



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

June 17, 1988

Docket No. 50-302

Mr. W. S. Wilgus
Vice President, Nuclear Operations
Florida Power Corporation
ATTN: Manager, Nuclear Licensing
P. O. Box 219
Crystal River, Florida 32629

Dear Mr. Wilgus:

SUBJECT: CRYSTAL RIVER UNIT 3 - ULTIMATE HEAT SINK TEMPERATURE
(TAC NO. 66397)

By letter dated November 16, 1987, Florida Power Corporation (FPC) submitted Technical Specification Change Request No. 158, which proposed changing the maximum ultimate heating sink (UHS) temperature to 85°F at Crystal River Unit 3 (CR-3). FPC committed to comply with the proposed Technical Specification (TS) until it was issued. The letter further noted that analyses were being performed to justify UHS temperatures higher than that proposed in the TS. Because of the expected change, no action has been taken on the proposed TS.

Your letter of May 9, 1988 stated that although the highest UHS temperature recorded at CR-3 is 90.5°F, a reanalysis of the cooling capability of the nuclear service and decay heat seawater (RW) system which supplies water directly from the UHS has been performed assuming a UHS temperature of 95°F. With this RW/UHS temperature, corresponding peak temperatures of 110°F and 120°F were established in the nuclear services closed cycle cooling (SW) system and decay heat closed cycle cooling (DC) system, respectively, which are served by the RW system. It has been verified with the equipment vendors that components in the SW and DC systems can provide design heat removal capabilities and are qualified to perform their safety function at these higher temperatures. However, even though the control complex water chillers are capable of performing their safety function at the higher RW temperature, a modification will be installed in the future to ensure maintaining stable chiller operation. Your letter also stated that an implementation date will be provided. This letter further committed to operate CR-3 with a maximum UHS temperature of 92°F. If the UHS temperature were to exceed that figure, the action statement of TS 3.7.5 would be entered. Finally, the letter stated that testing to verify that the performance of service water heat exchangers is within the assumptions used in the thermal analysis will be performed by July 18, 1988.

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Mr. W. S. Wilgus

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Based on the above, we conclude that operation of CR-3 in accordance with FPC's commitments in its letter of May 9, 1988 (i.e., maximum UHS temperature of 92°F) is acceptable. You should submit a revised TS change request, and a description of your thermal analysis and heat exchanger test results, as soon as possible in order to provide appropriate limits on plant operation as part of the operating license.

Sincerely,

Original signed by

Harley Silver, Project Manager
Project Directorate II-2
Division of Reactor Projects-I/II
Office of Nuclear Reactor Regulation


cc: See next page

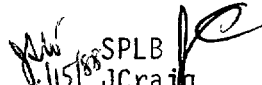
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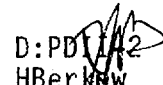
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Mr. W. S. Wilgus
Florida Power Corporation

Crystal River Unit No. 3 Nuclear
Generating Plant

cc:

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