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ACCESSION NBR: 8307120469. DOC. DATE: 83/07/06. NOTARIZED: NO. DOCKET #  
 FACIL: 50-250 Turkey Point Plant, Unit 3, Florida Power and Light C 05000250  
 50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251  
 AUTH. NAME: UHRIG, R.E. AUTHOR AFFILIATION: Florida Power & Light Co.  
 RECIP. NAME: EISENHUT, D.G. RECIPIENT AFFILIATION: Division of Licensing

SUBJECT: Requests meeting to discuss future submittal of Tech Specs & supporting safety analysis to resolve pressurized thermal shock issues for Cycle 9 licensing. Update meeting requested first wk in Aug.

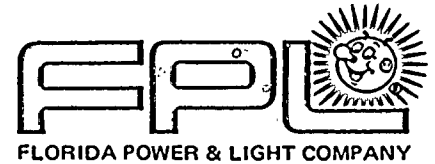
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 TITLE: OR Submittal: Thermal Shock to Reactor Vessel

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July 6, 1983  
L-83-393

Office of Nuclear Reactor Regulation  
Attention: Mr. Darrell G. Eisenhut, Director  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Dear Mr. Eisenhut:

Re: Turkey Point Units 3 & 4  
Docket Nos. 50-250, 50-251  
Pressurized Thermal Shock

In our letter of March 25, 1983 (Reference 1), we submitted the information presented in our January 26, 1983 meeting regarding our plans and schedules to resolve Pressurized Thermal Shock (PTS) issues at Turkey Point Units 3&4. As a follow-up to that meeting and subsequent submittal, FPL is requesting a meeting with the NRC Staff for the purpose of discussing the following two topics:

1. Turkey Point Unit 3 Cycle 9 Licensing

FPL submitted (Reference 2) a Safety Evaluation and associated Technical Specification changes to support the planned fuel design change from the Westinghouse Low Parasitic 15X15 (LOPAR) Fuel Assembly to the 15X15 Optimized Fuel Assembly (OFA) and use of the new Westinghouse Wet Annular Burnable Absorber (WABA) Rods for the Turkey Point Units. The first planned use of the OFA design and WABA rods is expected to be for Turkey Point Unit 3 Cycle 9.

As discussed in Reference 1, an increase in the  $F_{\Delta H}$  limit of the Technical Specification is required to achieve the desired flux reduction in Turkey Point Unit 3, Cycle 9. In addition, to achieve the higher  $F_{\Delta H}$ , without a power limiting reduction in the  $F_q$  limit, approval of the improved LOCA Reflood Model (BART) was requested. FPL will be submitting for NRC approval, Technical Specifications and supporting Safety Analyses to raise the  $F_{\Delta H}$  Technical Specification Limit and a new LOCA analysis for both Turkey Point Units. The reflood portion of the large break LOCA will be performed with the BART code, as described in WCAP-9561 (Reference 3). Approval of these submittals is required prior to startup from refueling.

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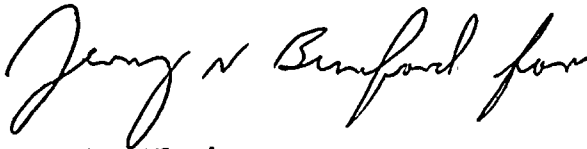


## 2. Pressurized Thermal Shock Update

As discussed in Reference 1, FPL is implementing a comprehensive program to address the Pressurized Thermal Shock issue for Turkey Point Units 3 and 4. Current activities are focused on near term flux reduction, fluence evaluations and plant specific transient analyses. Flux reduction results achieved with the Turkey Point Unit 3 Cycle 9 design and preliminary results for Turkey Point Unit 4 Cycle 10 will be described. In addition, an update on inhouse fluence evaluations and plant specific transient analyses will also be provided.

Turkey Point Unit 3 Cycle 9 is currently scheduled to startup on ~December 1, 1983 with Turkey Point Unit 4 Cycle 10 following in the Spring of 1984. With the level of effort underway to implement the PTS action plan, an update meeting is requested for the first week of August, 1983. As a follow-up to this letter, FPL will provide a preliminary meeting agenda after the date for the meeting has been set. We appreciate the opportunity to continue our dialogue with your staff and look forward to presenting them with an update of our PTS program.

Very truly yours,



Robert E. Uhrig  
Vice President  
Advanced Systems & Technology

REU/DCP/jc

cc: J. P. O'Reilly, Region II  
Harold F. Reis, Esquire



- References:
- 1) FPL letter L-83-180; R. E. Uhrig (FPL) to S. A. Varga (NRC) "Turkey Point Units 3 & 4, Docket Nos. 50-250, 50-251 Pressurized Thermal Shock"; dated March 25, 1983.
  - 2) FPL letter L-83-344; R. E. Uhrig (FPL) to D. G. Eisenhut (NRC) "Turkey Point Units 3 & 4, Docket Nos. 50-250 & 50-251 Proposed License Amendment, Optimized Fuel Assembly and Wet Annular Burnable Absorber," dated June 3, 1983.
  - 3) WCAP-9561; BART-A1: A Computer Code for Best Estimate Analysis of Reflood Transients, January 1980..

