



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

May 31, 1988

Docket Nos. 50-250
and 50-251

Mr. W. F. Conway
Senior Vice President - Nuclear
Florida Power and Light Company
P.O. Box 14000
Juno Beach, Florida 33408

Dear Mr. Conway:

SUBJECT: TURKEY POINT UNITS 3 AND 4 REACTOR VESSEL
FRACTURE TOUGHNESS (TAC NOS. 68249 AND 55042)

The purpose of this letter is to transmit our review of two reports submitted by Florida Power and Light Company (FP&L). These reports were intended to demonstrate by analysis the existence of adequate safety margins in the Turkey Point Units 3 and 4 reactor vessels when the Charpy upper-shelf energy is below the 50 ft-lb requirement in Appendix G of 10 CFR 50.

By letters dated May 3, 1984 and March 25, 1986, FP&L submitted for NRC's review a fracture toughness analysis of the beltline welds for the Turkey Point reactor vessels. In our Safety Evaluation (enclosed) we have identified the need for additional analysis and data acquisition. Until this information is provided, we cannot complete our review of the reports.

We request that within one year of the date of this letter, FP&L provide a revised analysis incorporating the information requested and a plan for data acquisition. The analysis should include an estimate of the Charpy upper-shelf energy at both the next refueling outage following the submittal date of the report and at expiration of the Turkey Point Units 3 and 4 licenses. The Charpy upper-shelf energy estimates for the beltline weld should be based on the plant's anticipated future fuel management plan and extrapolation of the surveillance data from the Turkey Point Integrated Surveillance Program using the method recommended in Regulatory Guide 1.99, Rev. 2.

We also recommend that FP&L contact the ASME Code Section XI Committee (Working Group on Flaw Evaluation) to determine the status of the Committee's development of recommended safety margins and any impact they would have on Turkey Point if approved for use by the NRC.

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P PDR

May 31, 1988

Mr. W. F. Conway

- 2 -

The reporting and/or recordkeeping requirements contained in this letter affect fewer than 10 respondents; therefore, OMB clearance is not required under P.L. 96-511.

Sincerely,

Gordon E. Edison, Sr. Project Manager
Project Directorate II-2
Division of Reactor Projects-I/II
Office of Nuclear Reactor Regulation

Enclosure: As stated

cc w/enclosure:
See next page

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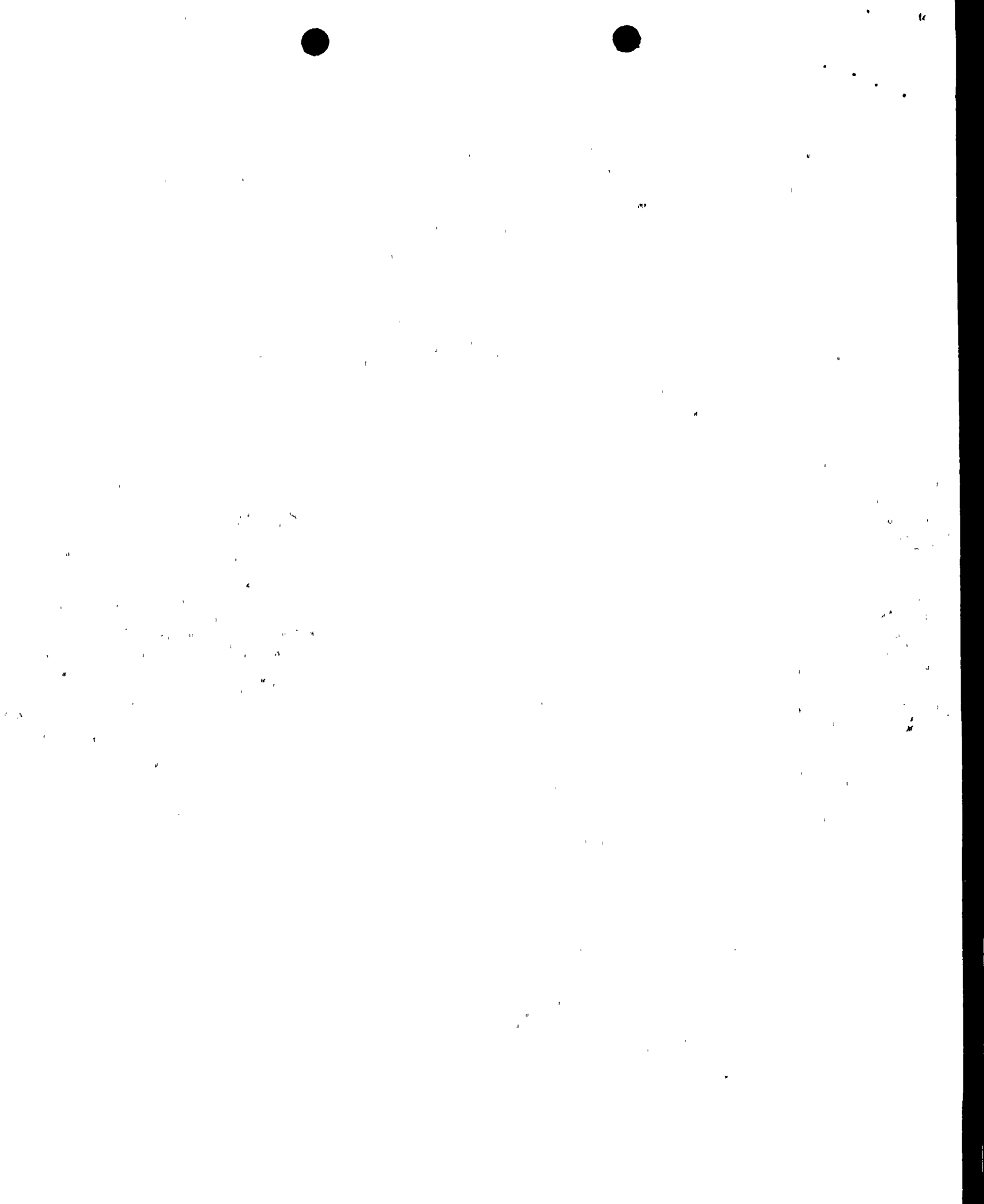
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G. Lainas
D. Miller
G. Edison
OGC-WF
E. Jordan
J. Partlow
ACRS (10)
Gray File
B. Elliot
K. Wickman
N. Randall
W. Hazelton
C. Y. Cheng

*See previous concurrence

*LA:PDII-2
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Mr. W. F. Conway

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Mr. W. F. Conway
Florida Power and Light Company

Turkey Point Plant

CC:

Harold F. Reis, Esquire
Newman and Holtzinger, P.C.
1615 L Street, N.W.
Washington, DC 20036

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

John T. Butler, Esquire
Steel, Hector and Davis
4000 Southeast Financial
Center
Miami, Florida 33131-2398

Mr. J. Odom, Vice President
Turkey Point Nuclear Plant
Florida Power and Light Company
P.O. Box 029100
Miami, Florida 33102

County Manager of Metropolitan
Dade County
Miami, Florida 33130

Resident Inspector
U.S. Nuclear Regulatory Commission
Turkey Point Nuclear Generating Station
Post Office Box 57-1185
Miami, Florida 33257-1185

Jacob Daniel Nash
Office of Radiation Control
Department of Health and
Rehabilitative Services
1317 Winewood Blvd.
Tallahassee, Florida 32399-0700

Intergovernmental Coordination
and Review
Office of Planning & Budget
Executive Office of the Governor
The Capitol Building
Tallahassee, Florida 32301

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

Regional Administrator, Region
U.S. Nuclear Regulatory Commiss
Suite 2900
101 Marietta Street
Atlanta, Georgia 30323

Attorney General
Department of Legal Affairs
The Capitol
Tallahassee, Florida 32304

Plant Manager
Turkey Point Nuclear Plant
Florida Power and Light Company
P.O. Box 029100
Miami, Florida 33102

