UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA STREET, N.W.
ATLANTA, GEORGIA 30303

Report No.: 50-366/83-37

Licensee: Georgia Power Company
P. O. Box 4545
Atlanta, GA 30302

Docket No.: 50-366

License No.: NPF-5

Facility Name: E. I. Hatch

Inspection at Corporate Offices in Atlanta and at Hatch site near Baxley, GA

Inspector: C. R. McFarland — 1-10-84
C. R. McFarland — Date Signed

Approved by: C. M. Upright — 1-10-84
C. M. Upright, Section Chief — Date Signed
Engineering Program Branch
Division of Engineering and Operational Programs

SUMMARY

Inspection on December 8, and December 13-16, 1983

Areas Inspected

This routine, unannounced inspection involved 30 inspector-hours on site and at the corporate offices in the areas of preplanning for replacement of reactor recirculation piping and review of contractor's QA manual.

Results

Of the two areas inspected, no violations or deviations were identified.

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REPORT DETAILS

1. Persons Contacted

Licensee Employees

T. V. Green, Deputy Manager, Hatch
*C. T. Jones, Manager, Engineering
#R. G. Davis, Recirculation Project Manager
*A. W. Harrelson, Recirculation Project - Site Manager
#P. D. Rice, General Manager QA and Radiological Health & Safety
#E. J. Turner, Hatch QA Manager
*C. E. Belflower, QA Site Manager
G. C. Welch, QA Engineering Support Supervisor
*L. G. Byrnes, QA Engineer
*J. M. Watson, Recirculation Project QC Supervisor
C. R. Miles, Jr., QA Special Projects Assistant

Other Organizations

Newport News Industrical Corporation
F. D. Blake, Site Manager
*B. T. Watson, QA/QC Site Manager

NRC Resident Inspectors

R. Crlenjak
*P. Holmes-Ray

*Attended exit interview
#Contacted at Corporate Office on December 8, 1983

2. Exit Interview

The inspection scope and findings were summarized on December 16, 1983, with those persons indicated in paragraph 1 above. The licensee representatives acknowledged the inspection findings.

3. Licensee Action on Previous Enforcement Matters

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Preplanning of Complex Construction Activities (35053B)

The replacement of the reactor coolant pressure boundary piping at Plant Hatch was reviewed with project and quality assurance personnel at the corporate office on December 8, 1983, and at the Hatch site on December 13-16, 1983. The recirculation piping replacement has been discussed with the NRC in meetings in Atlanta, Georgia, on September 28, 1983, and at Bethesda, Maryland, on October 31, 1983, and in correspondence by the licensee dated November 7, 1983. The project is proceeding as planned for Hatch 2 except the outage start date is expected to be deferred from January 6, 1984, by about two weeks due to delays in shipping dates by the piping fabricators. No major pieces of piping have been received to date. The schedule is to be formally revised before December 31, 1983.

The general contractor, Newport News Industrial (NNI), is on site. The inspector reviewed the work scope and the quality assurance (QA) program with the NNI Site Manager and the QA/QC Site Manager and observed the NNI field engineering offices, the fabrication facilities, the welding qualification facility, and the training area. The inspector reviewed the NNI Nuclear Repair Quality Assurance Manual and representative supporting documentation (paragraph 6) as well the related QA activities for the licensee. The review indicates that the licensee's and his contractor's preplanning and procedures should provide adequate assurance of quality for the expected complexity of the work activity, including potential problems that may arise, and for the interfaces with concurrent work. Special training for craft and QC personnel is planned. Staffing plans for construction (modification) and QC personnel provide for coverage for the planned two shifts of ten hours per shift, six days a week work schedule. Equipment for automatic welding the field welds is on site and being used to train the welders. Timely technical assistance will be provided during the replacement program activity by onsite and corporate office licensee personnel, Southern Company Services (SCS), General Electric Company (GE), NNI, and Hydro Nuclear Services, Incorporated (HNS) as discussed in the licensee's letter to the NRC dated November 7, 1983. Provisions to identify QC inspection hold points are in the procedures and the weld listing record documentation. The licensee's QA surveillance of preplanning activities is conducted and controlled in an effective manner and will be a part of the total effort to assure that contractor preplanning activities are effective.

The inspector toured the existing and proposed work areas outside the reactor building and attended a portion of a training program for NNI QC inspectors.

Within this area, no violations or deviations were identified.

6. Review of QA Manual (35700B)

The inspector reviewed the NNI Nuclear Repair QA Manual, QAM-200, Revision D, for Repair, Replacement, Alterations or Modification of Components or Assemblies of Nuclear Power Plants In Accordance with National Board "NR" and ASME Section XI Requirements, relative to planned replacement

of reactor coolant boundary recirculation piping at Hatch 2. Relative to the work to be performed by NNI, QAM-200 provides procedures for organizational structure and QA personnel, quality requirements, work and quality inspection procedures, control of material, control of processes, corrective action, document control, test control and control of test equipment, quality records, and onsite design controls. QAM-200 provides procedures consistent with the format and requirements of 10 CFR 50 Appendix B, QA Criteria for Nuclear Power Plants and Fuel Reprocessing Plants. The inspector also reviewed the Standard Instruction (SI) procedures referenced in the various sections of QAM-200.

The NNI work as constructor will be controlled via Controlled Work Instruction (CWI) which controls all repair, replacement, alteration or modification processes and inspections of controlled material or items as discussed in Section 10 of QAM-200. Section 10 also provides measures to assure that processes such as welding and heat treating are controlled and are accomplished using qualified personnel under suitably controlled conditions. The CWI is prepared by NNI site engineering and includes step by step instructions for all operations including all special processes, QC inspections, hold points, and examination or tests. Working drawings, design specifications, and construction specifications are utilized by engineering to prepare of the CWI. The CWIs are approved by the licensee's staff and plant management. CWIs are similar to "travelers" used by other constructors or fabricators. Completed CWIs will be incorporated into the licensee's document control and records systems. The licensee's QA activities and plans were reviewed by the inspector. The licensee's Recirculation Piping Replacement Project (RPRP) staff will review all work activities and nonconforming items for reportability to the NRC as licensee identified items or as reportable under 10 CFR 21.

Within this area, no violations or deviations were identified.