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SEP 20 1991

U.S. Nuclear Regulatory Commission
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Gentlemen:

In the Matter of the Application of) Docket Nos. 50-390
Tennessee Valley Authority) 50-391

WATTS BAR NUCLEAR PLANT (WBN) UNITS 1 AND 2 - SUPPLEMENTAL RESPONSE TO
NRC AUDIT ISSUE ON CATEGORY 1(L) PIPING VERIFICATION (TAC NOS. 79717 AND
80346)

Reference: TVA letter to USNRC Document Control Desk, December 18, 1990,
Documentation of Resolutions to NRC Open Issues - WBN Final
Safety Analysis Report (FSAR), Amendment 64

The referenced correspondence formally documented the TVA Category 1(L)
verification methodology. NRC review of this information is currently in
progress. As a result of recent discussions with the staff, the
following criteria changes are being implemented for the WBN
Category 1(L) piping verification effort:

Pressure Boundary Retention Piping

Compliance with the following additional load case is required.

$$Pr + DW + SSE(I) < 2.4 S_h$$

Where: Pr = Pressure Stress
DW = Stress due to dead weight
SSE(I) = Safe Shutdown Earthquake Inertia Stress
S_h = Allowable Stress

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Pipe Support Acceptance Criteria

The following have been revised:

1. Acceptance bolt stresses are the lesser of $0.75 S_u$ and the minimum specified S_y .

Where: S_y = Yield Stress
 S_u = Ultimate Stress

2. Load sharing is not permitted.
3. For expansion anchors, the bolt design capacity utilizes a minimum factor of safety of 3.0 on the nominal ultimate capacities which are presented in TVA Civil Design Standard DS-C1.7.1, "General Design Information - Anchorage to Concrete." Bolt capacities are adjusted in accordance with DS-C1.7.1 to account for variances to installation requirements and design considerations such as bolt spacing and edge distance.

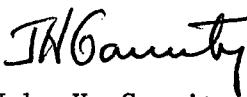
The purpose of this submittal is to transmit this information for formal staff review. Documentation of these program attributes should serve to resolve this FSAR Amendment 64 open issue (TAC Nos. 79717 and 80346).

No FSAR text changes are associated with this submittal. Additionally, no new commitments are contained in this response.

If you have any questions, please telephone P. L. Pace at (615) 365-1824.

Very truly yours,

TENNESSEE VALLEY AUTHORITY


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U.S. Nuclear Regulatory Commission

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