



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

March 30, 2010

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 05000335/2010501 AND 05000389/2010501

Dear Mr. Nazar:

On February 26, 2010, 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 February 26, 2010, with Mr. R. Anderson 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 05000335/2010501 and 05000389/2010501
w/Attachment: Supplemental Information

cc w/encl.: (See page 2)

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X PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE X NON-SENSITIVE
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OFFICE	RII:DRS	RII:DRS	RII:DRP				
SIGNATURE	LRM /RA/	JLB /RA/	JSD /RA/				
NAME	LMiller	JBeavers	JDodson				
DATE	03/30/2010	03/30/2010	03/30/2010				
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

cc w/encl:

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Letter to Mano Nazar from Brian Bonser dated March 30, 2010

SUBJECT: ST. LUCIE PLANT - NRC EMERGENCY PREPAREDNESS INSPECTION
REPORT 05000335/2010501 AND 05000389/2010501

Distribution w/encl:

C. Evans, RII

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OE Mail

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U.S. NUCLEAR REGULATORY COMMISSION

REGION II

Docket Nos.: 05000335, 05000389

License Nos.: DPR-67, NPF-16

Report No.: 05000335/2010501 and 05000389/2010501

Licensee: Florida Power and Light Company

Facility: St. Lucie Plant, Units 1 and 2

Location: Jensen Beach, FL

Dates: February 22, 2010 through February 26, 2010

Inspectors: Lee Miller, Senior Emergency Preparedness Inspector
Jim Dodson, Senior Project Engineer
Jim Beavers, Emergency Preparedness Inspector
Cherie Crisden, Emergency Preparedness Inspector

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

Enclosure

SUMMARY OF FINDINGS

IR 05000335/2010501 and 05000389/2010501; 02/22/2010 – 02/26/2010; St. Lucie Plant, Units 1 and 2; Baseline Inspection

The report covered an announced inspection by three emergency preparedness inspectors and one project engineer. 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

No findings of significance were identified.

B. Licensee-Identified Violations.

None

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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 February 24, 2010, 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 February 26, 2010, 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 inspector reviewed various documents which are listed in the Attachment to this report.

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b. Findings

No findings of significance were identified.

1EP4 Emergency Action Level and Emergency Plan Changes

a. Inspection Scope

Since the last NRC inspection of this program area, no change has been implemented to Revision 54 of the St. Lucie Emergency Plan. The inspectors conducted a sampling review of the implementing procedure changes submitted from February 2009 to February 2010 to evaluate potential decreases in effectiveness of the Plan. However, this review was not documented in a Safety Evaluation Report and does not constitute formal NRC approval of the changes. Therefore, these changes remain subject to future NRC inspection in their entirety. The inspection was conducted in accordance with NRC Inspection Procedure 71114, Attachment 04, Emergency Action Level and Emergency Plan Changes. The applicable planning standard (PS), 10 CFR 50.47(b)(4) and its related 10 CFR 50, Appendix E requirements were used as reference criteria.

The inspector reviewed various documents which are listed in the Attachment. This inspection activity satisfied one inspection sample for the EAL and emergency plan changes on an annual basis.

b. Findings

No findings of significance were identified.

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 2009 through December 2009. 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

Enclosure

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, "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 of significance were identified.

40A6 Meetings, including Exit

On February 26, 2010, the lead inspector presented the inspection results to Mr. R. Anderson, 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

R. Anderson, Vice President - St. Lucie
D. Calabrese, Emergency Preparedness Manager
R. Hughes, Plant General Manager
E. Katzman, Licensing Manager
R. Linglo, Operations Manager
D. Mothena, Corporate Emergency Preparedness Manager

LIST OF DOCUMENTS REVIEWED

1EP1 Exercise Evaluation

Procedures

Emergency Plan, Rev. 54
EPIP-01, Classification of Emergencies, Rev. 16
EPIP-02, Duties and Responsibilities of the Emergency Coordinator, Rev. 29
EPIP-03, Emergency Response Organization Notification/Staff Augmentation, Rev. 15
EPIP-04, Activation and Operation of the Technical Support Center, Rev. 25
EPIP-05, Activation and Operation of the Technical Support Center, Rev. 24
EPIP-06, Activation and Operation of the Emergency Operations Facility, Rev. 22
EPIP-08, Offsite Notifications and Protective Action Recommendations, Rev. 23
EPIP-09, Off-site Dose Calculations, Rev. 12
EPIP-12, Maintaining Emergency Preparedness - Radiological Emergency Plan Training, Rev. 22
EPIP-13, Maintaining Emergency Preparedness - Emergency Exercises, Drills, Tests and Evaluations, Rev. 10

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)

1EP4 Emergency Action Level and Emergency Plan Changes

E-Plan Changes

EPIP-01, Classification of Emergencies, Rev. 16
EPIP-05, Activation and Operation of the Technical Support Center, Rev. 24
EPIP-08, Offsite Notifications and Protective Action Recommendations, Rev. 23
EPIP-09, Off-site Dose Calculations, Rev. 12
EPIP-12, Maintaining Emergency Preparedness - Radiological Emergency Plan Training, Rev. 22

4OA1 Performance Indicator VerificationProcedures

ADM-25.02, NRC Performance Indicators, Rev. 23A

EPG-01, Emergency Preparedness Assessment and Performance Monitoring, Rev. 7

Records and Data

St. Lucie Plant Emergency Response Directory, Rev 55

Documentation of DEP opportunities: 1st, 2nd, 3rd, and 4th Quarters 2009Drill and exercise participation records of ERO personnel, 1st, 2nd, 3rd, and 4th Quarters 2009Siren test data 1st, 2nd, 3rd, and 4th Quarters 2009

17 ERO Personnel Qualification and Participation records

LIST OF ACRONYMS

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