

FORD 1

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co. 05000389
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GOLDBERG, J.H. Florida Power & Light Co.

SUBJECT: Confirms dates of 910219-22, 0304-08 & 0318-22 for electrical distribution sys functional insp.

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January 31, 1991

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

Florida Power and Light Company
ATTN: Mr. J. H. Goldberg
President - Nuclear
P. O. Box 14000
Juno Beach, FL 33408-0420

Gentlemen:

SUBJECT: ELECTRICAL DISTRIBUTION SYSTEM FUNCTIONAL INSPECTION AT ST. LUCIE
NUCLEAR PLANT

This letter confirms the dates of February 19-22, March 4-8 and March 18-22, 1991, for the Electrical Distribution System Functional Inspection (EDSFI) at St. Lucie Nuclear Plant. These dates were established during a telephone conversation between Mr. George Madden of the St. Lucie Staff and Mr. Milton Hunt of this office on January 9, 1991.

The week of February 19-22, 1991, will be for document review and plant familiarization by the NRC inspection team. The remaining two weeks will be devoted to inspection activities. The team will consist of approximately seven inspectors.

It is requested that the management entrance meeting be scheduled for 1:30 p.m. on February 19, 1991, and the exit meeting scheduled for 10:00 a.m. on March 22, 1991. The inspection will take place at the plant site. If possible, sufficient work space should be provided to accommodate both the NRC team members and interfacing licensee personnel. If you have documentation or records requested at locations other than the site, please inform us of their location.

The objective of this inspection is to assess the capacity of the Electrical Distribution System (EDS) to perform its intended functions during all plant operating and accident conditions. It is requested that the following documentation and/or records be made readily available at the site and those indicated by an * should be available at the designated work area:

- *1. As-built electrical drawings for all AC and DC voltage levels (one line diagrams preferred)
- *2. Calculations/analyses supporting plant electrical system design
 - a. Grid voltage stability
 - b. Short-circuit currents, AC and DC
 - c. Voltage regulation and relay setpoints, AC and DC
 - d. Coordination of overcurrent protection (circuit breakers, relays, fuses)

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- e. Cable ampacity
 - f. Electrical design computer program users manual and their validation process
 - g. Index of electrical calculations if available
3. Emergency diesel generator (EDG)
- *a. Load sequencing analysis including load calculations
 - *b. Voltage transient analysis including calculations
 - c. Support systems (fuel, starting air, and room ventilation) design bases and calculations
 - d. Diesel generator protection scheme
4. Electrical modification packages (index with title or description)
- *a. Procedures for the control of modification to electrical systems
5. Station batteries
- *a. Load profile to end of life and battery sizing calculations
 - *b. Fault current analysis
 - *c. Coordination of overcurrent protection
 - *d. Related battery surveillances
6. EDS Maintenance, Testing and Calibrations
- *a. Copies of the most recently completed EDG Surveillances
 - *b. Medium and low voltage switchgear and breaker maintenance procedures
 - *c. Load shedding and sequencer functional test and calibration procedures
 - *d. Degraded voltage and loss of voltage relay calibration procedures and copies of the last two completed calibrations procedures
 - *e. Calibration procedures for protective relays associated with the safety-related shutdown boards and copies of the last two completed calibrations procedures
 - *f. Vendor manuals for the above switchgear, breakers, sequencer and protective relays
7. Other related documentation/procedures applicable to your plant
- *a. Two copies of the UFSAR, and four copies of Chapter 8 from the UFSAR
 - *b. List of codes and standards which are applicable to the electrical distribution system design, testing and maintenance
 - *c. Technical specifications for both units, unless they are combined



January 31, 1991

Sufficient licensee personnel, knowledgeable in the above areas, should be available to support the inspection effort. Your cooperation during this inspection will be appreciated. Should you have any questions regarding this inspection, please contact M. Shymlock at 404/331-5596 or M. Hunt at 404/331-5353.

Sincerely,

Original signed by
Caudle A. Julian

Caudle A. Julian, Chief
Engineering Branch
Division of Reactor Safety

cc w/encl:

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cc w/encl: (See page 2)



January 31, 1991

(cc w/encl cont'd)
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J. Norris, NRR

NRC Resident Inspector
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*FOR PREVIOUS CONCURRENCE - SEE ATTACHED COPY

*RII: DRS
MHunt
01/29/91

RII: DRS
MShymlock
01/29/91

RII: DRP
JCrlenjak
01/29/91

January 31, 1991

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