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APR 5 1976

Docket No. 50-302

APPLICANT: Florida Power Corporation

FACILITY: Crystal River, Unit 3

SUMMARY OF MEETING WITH FLORIDA POWER CORPORATION CONCERNING DEFICIENCIES IN THE SURVEILLANCE SPECIMEN HOLDER TUBES

On April 2, 1976, The Florida Power Corporation (FPC) and the Babcock & Wilcox Company (B&W) met with the NRC staff in Bethesda, Maryland. An attendance list is enclosed.

BACKGROUND

The Crystal River Nuclear Plant, Unit 3 (CR-3) is designed to the Oconee class B&W MSSS. This design includes three reactor vessel surveillance capsule holder tubes located adjacent to the reactor vessel inside wall. Each holder tube contains two surveillance capsules which hold specimens to be irradiated in accordance with the surveillance program described in Appendix H to 10 CFR Part 50.

On February 29, 1976, when removing the 1st cycle capsule trains at Three Mile Island, Unit 1, about 40 inches of a section of the holder tube came out with the train. Further inspection of the tube indicated obstructions at approximately six feet. The incident was reported to NRC, L&R (Reg. 1).

Since the 1st reportable incident, other Oconee Class Operating Plants have observed damage or excessive wear within the holder tubes. The damage is now believed to be caused by flow-induced relative motion between the holder tubes and various components of the capsule train which positions and holds the surveillance capsules in place during reactor operations.

B&W CORRECTIVE ACTIONS

POOR ORIGINAL

B&W representatives stated that design and engineering modifications are underway to determine the appropriate corrective actions. B&W will test a new design for the surveillance program during the hot-functional tests for Davis-Besse, Unit 1 (DB-1). The DB-1 hot-functional tests are presently scheduled to commence in July 1976. B&W will present the results of the test and the new design for NRC evaluation and approval.

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IMPACT ON CR-3

B&W estimates final approval of the new design will not be completed or have received NRC approval at the time of CR-3 fuel loading, presently scheduled to start by about July 22, 1976.

The FPC and B&W requested that they be allowed to remove the surveillance capsules and push rod assemblies during the 1st cycle for CR-3. The holder tubes would be secured from motion by a spring-loaded retaining device which would be loaded into the upper end of each holder tube.

FPC stated that failure of the presently designed surveillance specimen holder tube during operation could cause damage to the reactor. Therefore, FPC will not use the present design and will not install the new design in CR-3 until such time as it has been tested by B&W and evaluated and approved by NRC.

AVAILABLE SPECIMEN DATA FOR CYCLE 1

The staff stated that the available data for Cycle 1 of Scovese Class reactor specimens irradiated to date provides sufficient effective full power years of actual exposure to allow CR-3 to operate without the Cycle 1 surveillance program. Removal of the reactor vessel surveillance capsules during Cycle No. 1 will not adversely affect the CR-3 surveillance program. A revised schedule will be required for the CR-3 surveillance program as specified in the Standard Technical Specifications.

CONCLUSIONS

Since B&W will present the generic aspects and their proposed design modifications and tests at a meeting with the staff scheduled for April 8, 1976, the staff deferred from taking any formal action concerning CR-3 at this meeting. FPC was told that NRC requirements for the CR-3 Surveillance Program would be developed following the April 8, 1976 meeting between B&W and NRC.

Original signed by
 Leon B. Engle
 Leon Engle, Project Manager
 Light Water Reactors Branch 4
 Division of Project Management

Enclosure:
 List of Attendees

POOR ORIGINAL

cc: Mr. J. T. Rodgers
 Mr. S. A. Brandimore

OFFICE →	LWR 4	LWR 4			
SURNAME →	LEngle <i>Engle</i>	WRButler			
DATE →	4/5/76	4/5/76			

ENCLOSURE

MEETING HELD ON APRIL 2, 1976 WITH
THE FLORIDA POWER CORPORATION AND
THE BABCOCK & WILCOX COMPANY

CRYSTAL RIVER, UNIT 3

LIST OF ATTENDEES

FLORIDA POWER CORPORATION

J. Alberdi
J. Rodgers

BABCOCK & WILCOX COMPANY

C. Barksdale
W. Keyworth
H. Palme

NRC - STAFF

M. Bolotsky, SS
L. Engle, PM
R. Gamble, OR
W. Hazelton, OR
K. Foge, SS
R. Klecker, OR
G. Millman, SD
W. Ross, OR
K. Seyfrit, OI&E
G. Walton, I&E (Reg 1)