



UNITED STATES
NUCLEAR REGULATORY COMMISSION

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

March 9, 2005

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: NOTIFICATION OF ST. LUCIE NUCLEAR PLANT - SAFETY SYSTEM DESIGN
AND PERFORMANCE CAPABILITY INSPECTION - NRC INSPECTION
REPORT 05000335/2005007 AND 05000389/2005007

Dear Mr. Stall:

The purpose of this letter is to notify you that the U.S. Nuclear Regulatory Commission (NRC) Region II staff will conduct a safety system design and performance capability inspection at your St. Lucie Nuclear Plant during the weeks of June 13 and June 20, 2005. A team of six inspectors will perform this inspection. The inspection team will be led by Mr. Larry Mellen, a Senior Reactor Inspector from the NRC Region II Office. This biennial inspection will be conducted in accordance with baseline inspection program Attachment 71111.21, "Safety System Design and Performance Capability."

The inspection will evaluate the capability of installed plant equipment to detect and respond to a loss of offsite power event. Procedures which direct the mitigating actions for this event will also be evaluated.

During a telephone conversation on March 7, 2005, Mr. Larry Mellen of my staff, and Mr. Ken Frehafer of your staff, confirmed arrangements for an information gathering site visit and the two-week onsite inspection. The schedule is as follows:

- Information gathering visit: Week of May 16, 2005
- Onsite inspection weeks: June 13 and June 20, 2005

The purpose of the information gathering visit is to obtain information and documentation outlined in the enclosure needed to support the inspection. Mr. Rudy Bernhard, a Region II Senior Reactor Analyst, may accompany Mr. Mellen during the information gathering visit to review probabilistic risk assessment data and identify risk significant components which will be examined during the inspection. Please contact Mr. Mellen prior to preparing copies of the materials listed in the enclosure. The inspectors will try to minimize your administrative burden by specifically identifying only those documents required for inspection preparation.

During the information gathering visit, the team leader will also discuss the following inspection support administrative details: office space; specific documents requested to be made available to the team in their office space; arrangements for site access; and the availability of knowledgeable plant engineering and licensing personnel to serve as points of contact during the inspection.

Thank you for your cooperation in this matter. If you have any questions regarding the information requested or the inspection, please contact Mr. Mellen at (404) 562-4531 or me at (404) 562-4605.

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

Sincerely,

\\RA

Charles R. Ogle, Chief
Engineering Branch 1
Division of Reactor Safety

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

Enclosure: Information Request for the Safety System Design and Performance Capability Inspection

cc w/encl:
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Site Vice President
St. Lucie Nuclear Plant
Florida Power & Light Company
Electronic Mail Distribution

G. L. Johnston
Plant General Manager
St. Lucie Nuclear Plant
Electronic Mail Distribution

(cc w/encl cont'd - See page 3)

(cc w/encl:)

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 XPUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE NON-SENSITIVE
 ADAMS: X Yes ACCESSION NUMBER: _____

OFFICE	RII:DRS	RII:DRP					
SIGNATURE	LSM	JTM					
NAME	LMellen	JMunday					
DATE	3/9/2005	3/9/2005	3/ /2005	3/ /2005	3/ /2005	3/ /2005	3/ /2005
E-MAIL COPY?	YES NO						

INFORMATION REQUEST FOR THE SAFETY SYSTEM DESIGN AND PERFORMANCE CAPABILITY INSPECTION

(The preferred file format is searchable “.pdf” files on CDROM. The CDROM should be indexed and hyperlinked to facilitate ease of use. Please provide 6 copies of each CDROM submitted. Information in “lists” should contain enough information to be easily understood by someone who has a knowledge of pressurized water reactor technology.)

1. Design basis documents for the engineered safety features and other systems used to mitigate the loss of offsite power (LOSP) event. Design basis documents for the high, intermediate, and low voltage electrical systems that power these components.
2. Piping and instrumentation drawings (P&IDs) for the systems used to mitigate the LOSP event. Two paper copies are preferred for these.
3. One-line drawings for the St. Lucie electrical plant, including the switchyard.
4. All procedures used to implement the mitigation strategy for the LOSP event. Include alarm response procedures, normal, abnormal, and emergency operating procedures (EOP) as appropriate. Also include a brief description of the mitigation strategy for handling the LOSP event, including operator actions and equipment used.
5. The EOP users guide, writers guide, and EOP setpoint document as well as calculations used to support the set points in EOPs for the LOSP event.
6. System descriptions and operator training modules for the LOSP event for the systems used to mitigate the event and the onsite and offsite electrical distribution system.
7. A list of major modifications completed in the past 5 years to the emergency diesel generators and the onsite electrical distribution system.
8. List of operating experience program evaluations of industry, vendor, or NRC generic issues related to the LOSP event.
9. Probabilistic risk assessment (PRA) event tree for the LOSP event. A list of PRA identified system dependencies and success criteria for systems used to mitigate a LOSP event. Provide LOSP cutsets and risk achievement worths for those basic events (only assuming an LOSP initiating event).
10. List of all temporary modifications and operator work-around (for the past 3 years) involving any components required for detection or mitigation of a LOSP event.
11. System health reports and/or other performance monitoring information for systems used to detect and mitigate the LOSP event and their power supply systems.
12. A list of condition reports and non-routine work requests initiated since 2000 related to the systems used to detect and mitigate the LOSP event.

Enclosure

13. Quality Assurance audits, self-assessments, and third party assessments performed on the systems used to detect and mitigate a LOSP event for the past two years.
14. Maintenance Rule performance criteria for systems used to detect and mitigate the LOSP event and their electrical power systems. A list of maintenance rule failures of equipment and their power supplies that are used to detect or mitigate the LOSP event.
15. Plant Technical Specifications, Bases, and Technical Requirements Manual.
16. A current copy of the Updated Final Safety Analysis Report.
17. Procedures that provide implementation guidance for the following programs: Corrective Action Program, Maintenance Rule Program, Design Control Program, and Operating Experience Program.