



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

**February 2, 2001**

Florida Power and Light Company  
ATTN: Mr. T. F. Plunkett  
President - Nuclear Division  
P. O. Box 14000  
Juno Beach, FL 33408-0420

**SUBJECT: TURKEY POINT NUCLEAR PLANT - NRC EXAMINATION REPORT  
50-250/2000-301 AND 50-251/2000-301**

Dear Mr. Plunkett:

On December 14, 2000, the Nuclear Regulatory Commission (NRC) completed administration of operating examinations to employees of your company who had applied for licenses to operate the Turkey Point Nuclear Plant Units 3 and 4. The enclosed report documents the examination results and findings which were discussed on December 15, 2000, with Ms. M. Lacal and other members of your staff.

Thirteen Reactor Operator and six Senior Reactor Operator applicants passed both the written and operating examinations. One Reactor Operator applicant failed the operating examination. A Simulation Facility Report is included in this report as Enclosure 2.

No findings of significance were identified.

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter and its enclosures 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/ADAMS/index.html> (the Public Electronic Reading Room).

Sincerely,

**/RA By R. Baldwin Acting For/**

Michael E. Ernstes, Chief  
Operator Licensing and  
Human Performance Branch  
Division of Reactor Safety

Docket Nos.: 50-250, 50-251  
License Nos.: DPR-31, DPR-41

Enclosures: (See page 2)

Enclosures: 1. Examination Report 50-250/2000-301, 50-251/2000-301  
2. Simulation Facility Report

cc w/encls:

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NUCLEAR REGULATORY COMMISSION

REGION II

Docket Nos.: 50-250 and 50-251

License Nos.: DPR-31 and DPR-41

Report Nos.: 50-250/2000-301 and 50-251/2000-301

Licensee: Florida Power and Light Company (FPL)

Facility: Turkey Point Nuclear Plant, Units 3 & 4

Location: 9760 S. W. 344<sup>th</sup> Street  
Florida City, FL 33035

Dates: Operating Tests - November 27 - December 1, 2000  
December 11 - December 14, 2000  
Written Examination - December 6, 2000

Examiners: C. Payne, Chief License Examiner  
R. Aiello, License Examiner  
M. Miller, License Examiner  
M. Sykes, License Examiner  
S. Rose, License Examiner (In-training)

Approved by: M. Ernstes, Chief  
Operator Licensing and Human Performance Branch  
Division of Reactor Safety

## SUMMARY OF FINDINGS

ER 05000250-00-301, ER 05000251-00-301, on 11/27-12/14/2000, Florida Power & Light, Turkey Point Nuclear Plant, Units 3 & 4, RO & SRO initial operator licensing examinations, examination security & integrity, simulator fidelity.

The operator licensing initial examinations were developed and administered by NRC examiners in accordance with the guidance of NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 8, Supplement 1. The examination implemented the operator licensing requirements of 10 CFR §55.41, §55.43, and §55.45.

### Cross-cutting Issues: Human Performance

- No Color. Fourteen Reactor Operator (RO) applicants and six Senior Reactor Operator (SRO) applicants were administered written examinations and operating tests. One RO applicant failed the administrative portion of the operating test. All other applicants passed the examination and were issued operator licenses commensurate with the level of examination administered.
- No significant findings were identified

## Report Details

### 4. OTHER ACTIVITIES (OA)

#### **4OA5** Operator Licensing Initial Examinations

##### a. Scope

NRC examiners developed operating tests and written examinations in accordance with NUREG 1021, "Operator Licensing Examination Standards for Power Reactors," Revision 8, Supplement 1. The draft examinations were shared, adhering to examination security requirements, with the licensee examination team for review, validation and comment. Examination changes agreed upon between the NRC and the licensee were made according to NUREG-1021 and incorporated into the final version of the examination materials. The NRC administered the approved operating tests during the periods of November 27 through December 1, 2000 and December 11 through 14, 2000 to fourteen RO applicants and six SRO applicants. The licensee staff administered the approved written examination on December 6, 2000. The examiners reviewed the examination security measures to ensure examination security and integrity.

##### b. Issues and Findings

No findings of significance were identified.

Thirteen RO and six SRO applicants passed both examinations and were issued operator licenses commensurate with the level of examination administered. One RO applicant failed the administrative portion of the operating test. Details of each applicant's deficiencies are described in the individual's examination report, Form ES-303-1, "Operator Licensing Examination Report." Copies of these evaluations were forwarded under separate cover to the Training Manager to allow evaluation of noted deficiencies so appropriate remedial training may be provided, as necessary.

The licensee was provided a copy of the as-given written examinations (ADAMS Accession Numbers ML010080359 and ML010080385). There were no post examination comments submitted by the licensee.

#### **4OA6** Meetings

##### Exit Meeting Summary

The Chief Examiner presented the preliminary examination results on December 15, 2000, to members of licensee management. The licensee acknowledged the examination results presented.

The inspectors asked the licensee whether any materials examined during the inspection should be considered proprietary. No proprietary information was identified.

LIST OF PERSONS CONTACTED

R. Bretton, Operations Continuing Training Supervisor  
S. Franzone, Licensing Manager  
R. Flynn, Operations Supervisor  
T. Jones, Operations Manager  
M. Lacal, Training Manager  
G. Laughlin, Operations Initial Training Supervisor  
W. Prevatt, Operations Supervisor

## SIMULATION FACILITY REPORT

Facility Licensee: Turkey Point

Facility Docket Nos.: 50-250 and 50-251

Operating Tests Administered on: November 27 - December 14, 2000

This form is to be used only to report observations. These observations do not constitute audit or inspection findings and are not, without further verification and review, indicative of noncompliance with 10 CFR 55.45(b). These observations do not affect NRC certification or approval of the simulation facility other than to provide information that may be used in future evaluations. No licensee action is required in response to these observations.

While conducting the simulator portion of the operating tests, the following items were observed:

<u>ITEM</u>	<u>DESCRIPTION</u>
Main Generator Synchroscope	During examination administration, a simulator modification (made to duplicate a similar, plant modification affecting the synchroscope interlock for closing the Main Generator output breaker) was found to have certain timing parameters not set as required. During troubleshooting, it was also identified that the "window of opportunity" to successfully close the output breaker was dependent on the speed at which the synchroscope was rotating. The faster the speed of rotation, the shorter the time frame when the breaker could be closed, and the closer to the 12 o'clock position the synchroscope pointer had to be when the breaker control switch was turned to the CLOSE position. Because of this variable "window of opportunity," the procedural guidance of 3-GOP-301, Step 5.54.4, which states "When the synchroscope is between 5 minutes before 12 o'clock and exactly 12 o'clock, then close the breaker...", was found to be difficult to achieve by the applicants performing the task. This issue was a previously unknown effect of the modification on operator performance. No adverse conditions in the plant had occurred as a result of this issue. The licensee adjusted the simulator synchroscope parameters to match the modification design criteria during the examination. The procedure and operator training issues were added to the corrective action program.