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Docket No. 50-302

Mr. Walter S. Wilgus
Vice President, Nuclear Operations
Florida Power Corporation
ATTN: Manager, Nuclear Licensing
& Fuel Management
P. O. Box 14042; M.A.C. H-2
St. Petersburg, Florida 33733

Dear Mr. Wilgus:

SUBJECT: CRYSTAL RIVER UNIT 3 - REMOVAL OF ES SIGNAL FROM
MAKEUP ISOLATION VALVE MUV-64

Florida Power Corporation (FPC) by letter dated October 31, 1983, presented several alternatives regarding the design of a planned modification to the Crystal River Unit 3 Engineered Safeguards (ES) actuation logic circuitry. Attachment A to that letter provided the basis for removing ES signals from a number of valves which presently receive an actuation signal from the ES system. One of those valves is makeup tank isolation valve MUV-64. Your October 31, 1983 letter also requested NRC conceptual approval to remove the ES actuation signals from those valves discussed in Attachment A to that letter. The staff responded with a number of comments on the October 31, 1983 proposal which were sent to FPC by letter dated February 21, 1984. Among our comments were concerns regarding the possible effects of mixing low concentration borated water in the BWST during the period of time it may take to manually shut MUV-64, since it would no longer be automatically isolated. Our comment stated that we require a minimum of 10 minutes to find manual operator action acceptable to mitigate unacceptable consequences of an event.

The FPC response to our comments, dated May 1, 1984, has been received and reviewed by the staff. The staff has completed evaluating your proposal to remove the ES actuation signal from MUV-64. Your response addressed our concerns regarding MUV-64, which include the time required for operator action (5 minutes) to close the valve and on the effects of continuing mixing of low concentration borated water from the make-up tank with the water from the BWST. The submittal has clarified that if action is not taken within 5 minutes to establish suction from the BWST, the normally running make-up pump and the HPI pump on that train will be damaged. However, the other standby HPI/make-up pump which also starts on an ES actuation signal will actuate and draw water only from the BWST. Based on your submittals, we conclude that removal of the automatic closure signal from the make-up tank isolation valve (MUV-64), will not cause unacceptable reactor coolant boron

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dilution during emergencies prior to the manual isolation of the valve. We further conclude that because a redundant HPI pump will be automatically available if the operating pumps were to fail due to loss of suction, the proposed manual action in less than 10 minutes is not unacceptable. Should you have any questions on this matter, please contact the NRC Project Manager assigned to Crystal River, Unit 3.

Sincerely,

ORIGINAL SIGNED BY

John P. Stolz, Chief
Operating Reactors Branch #4
Division of Licensing

Enclosure:
Safety Evaluation

cc w/enclosure:
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Crystal River Unit No. 3
Florida Power Corporation

50-302

cc w/enclosure(s):

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