



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

July 19, 1995

Tennessee Valley Authority
ATTN: Mr. Oliver D. Kingsley, Jr.
President, TVA Nuclear and
Chief Executive Officer
6A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

SUBJECT: MAINTENANCE AND ENGINEERING SUPPORT INSPECTION AT THE WATTS BAR
NUCLEAR PLANT, UNIT 1 (NRC INSPECTION REPORT NO. 50-390/95-202)

Dear Mr. Kingsley:

This letter transmits the report of a maintenance and engineering support inspection by the Special Inspection Branch of the Office of Nuclear Reactor Regulation between May 22 and June 9, 1995. The inspection involved activities authorized by Construction Permit No. CPPR-91 for the Watts Bar Nuclear Plant, Unit 1. At the exit meeting on June 16, 1995, the inspection team leader discussed the inspection findings with your staff.

The inspection team evaluated the implementation of the maintenance programs and the engineering support to maintenance and assessed their adequacy to support plant operations. The team reviewed samples of such documents as maintenance work packages, design change packages, temporary alterations, site standard practices, self-assessment reports, and maintenance records and databases. The team interviewed system engineers, maintenance supervisors, and plant staff, and also observed maintenance work in progress at the time of the inspection.

The team determined that you had established adequate programs and procedures to perform preventive and corrective maintenance activities and were implementing the maintenance process in a manner adequate to support plant operations. The staffing of the maintenance organization was sufficient, and had adequate operating plant experience. The team concluded that the cleanliness and housekeeping was good. The access to areas that have been turned over to the operations department was well controlled, and housekeeping in these areas was good. The lubrication control program was good, and it was generally implemented adequately. A comprehensive system engineering program had been established, and the system engineers had commenced implementing the program requirements on systems turned over to operations in a manner adequate to support plant operations.

However, the team noted some deficiencies in the implementation of the maintenance programs and procedures; these are described in the report. Specific deficiencies included the following: (1) appropriate design documents were not issued and design control measures were not implemented for field

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O.D. Kingsley

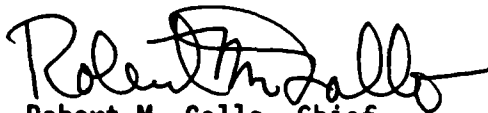
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modifications to the actuator housing of two motor operated valves and for calibration of standby diesel generator speed sensing relays; (2) work instructions did not consider the vendor requirements for the oil level gage for the turbine driven auxiliary feedwater pump and did not specify correct acceptance criteria for tripping time for 6.9kV circuit breakers in shutdown boards; (3) a technical evaluation was not performed to justify procurement and installation of non-safety-related replacement fans for 120Vac Class 1E inverter; and (4) a problem evaluation report was not issued when procedure and parts problems were encountered during the centrifugal charging pump seal replacement work. The team also noted weaknesses in work order preparation by maintenance planning, and in some completed work orders which did not meet the specified acceptance criteria but were reviewed and closed out.

No response to this letter is required. The NRC Region II Office will issue any enforcement actions resulting from this inspection.

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be placed in the NRC Public Document Room. If you have any questions concerning this inspection, please contact the NRR Project Manager P.S. Tam at (301) 415-1451 or the inspection team leader S.K. Malur at (301) 415-2963.

Sincerely,



Robert M. Gallo, Chief
Special Inspection Branch
Division of Technical Support
Office of Nuclear Reactor Regulation

Docket No. 50-390

Enclosure: Inspection Report 50-390/95-202

cc w/encls: See page 3

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Watts Bar Nuclear Plant

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