



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

February 8, 1979

NRC PDR

Docket No. 50-302

Mr. W. P. Stewart  
Director, Power Production  
Florida Power Corporation  
P. O. Box 14042, Mail Stop C-4  
St. Petersburg, Florida 33733

Dear Mr. Stewart:

We have reviewed your submittal of January 12, 1979 regarding the proposed Long Term ECCS Modification for the Small Break LOCA for Crystal River Unit 3. The additional information identified in the enclosure is necessary to complete our review. You are requested to provide this information within 20 days from the date of this letter.

Sincerely,

A handwritten signature in cursive script, appearing to read "Robert W. Reid".

Robert W. Reid, Chief  
Operating Reactors Branch #4  
Division of Operating Reactors

Enclosure:  
Request for Additional  
Information

cc w/enclosure:  
See next page

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Florida Power Corporation

cc: Mr. S. A. Brandimore  
Vice President and General  
Counsel  
P. O. Box 14042  
St. Petersburg, Florida 33733

Mr. Robert B. Borsum  
Babcock & Wilcox  
Nuclear Power Generation Division  
Suite 420, 7735 Old Georgetown Road  
Bethesda, Maryland 20014

Crystal River Public Library  
Crystal River, Florida 32629

Mr. Jack Shreve  
Office of the Public Counsel  
Room 4, Holland Building  
Tallahassee, Florida 32304

Request for Additional Information

1. Please document the qualifications to which your proposed modification will be designed and tested. You should cite codes and standards where applicable. Specific reference to sections of your FSAR is acceptable.
2. Active Component Failures 1, 2 and 4 require a different operator action than 3. Will the operator take the same action if any of these four failures occur or must he evaluate the cause of loss of high pressure injection (HPI) flow before taking action? If the operator takes the same action in all cases describe what that is and demonstrate that correcting for an Active Component Failure that may not exist does not cause problems. What indications are available for the operator to assess the Active Component Failure.
3. Is it necessary that any flow paths in the makeup and purification system be isolated after a LOCA to insure adequate HPI flow? If so, provide assurance that this isolation will occur for the postulated small break LOCA, concurrent loss of offsite power and a single failure.
4. Address the possibility of the HPI pumps exceeding runout conditions when the system is in its minimum resistance configuration (apparently 4 HPI lines with 1 pump).
5. You are requested to provide a commitment to verify, by measurement, HPI flow rates prior to plant startup or within seven days after the modifications have been completed, whichever occurs first.
6. You indicated an installation schedule of '31 weeks from NRC acceptance' in your letter of November 17, 1978 and again on January 12, 1979. Your current exemption from 10 CFR 50.46(a) regarding this matter terminates at your next refueling outage. Therefore, you should make every effort to install an approved modification by that time.