

**Florida  
Power**  
CORPORATION

October 31, 1988  
3F1088-21

U. S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, D. C. 20555

Subject: Crystal River Unit 3  
Docket No. 50-302  
Operating License No. DPR-72  
Ultimate Heat Sink Temperature  
Supplement 1 to Technical Specification  
Change Request No. 158, Rev. 1

Dear Sir:

Florida Power Corporation (FPC) is submitting this as a correction to the analysis provided to support Technical Specification Change Request (TSCRN) 158, Rev. 1. TSCRN 158, Rev. 1 was submitted in the FPC letter (3F0888-01) dated August 25, 1988

This letter is to provide additional information about an equipment line-up which is incorrectly reflected in the TSCRN 158, Rev. 1 submittal. Crystal River Unit 3 (CR-3) operates with Makeup Pump MUP-1A aligned to the nuclear Services Closed Cycle Cooling System (SW). The analysis provided with TSCRN 158, Rev. 1 assumed MUP-1A was aligned to receive cooling water flow from the Decay Heat Closed Cycle Cooling System (DC) Loop A.

FPC has assessed the thermal and hydraulic impact of cooling MUP-1A with the SW System versus the DC system. The thermal and hydraulic demands on DC System Loop A are reduced with the realignment of MUP-1A to the SW System, thus DC System performance is enhanced. The minor difference between the hydraulic model created in the analysis submitted by TSCRN 158, Rev. 1, and the present line-up in use at CR-3 will have a negligible impact on the SW System thermal and hydraulic performance. The SW System flow rate is increased by only 75 gpm and there is no increase in the system heat load (MUP-1A is normally idle). During emergency operation with MUP-1A operating, the SW System temperature will increase less than 1°F above the value of 108°F reported in TSCRN 158, Rev. 1.

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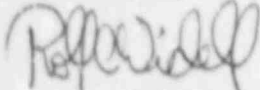
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The SW and the DC Systems were balanced to ensure each safety-related component received its design cooling water flow rate when aligned for emergency operation. MUP-1A was aligned to receive cooling flow from the SW System during the SW System balancing, ensuring cooling water requirements were met.

As FPC stated in our letter (3F0588-06) dated May 9, 1988, the worst case analyses established peak temperatures of 110°F and 120°F for the SW and DC Systems, respectively, with a Nuclear Services and Decay Heat Sea Water System (RW) temperature of 95°F. The realignment of MUP-1A to the SW System does not change that conclusion. The information provided by this letter does not change any of the Sholly Evaluations in our change request.

Sincerely,



R. C. Widell

RCW/JWT/sdr

xc: Regional Administrator, Region II

Senior Resident Inspector