

**Florida
Power**
CORPORATION

August 31, 1983
3F-0883-22

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Crystal River Unit 3
Docket No. 50-302
Operating License No. DPR-72
Submittal of Information Concerning the 316 Study

Dear Mr. Denton:

Florida Power Corporation submits the attached information in accordance with Environmental Technical Specification, Part II, Section 3.1. If there are any questions concerning this information, please contact my office.

Sincerely,

G. R. Westafer
Manager
Nuclear Operations Licensing and Fuel Management

Attachment

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August 25, 1983

Mr. Paul J. Traina, Director
Water Management Division
U. S. Environmental Protection Agency
345 Courtland Street N.E.
Atlanta, GA 30365

Subject: Crystal River 316 Study

Dear Mr. Traina:

As you are aware, the Crystal River 316 Study has been underway since early June. One component of this program involves the placement of 72 thermographs at 51 stations throughout the study area. These instruments are retrieved, cleaned, and re-installed on a monthly basis.

Return of thermograph data for the months of June and July was approximately 80 percent. Data was lost both because some thermographs could not be found and because others had leaked and were inoperable. Stations which have experienced data loss are as follows:

<u>Month</u>	<u>Thermographs Lost</u>	<u>Thermographs Flooded</u>
June	17S,17B,23B,25S,29	15,23S,38B,43B,46S
July	9,25S,32S,32B,40 44S,44B,46S,46B,51	6B,11B,25B,39B,48B

Examination of instrument losses and mechanical failures did not result in any general pattern to explain the problems or any obvious remedies to avoid them in the future. However, every effort is being made to improve the rate of data return. For example, the method of securing the thermographs and their floats has been improved, and we are working with the local press to publicize the study, its importance, and the fact that there is a reward for the return of lost instruments. A sign on each unit gives our consultant's telephone number and explains that a reward is being offered for the return of the thermograph.

Extra care was given to preparing the units and to tending those deployed during the July monitoring period. However, no improvement in performance was noted. We are in contact with the thermograph manufacturer, Ryan Instruments, Inc., to get its recommendations for stopping the leakage

Mr. Paul J. Traina

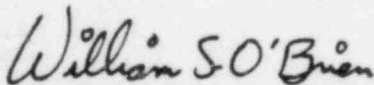
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problem. We are confident that improvements can be made in this area. In addition, the supply of backup units will be increased to assure that working units are always available.

At present, we do not believe that the loss of thermograph data is acute, since this data serves primarily as a backup to the weekly synoptic temperature surveys. However, we are not satisfied with an 80% retrieval rate. Therefore, we will continue to work toward resolution of this problem. Florida Power would welcome any insight which EPA could provide based on its past experience. Questions or comments concerning this matter should be addressed to Mr. Paul Behrens at (813) 866-5521.

Sincerely,



William S. O'Brien
Director
Environmental & Licensing Affairs

WSO/md

cc: J. B. Subramani
D. B. Hicks
C. Kaplan