

Mr. Thomas F. Plunkett
President, Nuclear Division
Florida Power and Light Company
Post Office Box 14000
Juno Beach, Florida 33408-0420

October 15, 1996

Dear Mr. Plunkett:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION - PRESSURIZED THERMAL SHOCK
EVALUATION - ST. LUCIE, UNITS 1 AND 2 (TAC NOS. M95484 AND M95485)

By letter dated May 14, 1996, Florida Power and Light Company (FPL) submitted a pressurized thermal shock (PTS) evaluation for St. Lucie Units 1 and 2. The NRC staff has identified additional information which is needed to complete its assessment of this evaluation. The specific questions are listed on the enclosed Request for Additional Information (RAI). A response to this RAI is requested within 30 days of receipt to support completion of our review by the date requested by FPL.

The FPL submittal included CEQG report CEN-405-P which presented two approaches for CE owners to apply Regulatory Position 2.1 of Regulatory Guide 1.99, Revision 2 when the limiting material of the vessel is not in the surveillance program. One of these approaches, the Margin Reduction Approach (MRA), would use the plant specific surveillance data to reduce the margin to be added to the predicted temperature shift. The MRA does not give a sound technical basis for the proposed reduction factors, especially since the limiting material is not present in the subject or a host reactor vessel. In addition, the MRA proposes a methodology that is not in accordance with the pressurized thermal shock rule. Therefore, the staff intends to conduct no further review on Section VI. of CEN-405-P which describes the MRA.

If you have questions concerning this issue, please contact me at (301) 415-1495.

Sincerely,

Original signed by

Leonard A. Wiens, Senior Project Manager
Project Directorate II-3
Division of Reactor Projects-I/II
Office of Nuclear Reactor Regulation

Docket No. 50-335
and 50-389

Enclosure: Request for Additional Information

cc w/enclosure: See next page

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REQUEST FOR ADDITIONAL INFORMATION

The staff requires additional information in order to complete its review of the Florida Power and Light pressurized thermal shock (PTS) evaluation. The submittal consisted of three parts:

- "St. Lucie Unit 1 Reactor Vessel Beltline Materials End of License Assessment of RT_{PTS}"
- "St. Lucie Unit 2 Reactor Vessel Beltline Materials End of License Assessment of RT_{PTS}"
- Proprietary and non-proprietary copies of the Combustion Engineering Owner's Group (CEOG) report CEN-405-P, Revision 3, "Application of Reactor Vessel Surveillance Data for Embrittlement Management"

Responses to the following questions are necessary to complete the staff review of the submittal.

- 1) Provide the actual cold leg temperatures for each cycle for both St. Lucie Unit 1 (SL-1) and Beaver Valley Unit 1 (BV-1) in support of the integrated surveillance approach. Page A-7 of the submittal discusses "nominal inlet temperatures" as listed in the UFSAR and "assumed cold leg temperatures." The actual cold leg temperatures for each cycle are needed for both units in order for the staff to determine the applicability of the BV-1 surveillance data to the SL-1 reactor vessel.
- 2) Determine if there are other initial test data (Charpy, Drop Weight and RT_{NDT(U)} values) for heats 305424, 90136, 83642, 83637 and 3P7317. Provide a listing of each initial reference temperature value, including the source of the data. If other data are available, justify the initial reference temperature values that appear in Table 4 (page A-14) and Table 2 (page B-5) of the submittal for the heats listed above.
- 3) Provide the neutron flux for the BV-1 surveillance capsule and the SL-1 vessel to clarify the conclusion that the neutron flux values are within an order of magnitude of each other.
- 4) Provide details on the equivalence of the BV-1 neutron spectra to that of SL-1 to quantify the conclusion on page A-6 of the submittal that "the irradiation behavior of the BV-1 surveillance specimen [is] therefore comparable to the SL-1 limiting weld material."

ENCLOSURE

Mr. T. F. Plunkett
Florida Power and Light Company

ST. LUCIE PLANT

cc:

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