Florida
Power
CORPORATION
Crystal River Unit 3
Docket No. 50-302

50-302

May 13, 1993
3F0593-11

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

Subject: Post Accident Sampling System Modification

Dear Sir:

The purpose of this correspondence is to inform the NRC of Florida Power Corporation's (FPC's) plan and schedule for upgrading the Post Accident Sampling System (PASS). The PASS has experienced various operational reliability problems since the system was placed in service in 1983. FPC conducted an extensive performance review of the reactor coolant portion of PASS in an effort to determine what design and operational changes are needed to improve system reliability. Several significant design enhancements were identified which resulted in a project to replace a portion of the existing reactor coolant PASS utilizing current technology components with proven performance. This includes replacement of the hydrogen analyzer, the pH analyzer, the boron analyzer, and associated circuits, piping and pumps.

These system modifications will require all or portions of the PASS to be out of service for approximately six weeks. It was determined that these modifications would best be done while the plant is operating to improve system reliability as soon as possible, and to minimize scheduled outage activities.

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The modification package and associated components necessary for the PASS upgrade are expected to be available by August, 1993. The modifications to the PASS are presently scheduled to be started in mid to late August, 1993, and completed by October, 1993. There is a one week period in this schedule where the PASS automatic and manual sample capabilities are both non-functional. At other times, the manual grab sample capability remains available should the system be needed. Attached is the plan of activities and times for each phase of the project which was developed to minimize system unavailability.

The short duration during which the PASS automatic and manual sampling capabilities are not available will be offset by the improved system performance once the modifications are complete. This project affects only the reactor coolant portion of the PASS. The containment and effluent post accident sampling systems will be unaffected by these modifications.

Sincerely,

P. M. Beard, Jr.
Senior Vice President
Nuclear Operations

REF:PMB

Attachment

xc: Regional Administrator, Region II
NRR Project Manager
Senior Resident Inspector

PASS MODIFICATION PROJECT SCHEDULE

ACTIVITY	DURATION	PASS FUNCTION OUT-OF-SERVICE	ALTERNATE CAPABILITY
I. Install Panels - PASS Mimic Pnl - Power Panels - Boron PreAmp - junction Boxes - Cal. Panel - pH PreAmp Box	1 Week	Reactor Coolant Automatic Sample Capability	Manual Grab Sample
II. Conduit Work - Re-route conduits - Cable pulls - Valve replacement - Piping work - Power cable work - Remove phase separator - System press. test	1 Week	Reactor Coolant Automatic and Grab Sample Capability	None
III. Panels - install drain tank - Install H_2 / pH panel - Install pump panel - Install Boron panel - Install Boron sample chamber	1 Week	Reactor Coolant Automatic Sample Capability	Manual Grab Sample
IV. Conduit/Cable - Install conduit and cable to: H_2/pH panel Boron panel Drain tank pump panel pH preamp Boron panel Cal. panel	1 Week	Reactor Coolant Automatic Sample Capability	Manual Grab Sample
V. Tubing - Install tubing to all panels,pumps and tanks - Pressure test	1 Week	Reactor Coolant Automatic Sample Capability	Manual Grab Sample
VI. Testing - Electrical - Calibration - Operation of system	1 Week	Reactor Coolant Automatic Sample Capability	Manual Grab Sample