



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
101 MARIETTA STREET, N.W.  
ATLANTA, GEORGIA 30323

Report Nos.: 50-250/90-39 and 50-251/90-39

Licensee: Florida Power and Light Company  
9250 West Flagler Street  
Miami, FL 33102

Docket Nos.: 50-250 and 50-251

License Nos.: DPR-31 and DPR-41

Facility Name: Turkey Point 3 and 4

Inspection Conducted: November 5-9, 1990

Inspector:

*M. Thomas*  
for M. Thomas

*11/21/90*  
Date Signed

Approved by:

*F. Jape*  
F. Jape, Chief  
Engineering Assessment Section  
Engineering Branch  
Division of Reactor Safety

*11/21/90*  
Date Signed

SUMMARY

Scope:

This routine, unannounced inspection was conducted in the areas of emergency diesel generator post installation testing and followup on design validation inspection open items.

Results:

In the areas inspected, violations or deviations were not identified. The interface, communication, and coordination was good among the various departments involved in the EDG testing.

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## REPORT DETAILS

### 1. Persons Contacted

#### Licensee Employees

- \*J. Arias, Assistant to Vice President
- \*W. Bladow, Quality Manager
- \*J. Broadwater, Lead Startup Engineer
- \*R. Daly, Outage Manager
- D. Haase, Chairman, Independent Safety Engineering Group
- \*D. Herrin, Regulation and Compliance Engineer
- \*L. Huenniger, Startup Superintendent
- \*V. Kaminskis, Operations Superintendent
- J. Knorr, Regulation and Compliance Supervisor
- \*M. Laca, Configuration Group Supervisor
- G. Morrow, Startup Engineer
- G. Ondriska, Startup Engineer
- L. Pearce, Plant Manager
- \*D. Powell, Licensing Superintendent
- \*D. Tomaszewski, Outage Management
- \*J. Webb, Planning and Scheduling Supervisor
- \*A. Zielonka, Technical Department Supervisor

Other licensee employees contacted during this inspection included engineers, operators, mechanics, technicians, and administrative personnel.

R. Carlson, Morrison - Knudsen Company, Power Systems Division

#### NRC Resident Inspectors

- \*R. C. Butcher, Senior Resident Inspector
- \*G. A. Schnebli, Resident Inspector

\*Attended exit interview

Acronyms and initialisms used throughout this report are listed in the last paragraph.

### 2. Design Changes and Modifications (37700)

The inspector reviewed in part PC/M 87-263, New EDGs Installation, Revision 11, Supplement No. 4. This modification was reviewed to verify that the PC/M was reviewed and approved in accordance with applicable licensee administrative controls and that post modification testing requirements were specified.

Portions of the post modification test requirements were incorporated in preoperational procedure 0804.037, Emergency Diesel Generator 4A System Preoperational Test Phase I and procedure 0804.098, Emergency Diesel Generator 4B System Preoperational Test Phase I. Licensee personnel stated that emergency diesel generator (EDG) 4B preoperational testing is scheduled to begin on or about December 1, 1990. Preoperational testing for EDG 4A is scheduled to begin on or about January 5, 1991.

The inspector observed portions of the prerequisite testing being performed on EDG 4B prior to the scheduled preoperational testing. The testing was being performed in accordance with procedure DT<sup>S</sup> 4DE01B-M-00101 SFP-14, Place EDG 4B Auxiliary Systems in Operation and Initial Engine Run. The inspector verified that test personnel performed appropriate prerequisites and established initial conditions prior to beginning testing. Discrepancies and problems encountered during testing were properly documented for resolution by appropriate personnel.

The inspector observed that the interface, communication, and coordination was very good among the various departments involved with and providing support for the EDG testing.

No violations or deviations were identified in the areas inspected.

### 3. Followup on Previously Identified Items (92701)

The inspector reviewed actions taken by the licensee on the items listed below which were identified during a Design Validation Inspection performed by the NRC. The following items were reviewed and closed.

- a. (Closed) IFI 50-250, 251/89-203-01, Resolution of the SEG Open Items from the Phase I and Phase II Reviews

The inspector discussed the status of the open items with the ISEG (formerly SEG) Chairman. At the time of the DVI inspection there were 53 Phase I and Phase II open items. Resolutions had not been proposed for all the items at the time of the DVI inspection.

The inspector reviewed documentation which showed that 38 of the SEG items remain open. All of the open SEG items have resolutions except one. That one item was being evaluated by ISEG personnel to determine a final resolution. Licensee personnel were in the process of establishing target dates for completion of the open SEG items. All of the items are being tracked by ISEG personnel who stated that they will continue to track the items to completion and final closure.

The inspector determined that the licensee is actively tracking and pursuing closure of the remaining SEG open items. Therefore, this IFI is being closed.



- b. (Closed) IFI 50-250, 251/89-203-02, Issuance of SEG Reports for the Process Radiation Monitors, Area Radiation Monitors, and Normal Containment Cooling System.

The SEG Phase II report on ARMS, PRMS, and NCCS was issued on October 15, 1989. As a result of this report, an additional 24 items were added to the SEG open item list. The inspector discussed this issue with the ISEG Chairman who stated that the items have been added to the SEG open items list. Resolutions have been developed for the items. ISEG will continue to track the items to final completion. The inspector considers the licensee actions and followup to be adequate. This IFI is considered closed.

- c. (Closed) IFI 50-250/89-203-04, Resolution of the Select Systems Punchlist.

The inspector reviewed this item with licensee personnel. As of October 1989, there were approximately 700 punchlist items open out of a total of over 2400 items. The punchlist closure effort consisted of a review of each open item and the research to determine the item's status. Closure of each punchlist item was documented based on one of the following:

- (1) The item had been implemented or completed
- (2) Work to address the item had been cancelled by the PRB or was determined to be not cost effective by the system engineer.
- (3) The work to address the item was not complete but is being tracked under a formal tracking program such as PC/Ms, REAs, PWOs, IS modifications, etc.

As a result of the punchlist closure effort, approximately 500 items were closed and require no further action. Approximately 200 items were resolved based on required actions being tracked under one of the accepted tracking mechanisms.

The inspector considers the licensee's actions to address this issue to be adequate. This item is closed.

- d. (Closed) IFI 50-250, 251/89-203-07, Completion of the Unit 2 P&ID Walkdowns Inside Containment and Associated Nonconformance Resolution.

The inspector reviewed this item with licensee personnel who stated that the walkdowns were performed by QC personnel. The inspector reviewed an inter-office memo dated March 8, 1990, from the Project QC Supervisor to the Engineering Project Manager, which stated that no P&ID deficiencies were found and there were no outstanding items associated with the walkdown effort. This item is closed.

#### 4. Exit Interview

The inspection scope and results were summarized on November 9, 1990, with those persons indicated in paragraph 1. The inspector described the areas inspected and discussed in detail the inspection results. Proprietary information is not contained in this report. Dissenting comments were not received from the licensee.

#### 5. Acronyms and Initialisms

ARMS	Area Radiation Monitoring System
DVI	Design Validation Inspection
EDG	Emergency Diesel Generator
IFI	Inspector Followup Item
IS	Integrated Schedule
ISEG	Independent Safety Engineering Group
NCCS	Normal Containment Cooling System
PC/M	Plant Change Modification
P&ID	Piping and Instrumentation Diagram
PRB	Plant Review Board
PRMS	Process Radiation Monitoring System
PWO	Plant Work Order
QC	Quality Control
REA	Request for Engineering Assistance
SEG	Safety Engineering Group