

**REGULATORY DOCKET FILE COPY**

*Docket File*  
*50-250*

JULY 30 1980

Docket No. 50-250

Dr. Robert E. Uhrig, Vice President  
Advanced Systems and Technology  
Florida Power and Light Company  
Post Office Box 529100  
Miami, Florida 33152

Dear Dr. Uhrig:

The Commission has issued the enclosed Amendment No. *59* to Facility Operating License No. DPR-31 for the Turkey Point Plant Unit No. 3. The amendment consists of changes to the Technical Specifications in response to your application transmitted by letter dated June 30, 1980.

The amendment permits continued operation of the Turkey Point Plant Unit No. 3 for eight and one half equivalent months of operation from January 24, 1980 at which time the steam generators shall be inspected.

Copies of the Safety Evaluation and the Notice of Issuance are also enclosed.

Sincerely,

Original signed by:  
**S. A. Varga**

Steven A. Varga, Chief  
Operating Reactors Branch #1  
Division of Licensing

Enclosures:

1. Amendment No. *59* to DPR-31
2. Safety Evaluation
3. Notice of Issuance

cc: w/enclosures  
See next page

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

July 30, 1980

Docket No. 50-250

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Copies of the Safety Evaluation and the Notice of Issuance are also enclosed.

Sincerely,

A handwritten signature in dark ink, appearing to read "Steven A. Varga".

Steven A. Varga, Chief  
Operating Reactors Branch #1  
Division of Licensing

Enclosures:

1. Amendment No. 59 to DPR-31
2. Safety Evaluation
3. Notice of Issuance

cc: w/enclosures  
See next page

Robert E. Uhrig  
Florida Power and Light Company

- 2 -

July 30, 1980

cc: Mr. Robert Lowenstein, Esquire  
Lowenstein, Newman, Reis and Axelrad  
1025 Connecticut Avenue, N.W.  
Suite 1214  
Washington, D. C. 20036

Environmental and Urban Affairs Library  
Florida International University  
Miami, Florida 33199

Mr. Norman A. Coll, Esquire  
Steel, Hector and Davis  
1400 Southeast First National  
Bank Building  
Miami, Florida 33131

Mr. Henry Yaeger, Plant Manager  
Turkey Point Plant  
Florida Power and Light Company  
P. O. Box 013100  
Miami, Florida 33101

Honorable Dewey Knight  
County Manager of Metropolitan  
Dade County  
Miami, Florida 33130

Bureau of Intergovernmental Relations  
660 Apalachee Parkway  
Tallahassee, Florida 32304

Resident Inspector  
Turkey Point Nuclear Generating Station  
U. S. Nuclear Regulatory Commission  
Post Office Box 971277  
Quail Heights Station  
Miami, Florida 33197

Director, Technical Assessment Division  
Office of Radiation Programs (AW-459)  
U. S. Environmental Protection Agency  
Crystal Mall #2  
Arlington, Virginia 20460

U. S. Environmental Protection Agency  
Region IV Office  
ATTN: EIS COORDINATOR  
345 Courtland Street, N.W.  
Atlanta, Georgia 30308

Mr. Jack Shreve  
Office of the Public Counsel  
Room 4, Holland Building  
Tallahassee, Florida 32304

Administrator  
Department of Environmental  
Regulation  
Power Plant Siting Section  
State of Florida  
2600 Blair Stone Road  
Tallahassee, Florida 32301

Dr. Robert E. Uhrig  
Florida Power and Light Company

- 3 -

July 30, 1980

cc: Elizabeth S. Bowers, Esquire,  
Chairman  
Atomic Safety and Licensing Board  
Panel  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Dr. Emmeth A. Luebke  
Atomic Safety and Licensing Board  
Panel  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Mr. Mark P. Oncavage  
12200 S. W. 110th Avenue  
Miami, Florida 33176

Neil Chonin, Esquire  
New World Tower Building, 30th Floor  
100 N. Biscayne Boulevard  
Miami, Florida 33132

Henry H. Harnage, Esquire  
Peninsula Federal Building, 10th Floor  
200 S. E. First Street  
Miami, Florida 33131

Dr. Oscar H. Paris  
Atomic Safety and Licensing Board Panel  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

FLORIDA POWER AND LIGHT COMPANY

DOCKET NO. 50-250

TURKEY POINT PLANT, UNIT NO. 3

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 59  
License No. DPR-31

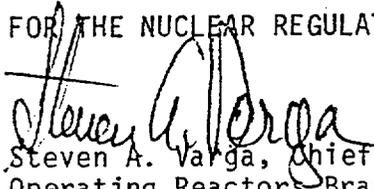
1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Florida Power and Light Company (the licensee) dated June 30, 1980, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public;  
and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, paragraph 3.E of the license is modified to amend sub-paragraph 3.E.5 of Facility Operating License No. DPR-31 to read as follows:

E. Steam Generator Inspections

5. In order to perform an inspection of the steam generators, Unit No. 3 shall be brought to the cold shutdown condition within eight and one half equivalent months of operation from January 24, 1980 or at the next refueling shutdown, whichever occurs first, unless: (1) an inspection of the steam generators is performed within this period as a result of the requirements in 2, 3, and 4 above, or (2) an acceptable analysis of the susceptibility for stress corrosion cracking of tubing is submitted to explicitly justify continued operation of Unit No. 3 beyond the authorized period of operation. Any analysis justifying continued operation must be submitted at least 45 days prior to the expiration date of the authorized period of operation. For the purpose of this requirement, equivalent operation is defined as operation with a primary coolant temperature greater than 350°F. NRC approval shall be obtained before resuming power operation following this inspection.
3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

  
Steven A. Varga, Chief  
Operating Reactors Branch #1  
Division of Licensing

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: July 30, 1980

ATTACHMENT TO LICENSE AMENDMENT

AMENDMENT NO. 59 TO FACILITY OPERATING LICENSE NO. DPR-31

DOCKET NO. 50-250

Replace the following page of Facility Operating License No. DPR-31 with the attached page as indicated. The changed area in the license is indicated by a marginal line.

Remove Pages

4

Insert Pages

4

2. Primary to secondary leakage through the steam generator tubes shall be limited to 0.3 gpm per steam generator. With any steam generator tube leakage greater than this limit, the reactor shall be brought to the cold shutdown condition within 24 hours. The leaking tube(s) shall be evaluated and plugged prior to resuming power operation, if leaking is not attributable to the denting phenomena.
3. Reactor operation shall be terminated and Nuclear Regulatory Commission approval shall be obtained prior to resuming operation if primary to secondary leakage attributable to the tube denting phenomena is detected from two or more tubes in the plant in any 20-day period.
4. Unit No. 3 steam generators shall be inspected during the next refueling outage or sooner in the event the limitations of 2 and 3, above, are exceeded. Nuclear Regulatory Commission approval shall be obtained before resuming power operation following this inspection.
5. In order to perform an inspection of the steam generators, Unit No. 3 shall be brought to the cold shutdown condition within eight and one-half equivalent months of operation from January 24, 1980 or at the next refueling shutdown, whichever occurs first, unless: (1) an inspection of the steam generators is performed within this period as a result of the requirements in 2, 3 and 4 above, or (2) an acceptable analysis of the susceptibility for stress corrosion cracking of tubing is submitted to explicitly justify continued operation of Unit No. 3 beyond the authorized period of operation. Any analysis justifying continued operation must be submitted at least 45 days prior to the expiration date of the authorized period of operation. For the purpose of this requirement, equivalent operation is defined as operation with a primary coolant temperature greater than 350°F. NRC approval shall be obtained before resuming power operation following this inspection.

F. Physical Security

The licensee shall maintain in effect and fully implement all provisions of the Commission-approved physical security plan, including amendments and changes made pursuant to the authority of 10 CFR 50.54(p). The approved security plan documents, withheld from public disclosure pursuant to 10 CFR 2.790(d), collectively titled "Turkey Point Plant Unit Nos. 3 and 4 Physical Security Plan", dated October 18, 1979, as supplemented February 20, 1979.



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 59 TO FACILITY OPERATING LICENSE NO. DPR-31

FLORIDA POWER AND LIGHT COMPANY

TURKEY POINT PLANT, UNIT NO. 3

DOCKET NO. 50-250

Introduction

By letter dated June 30, 1980, (L-80-206) Florida Power and Light Company (the licensee) submitted a request for amendment to license No. DPR-31 which would permit an extension of the operating interval for the Turkey Point Plant Unit No. 3. The amendment would permit Unit 3 to operate until October 6, 1980 at which time a steam generator inspection would be performed. The current license requires a steam generator inspection on July 31, 1980. This license amendment was issued on January 25, 1980 on the basis of steam generator inspection results presented in a letter dated January 10, 1980 (L-80-8) as supplemented on January 18, 1980 (L-80-26).

Background

Since December, 1976, operation of the Turkey Point Unit 3 steam generators has been closely monitored by the NRC due to the presence of extensive tube denting in the steam generator tubes. A six-month operating interval between steam generator inspections was implemented to monitor the rate of tube degradation. Between December 1976 and January 1980, Florida Power and Light Company conducted four steam generator inspections and requested five extensions. The first two extensions were granted in 1977 for a total of five months. The next two extensions were granted in 1978 for a total of six months. The last extension was granted in 1979 for seven weeks. No steam generator tube leaks have been detected since July 1978.

By letter (L-80-8) dated January 10, 1980, the licensee submitted the results of the most recent steam generator inspection for Turkey Point Unit 3 and requested authorization to return to power. The technical basis for the preventative plugging program implemented subsequent to the inspection was consistent with that for programs performed previously at this and other similarly degraded units. These programs have been determined adequate by the NRC staff to support six equivalent\* months of operation. The plugging criteria implemented during this inspection were the same as those implemented during the January 1979 inspection. These criteria were more conservative than those implemented previously for six (6) months operation to support ten (10) equivalent months of operation.

\*Equivalent operation is defined as operation with a primary coolant temperature greater than 350°F.

As indicated in our Safety Evaluation supporting the current authorization to operate Turkey Point Unit 3, we did not have an adequate technical basis to predict steam generator performance for periods longer than six (6) months at a time, and that our consideration of extended operation beyond six months would depend on the operating experience at this and similarly degraded PWR units. Accordingly, License Amendment 52 authorizes Turkey Point Unit 3 to operate for only six (6) equivalent months.

By letter (L-80-206) dated June 30, 1980, the licensee requested an amendment to the operating license for Turkey Point Unit 3 to allow 8-1/2 equivalent months of operation (from the date of start-up following the December 1979 inspection) prior to the next steam generator inspection. The licensee has justified its request on the basis of its January 10, 1980 submittal, existing steam generator operating restrictions, and the continued leak free operation of Turkey Point Unit 3 since July 1978.

The January 10, 1980 submittal regarding the results of the most recent steam generator inspection and the implemented plugging criteria at Turkey Point Unit 3 was discussed and evaluated in the SER attached to License Amendment 52 dated January 25, 1980. The January 25, 1980 SER is incorporated into this Safety Evaluation by reference.

### Evaluation

Turkey Point Unit 3 has operated since restart on January 24, 1980 without detectable steam generator leakage. This experience plus the results of the most recent inspection at this unit indicate that the denting phenomenon remains in a predictable mode. In addition, the preventative plugging criteria implemented by the licensee since January 1979 and evaluated in our above referenced SER were based upon the predicted growth (using finite element analysis) of the 17.5% tube hoop strain contour during a ten (10) month operating interval. These criteria were proved to be more conservative than those employed in previous inspections at this and at similarly degraded units which were based upon the predicted growth of the 17.5% contour over a six (6) month operating interval. The basis for these plugging criteria have been previously accepted by NRC and been shown to adequately support six (6) months of steam generator operation.

As expressed in our above referenced SER, we continue to have reservations regarding the validity of extrapolating the predictive methodology beyond six months. Considering, however, (1) that the implemented plugging criteria were significantly more conservative than the criteria already accepted by NRC as being adequate to support six (6) months of operation, (2) that previous operating interval of six (6) months plus the authorized extension of seven (7) weeks was completed with no detectable steam generator leakage, and (3) that the currently authorized six month operation

interval has essentially been completed with no detectable steam generator leakage, we conclude that the operating interval may be extended until October 6, 1980 without significantly altering our previous conclusions that the steam generator tubes will maintain an acceptable degree of integrity. The above considerations, together with the existing licensing conditions restricting steam generator operation in the event that detectable leaks occur, provide reasonable assurance that the health and safety of the public will be protected.

#### Environmental Consideration

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR §51.5(d)(4), that an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

#### Conclusion

We have concluded, based on the considerations discussed above, that: (1) because the amendment does not involve a significant increase in the probability or consequences of accidents previously considered and does not involve a significant decrease in a safety margin, the amendment does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date: July 30, 1980

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NO. 50-250FLORIDA POWER AND LIGHT COMPANYNOTICE OF ISSUANCE OF AMENDMENT TO FACILITY  
OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 59 to Facility Operating License No. DPR-31 issued to Florida Power and Light Company (the licensee), which revised Technical Specifications for operation of the Turkey Point Plant Unit No. 3 (the facility) located in the Dade County, Florida. The amendment is effective as of the date of issuance.

The amendment permits continued operation of the Turkey Point Plant Unit No. 3 for eight and one half equivalent months of operation from January 24, 1980 at which time the steam generators shall be inspected.

The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendment. Prior public notice of this amendment was not required since this amendment does not involve a significant hazards consideration.

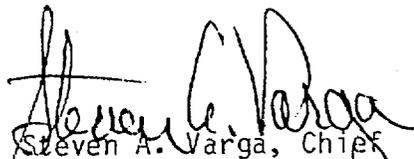
- 2 -

The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the application for amendment dated June 30, 1980, (2) Amendment No. 59 to License No. DPR-31, and (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D.C. and at the Environmental and Urban Affairs Library, Florida International University, Miami, Florida 33199. A copy of items (2) and (3) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Director, Division of Licensing.

Dated at Bethesda, Maryland, this 30th day of July, 1980.

FOR THE NUCLEAR REGULATORY COMMISSION



Steven A. Varga, Chief  
Operating Reactors Branch #1  
Division of Licensing