TENNESSEE VALLEY AUTHORITY
CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

February 3, 1982

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US NUCLEAR REGULATORY COMMISSION
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Director of Nuclear Reactor Regulation
Attention: Ms. E. Adensam, Chief
Licensing Branch No. 4
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Dear Ms. Adensam:

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

In your letter dated December 7, 1981 to H. G. Parris, TVA was provided with NRC question Q371.33 on Watts Bar Nuclear Plant. Enclosed is TVA's response to Q371.33 concerning the technical specification for the Flood Protection Plan. This response will be included in Amendment 47 to the Watts Bar Final Safety Analysis Report.

If you have any questions concerning this matter, please get in touch with D. P. Ormsby at FTS 858-2682.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager
Nuclear Regulation and Safety

Sworn to and subscribed before me
this 3rd day of Feb. 1982
Paulette H. White
Notary Public
My Commission Expires 9-5-84

Enclosure
cc: U.S. Nuclear Regulatory Commission (Enclosure)
Region II
Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

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Q371.33 Question:

Provide the draft technical specification for the Flood Protection Plan for the Watts Bar Nuclear Plant. Provide the Limiting Conditions for Operation, Surveillance Requirements and Bases.

Response:

Please see the attached draft Watts Bar Nuclear Plant unit 1 technical specification, plant systems, 3/4.7.6 Flood Protection Plan.

PLANT SYSTEMS

3/4.7.6 FLOOD PROTECTION PLAN

LIMITING CONDITION FOR OPERATION

3.7.6 The flood protection plan shall be ready for implementation to maintain the plant in a safe condition.

APPLICABILITY: When one or more of the following conditions exist:

a. flood-producing storm conditions in the east Tennessee watershed.

b. an early warning or alert that a critical combination of flood and/or high upstream reservoir headwater levels may or have developed,

c. an early warning or alert involving Fontana Dam, or

d. recognizable seismic activity in the east Tennessee region.

ACTION:

a. With a Stage I flood warning issued initiate and complete within 10 hours the Stage I flood protection plan which shall include being in at least HOT STANDBY within 6 hours, with a SHUTDOWN MARGIN of at least 5% delta k/k and T/avg less than or equal to 350°F within the following 4 hours. If within 10 hours following the issuance of a Stage I flood warning communications between the TVA Division of Water Resources and the Watts Bar Nuclear Plant cannot be verified and it cannot be determined that a flood condition critical to the plant has not occurred initiate and complete the Stage II flood protection procedure within the following 17 hours. With a Stage II flood warning issued, initiate and complete the Stage II flood protection procedure in time to ensure completion before flooding of the site.

b. With a seismic event occurring after alert has been issued verify and maintain communications between TVA Power Control Center and the Watts Bar Nuclear Plant within 6 hours and determine if a critical combination of dam failures has occurred. Institute and complete Stage I flood protection plan within the following 10 hours: (1) if a critical case has occurred; (2) if it cannot be determined that a critical case has not occurred; and (3) upon a loss of communications. If communications have not been established upon completion of the Stage I flood protection plan and it cannot be

determined that a critical case has not occurred, initiate and complete the Stage II flood protection plan within the following 17 hours.

c. With a Fontana Dam Alert issued verify and maintain hourly communications between Fontana Dam and the Watts Bar Nuclear Plant. Initiate and complete the Stage I flood protection plan within 10 hours upon notification that Fontana Dam has failed or upon loss of communications. If communications have not been established upon completion of the Stage I flood protection plan and it cannot be determined that a flood condition critical to the plant has not occurred, intitiate and complete the Stage II flood protection plan within the following 17 hours.

d. With either the Norris, Cherokee, Douglas, Fort Loudon, Fontana, or Tellico dam failed seismically after a critical combination of flood and/or headwater alters has been issued, initiate and complete the Stage I flood protection plan within 10 hours. Upon completion of the Stage I flood protection plan, initiate and complete the Stage II flood protection plan within the following 17 hours. Both the Stage I and the Stage II flood protection plans will be terminated if it is determined that the potential for flooding the site does not exist.

SURVEILLANCE REQUIREMENTS

4.7.6.1 The water level at the intake pumping station shall be determined at least once per 8 hours when the water level is less than or equal to 714.5 feet Mean Sea Level USGS datum during October 1 through April 15, or 726.5 feet Mean Seal Level USGS datum during April 16 through September 30; and at least once per 2 hours when the water level is above these limits.

4.7.6.2 Communications between Watts Bar Nuclear Plant:

a. and TVA Divison of Water Resources shall be maintained every 3 hours during heavy rainfall conditions in the east Tennessee watershed.

b. and TVA Power Control Center shall be maintained every 3 hours following a recognizable seismic event that has occurred when a critical combination of flood and/or headwater alert is issued. Communications shall be maintained until it has been determined that the potential for flooding the site does not exist,

c. and Fontana Dam shall be maintained every hour when an alert involving Fontana Dam has been issued by TVA Division of Water Resources and continued until the alert condition no longer exists.