnel. The inspector also independently screened drill and exercise opportunity evaluations, drill participation reports, and drill evaluations. Selected reported values were calculated to verify their accuracy. The inspectors compared graphical representations from the most recent PI report to the raw data to verify that the data was correctly reflected in the report.

The inspection was conducted in accordance with NRC Inspection Procedure 71151-05, Performance Indicator Verification.

The inspector reviewed various documents which are listed in the Attachment to this report. This inspection satisfied three inspection samples for PI verification on an annual basis.

###### b. Findings

No findings were identified.

##### 4OA6 Meetings, including Exit

On June 15, 2012, the lead inspector presented the inspection results to Mr. J. Jensen, St. Lucie - Vice President, and other members of his staff. The inspector confirmed that proprietary information was not provided during the inspection.

ATTACHMENT: SUPPLEMENTAL INFORMATION



## **SUPPLEMENTAL INFORMATION**

### **KEY POINTS OF CONTACT**

#### **Licensee personnel**

J. Jensen, Vice President - St. Lucie  
D. Calabrese, Emergency Preparedness Manager  
D. Cecchetti, Licensing staff  
T. Horton, Assistant Operations Manager  
B. Hughes, Plant General Manager  
D. Mothena, Corporate Emergency Preparedness Manager  
R. Sandford, Emergency Preparedness staff  
R. Young, Emergency Preparedness staff  
J. Moody, Emergency Preparedness staff  
F. Baker, Emergency Preparedness staff

### **ITEMS OPENED, CLOSED, AND DISCUSSED**

None

### **LIST OF DOCUMENTS REVIEWED**

#### **1EP1 Exercise Evaluation**

##### **Procedures**

Emergency Plan, Rev. 57  
ADM-07.04, Corrective Action Program Requirements, Rev. 8  
EPIP-01, Classification of Emergencies, Rev. 21  
EPIP-02, Duties and Responsibilities of the Emergency Coordinator, Rev. 33  
EPIP-03, Emergency Response Organization Notification/Staff Augmentation, Rev. 19  
EPIP-04, Activation and Operation of the Technical Support Center, Rev. 37  
EPIP-05, Activation and Operation of the Operational Support Center, Rev. 29  
EPIP-06, Activation and Operation of the Emergency Operations Facility, Rev. 30  
EPIP-08, Offsite Notifications and Protective Action Recommendations, Rev. 27  
EPIP-09, Off-site Dose Calculations, Rev. 18  
EPIP-11, Core Damage Assessment, Rev. 4  
EPIP-12, Maintaining Emergency Preparedness - Radiological Emergency Plan Training, Rev. 26  
EPIP-13, Maintaining Emergency Preparedness - Emergency Exercises, Drills, Tests and Evaluations, Rev. 15  
EP-SR-104, FPL Class A Emergency Dose Assessment Program (Technical Basis), Rev. 1  
0-COP-06.06, Guidelines for Collecting Post Accident Samples, Rev. 12  
2-NOP-59.01B, 2B Emergency Diesel Generator Standby Lineup, Rev. 4  
2-NOP-59.02B, 2B Emergency Diesel Generator Operations, Rev. 11  
2-ONP-100.01, Response to Fire, Rev. 24  
2-AOP-08.01, Steam Leak, Rev. 2  
2-AOP-22.01, Rapid Downpower, Rev. 7  
2-EOP-01, Standard Post Trip Actions SPTA, Revision 28  
2-EOP-04, Steam Generator Tube Rupture SGTR, Revision 27  
2-EOP-05, Excess Steam Demand, Revision 21  
2-EOP-15, Functional Recovery, Rev. 36

Records and Data

Control Room, Technical Support Center, Operations Support Center, Joint Information Center – Documentation packages (logs, event notification forms, Protective Action Recommendations, Media releases, and Radiological Dose Assessments)

Condition Reports

1620950 Simulator response different from plant response  
 1669859 ERF information transfer objective not met  
 1752803 DCS modification dose assessment tool not valid  
 1763199 PAR failure  
 1775883 Unanticipated NOUE  
 1775885 Evaluate wording in HU2 basis vs EAL  
 1775897 Simulator clock not synchronized  
 1775887 SFI vs EPIP instructions for accountability  
 1775888 RP dispatched to assembly area after site evacuation announced  
 1775890 Re-entry team returned to OSC at SAE announcement  
 1775891 RP resources depleted – consider reassigning habitability surveys  
 1775893 ERO member engagement  
 1775894 CRI responded as part of fire brigade  
 1775895 RSC sample time – scenario inaccurate  
 1775896 TSC Dosimetry  
 1775898 Bureau of Radiation Control new software  
 1775899 Unexpected PARs at SAE  
 1775900 Radiological triggers for EALs not understood by all ERO  
 1775901 TSC priorities  
 1775902 Chem sample room area rad monitor  
 1775903 Plume Spray Mitigation  
 1775904 Mock ENS Communications  
 1775906 Declaration / Notification packages  
 1775974 SNF Timeliness  
 1775981 EOF Rollup  
 1775686 Lost badge On-Site  
 1775996 PAR Worksheet Improvement  
 1776002 LPM / Core Damage Assessment  
 1775995 OSC Rollup  
 1776064 Simulator Rollup  
 1776124 Fire Brigade Timeliness  
 1776111 TSC Rollup  
 1776147 Wrong Date on Press Release  
 1776150 Dark Website not Updated  
 1776153 EIM Failed to Use Procedure Notebook  
 1776158 FPL Press Kit / Media Material Needs Updating  
 1776220 Chemistry Sampling Post Reactor Trip Lessons Learned  
 1776237 NRC Event Notification Process  
 1776238 ERO Members Left Critique Early  
 1776254 Graded Exercise Scenario Timeline Deficiency  
 1776324 Changing Plant Conditions  
 1776327 Fire Brigade Response to 2A EDG  
 1776379 NRC Observations  
 1776380 EDG Idling Concern

#### 4OA1 Performance Indicator Verification

##### Procedures

ADM-25.02, NRC Performance Indicators, Rev. 26

EPG-01, Emergency Preparedness Assessment and Performance Monitoring, Rev. 11

##### Records and Data

Documentation of DEP opportunities for 2011, and 1<sup>st</sup> quarter 2012

Drill and exercise participation records of ERO personnel for 2010, and 1<sup>st</sup> quarter 2012

Siren test data for 2011, and 1<sup>st</sup> quarter 2012

#### LIST OF ACRONYMS

ANS	Alert and Notification System (ANS) Testing
DEP	Emergency Response Organization Drill/Exercise Performance
DHS	Department of Homeland Security
EOF	Emergency Operations Facility
ERO	Emergency Response Organization
FEMA	Federal Emergency Management Agency
NEI	Nuclear Energy Institute
NRC	Nuclear Regulatory Commission
OSC	Operations Support Center
PI	Performance Indicator
PS	Planning Standard
RSPSs	Risk Significant Planning Standards
TSC	Technical Support Center