

October 23, 1987

Docket No. 50-335

Mr. C. O. Woody
Group Vice President
Nuclear Energy
Florida Power and Light Company
Post Office Box 14000
Juno Beach, Florida 33408

Dear Mr. Woody:

DISTRIBUTION

Docket File J. Partlow
NRC PDR ACRS (10)
Local PDR Gray File
PD22 Reading H. Ashar
S. Varga
G. Lainas
D. Miller
E. Tourigny
OGC-Bethesda
E. Jordan

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION (TAC NO. 65587)

In conducting our review of your June 12, 1987 submittal relating to expanding the spent fuel pool storage capacity at the St. Lucie Plant, Unit No. 1, we have determined that we will need additional information identified in the enclosure to continue our review.

In order for us to maintain our review schedule, your response is requested within 30 days of your receipt of this letter. We are also prepared to meet with your staff to discuss the responses to expedite our review.

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.

Please contact me at (301) 492-9786 if you have any questions concerning this letter.

Sincerely,

E. G. Tourigny, Project Manager
Project Directorate II-2
Division of Reactor Projects-I/II

Enclosure: As stated

cc w/enclosure:
See next page

LA:PDII-2
DMS:KAR
10/9/87

PM:PDII-2
ETourigny:bg
10/13/87

ESGB
GBagchi
10/20/87

D:PDII-2
HBenkow
10/23/87

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PDR ADDOCK 05000335
PDR

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Enclosure: As stated

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LA:PDII-2
DNU:KAC
10/19/87

PM:PDII-2
ETourigny:bg
10/13/87

ES:8
GBagchi
10/10/87

D:PDII-2
HBerkow
10/13/87

Mr. C. O. Woody
Florida Power & Light Company

St. Lucie Plant

cc:

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Executive Director for Operations
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Atlanta, Georgia 30323

ENCLOSURE

REQUEST FOR ADDITIONAL INFORMATION
ST. LUCIE 1 - SPENT FUEL STORAGE POOL EXPANSION

1. Provide the results of the multi-rack seismic analysis for racks (modules) A_1 , A_2 , B_1 , and B_2 .
2. Explain how the increased load of the spent fuel pool due to the re-racking changes the safety margin on the liquefaction potential of the soils beneath the fuel handling building?
3. Demonstrate that in developing the simulated seismic excitation for the pool floor, the spectra enveloping requirement of SRP 3.7.II.a is met.
4. Was pool wall flexibility considered in the fuel rack analysis model?
5. Provide a description of the EBS/NASTRAN and the POSRUKF programs and sample outputs. Discuss how these programs were verified. Also, provide a list of values of modeling parameters used in the pool structure analysis.
6. How was fuel assembly structural integrity demonstrated under seismic and impact load conditions?
7. How was the structural integrity of the Boraflex material and its cover plate demonstrated under all design conditions?
8. How was the leak-tight integrity of the pool liner evaluated? Was consideration given to potential punching or tearing of the liner due to rack-to-floor impacts?