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The Southern Electric System

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March 7, 1990

U.S. Nuclear Regulatory Commission
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Washington, D.C. 20555

PLANT HATCH - UNIT 2
NRC DOCKET 50-366
OPERATING LICENSE NPF-5
INSERVICE INSPECTION ASSOCIATED WITH THE
FALL 1989 MAINTENANCE/REFUELING OUTAGE

Gentlemen:

Pursuant to the requirements of Article IWA-6000 of the ASME Code, Section XI, enclosed for your review is the Owner's Data Report for Inservice Inspection (Form NIS-1) for the inservice inspection activities conducted at Plant Hatch Unit 2 during the Fall 1989 maintenance/refueling outage. The Owner's Data Report is included as Enclosure 1. The outage marked the end of the first 10-year ISI inspection interval for Unit 2.

Also, pursuant to NRC NUREG-0619, subsection 4.4.3.1(2), Georgia Power Company (GPC), hereby submits information concerning the nondestructive examination (NDE) of the feedwater nozzle, safe end, and control rod drive welds performed during the outage. No new reportable indications were detected. Enclosure 1 provides a summary of the examination results under "Class 1 Components" and "Class 2 Components." Details on startup/shutdown cycles, NDE methods, and effects on prediction of future cracking tendencies are presented in Enclosure 2.

Georgia Power Company has also performed ultrasonic examination of austenitic steel piping welds in the primary coolant pressure boundary per Generic Letter 88-01 and NUREG 0313, Revision 2. Results are presented in Enclosure 1 under "Class 1 Components." No new reportable indications were detected in these welds.

Based on commitments to the NRC related to Generic Letter 88-01, seven (7) welds in the Class 3 portion of the reactor water cleanup (RWC) system were ultrasonically examined. Georgia Power Company and the NRC met and corresponded several times during 1989 on this issue. A July 24, 1989 letter from the NRC documented our agreement to examine the seven welds in this non-safety related piping. The exams were performed early in the

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outage and discussed during a conference call with the NRC on October 2, 1989, and documented in a letter from GPC to the NRC (HL-744) dated October 16, 1989. No rejectable indications were detected; however, a combination surface/interior indication in RWCW weld number 11 was deemed significant enough to warrant investigation. A portion of the pipe was cut from the system and sent for metallurgical examination. Enclosure 3 contains a copy of the evaluation, which concluded the weld defect was caused by lack of fusion, not intergranular stress corrosion cracking (IGSCC). In our October 16, 1989 letter to the NRC, GPC had committed to re-examine weld No. 11 during the next Unit 2 outage. However, since the weld was cut out of the system, this commitment no longer applies.

Georgia Power Company performs many augmented inspections which are not specifically required by the ASME Section XI Code. The results of these inspections are described in the NIS-1 report. In addition to the IGSCC inspections (primary pressure boundary and non-safety RWCW piping), and the NUREG-0619 inspections discussed above, GPC performed the following:

- o The core spray sparger and associated piping was visually examined per Bulletin 80-13. No reportable indications were detected.
- o All thirty-six (36) shroud head bolts were ultrasonically examined per GE SIL-433. Two of the bolts had been previously noted as having minor indications, which had been deemed acceptable. No additional indications were detected during the exam this outage. The minor indications noted previously could not be reproduced.
- o During the previous Unit 2 outage, a visual exam of the jet pump mixing nozzles revealed evidence of erosion in the throat area. The erosion had been evaluated and deemed acceptable by GE. Visual exams this outage revealed no significant changes in the throat area erosion.
- o All twenty (20) jet pump hold down beams were replaced with beams made of improved material. This new material is considered a permanent resolution of IGSCC in hold down beams by NUREG/CR-3052, and will eliminate the need to perform ultrasonic testing each outage.
- o Ultrasonic thickness measurements were performed on selected components in the extraction steam and condensate/feedwater system piping per GPC's ongoing erosion/corrosion program.
- o Eddy current testing was performed on several feedwater heaters, the main generator stator water coolers, and the hydrogen coolers.

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- o Non-code required surface exams were conducted on selected welds in the reactor core isolation cooling (RCIC), emergency core cooling (ECC), control rod drive (CRD) and RWCU systems. Surface and/or visual exams were also performed on sixty-six small bore (less than or equal to 2 inches) pipe line in the reactor coolant pressure boundary.

If you have any questions in this regard, please contact this office at any time.

Sincerely,


W. G. Hairston, III

GKM/eb

Enclosures:

1. Owner's Data Report for Inservice Inspection -
Edwin I. Hatch Nuclear Plant Unit 2
September 1989 - December 1989.
2. Non Destructive Examinations of Feedwater
Nozzle, Safe End, and Control Rod Return
Line Welds During the 1989 Maintenance/
Refueling Outage.
3. GE Report No. 89-178-021, "Metallurgical
Evaluation of a Four-Inch Pipe-to-Elbow
Weld from Plant Hatch Unit 2",
November 1989.

c: Georgia Power Company
Mr. H. C. Nix, General Manager - Nuclear Plant
Mr. J. D. Heidt, Manager Engineering and Licensing - Hatch
GO-NORMS

U.S. Nuclear Regulatory Commission, Washington, D.C.
Mr. L. P. Crocker, Licensing Project Manager - Hatch

U.S. Nuclear Regulatory Commission, Region II
Mr. S. D. Ebnetter, Regional Administrator
Mr. J. E. Menning, Senior Resident Inspector - Hatch