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:

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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

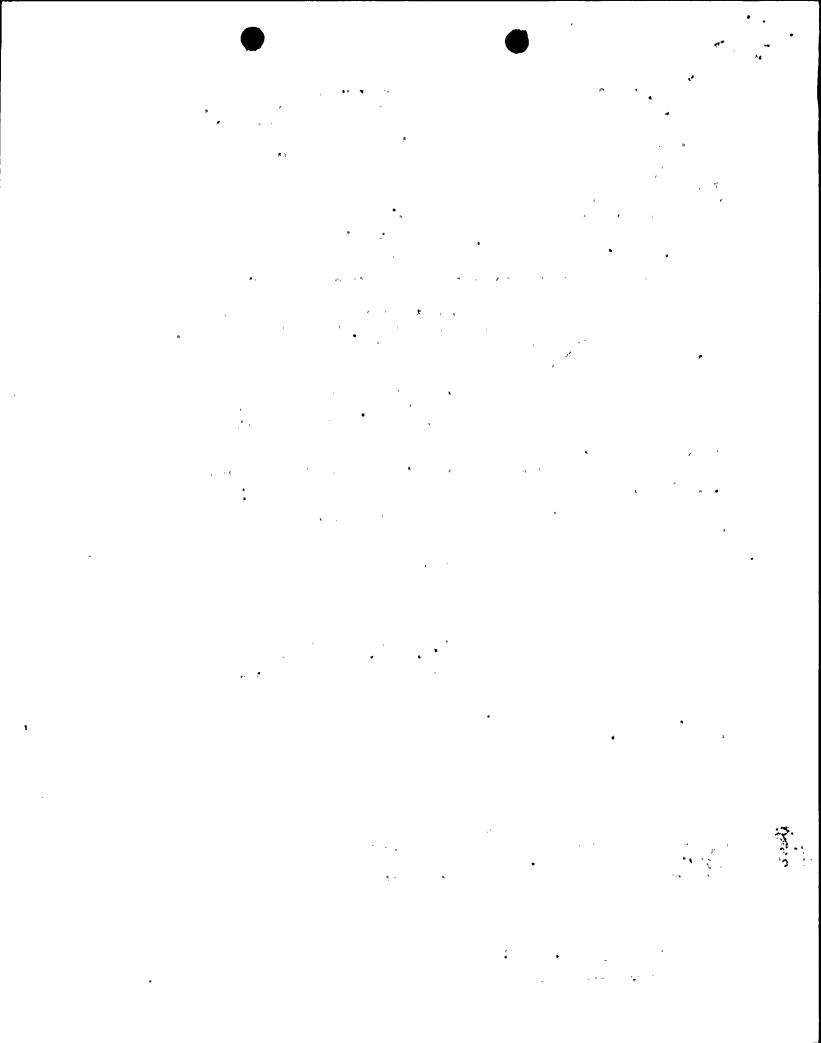
cc w/enclosure: See next page

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GBagchi 10/0/87 D;PD(H-; HBerkow Mr. C. O. Woody Florida Power & Light Company

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

Resident Inspector c/o U.S. NRC 7585 S. Hwy A1A Jensen Beach, Florida 34957

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St. Lucie Plant

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

Regional Administrator, Region II U.S. Nuclear Regulatory Commission Executive Director for Operations 101 Marietta Street N.W., Suite 2900 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 3.7.1.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 POSBUKF 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?