

October 7, 1985

Docket Nos: 50-390  
and 50-391

Mr. H. G. Parris  
Manager of Power and Engineering (Nuclear)  
Tennessee Valley Authority  
6N11B Missionary Ridge Place  
1101 Market Street  
Chattanooga, Tennessee 37402-2801

Dear Mr. Parris:

Subject: Technical Specification Modifications for the  
Watts Bar Nuclear Plant, Unit 1

~~DISTRIBUTION~~

~~Docket Nos. 50-390/391~~  
NRC PDR  
Local PDR  
PRC System WJensen  
LB #4 r/f  
EAdensam  
MDuncan  
TKenyon  
Attorney, OELD  
JPartlow  
BGrimes  
EJordan  
ACRS (16)

The staff has reviewed your request for technical specification modifications concerning the reactor coolant system and charging pump flow for the Watts Bar Nuclear Plant and has determined the need for additional information and/or commitments prior to approval. Enclosed is our evaluation of these issues.

In summary, the staff concludes that the proposed modification involving the reactor coolant system at shutdown is unacceptable because our concerns regarding inadvertent control rod withdrawal are not addressed.

The second modification proposes to reduce ECCS flow from the centrifugal charging pumps by 41 gpm. The peak cladding temperature from a small-break LOCA is estimated to increase significantly. However, your staff has not provided a detailed safety evaluation of the most severe design basis small-break LOCA event using a model which conforms to Appendix K to 10 CFR 50. The staff requests that TVA demonstrate that the most severe small-break size has been identified and update the FSAR as appropriate (including Figures 15.3-1 through 15.3-12b).

If you have any questions concerning this matter, please contact the project manager, T. J. Kenyon, at FTS-492-7266.

The reporting and/or recordkeeping requirements contained in the letter affect fewer than ten respondents; therefore, OMB clearance is not required under P.L. 96-511.

Sincerely,

/S/

Thomas M. Novak, Assistant Director  
for Licensing  
Division of Licensing

Enclosure:  
As stated

8510150252 851007  
PDR ADOCK 05000390  
A PDR

cc: See next page

DL:LB #4  
TKenyon/hmc  
9/17/85

LA:DL LB #4  
MDuncan  
9/18/85

JMC  
DL:LB #4  
EAdensam  
9/18/85

AD:DL  
TNovak  
10/1/85

Mr. H. G. Parris  
Tennessee Valley Authority

Watts Bar Nuclear Plant

cc:  
Herbert S. Sanger, Jr., Esq.  
General Counsel  
Tennessee Valley Authority  
400 West Summit Hill Drive, E 11B 33  
Knoxville, Tennessee 37902

Mr. D. Checcet  
Westinghouse Electric Corporation  
P.O. Box 355  
Pittsburgh, Pennsylvania 15230

Mr. Ralph Shell  
Tennessee Valley Authority  
400 Chestnut Street, Tower II  
Chattanooga, Tennessee 37401

Mr. Donald L. Williams, Jr.  
Tennessee Valley Authority  
400 West Summit Hill Drive, W10B85  
Knoxville, Tennessee 37902

Resident Inspector/Watts Bar NPS  
c/o U.S. Nuclear Regulatory  
Commission  
Rt. 2 - Box 300  
Spring City, Tennessee 37381

Regional Administrator, Region II  
U.S. Nuclear Regulatory Commission,  
101 Marietta Street, N.W., Suite 2900  
Atlanta, Georgia 30323

Mr. David Ellis  
Tennessee Valley Authority  
400 Chestnut Street, Tower II  
Chattanooga, Tennessee 37401

Mr. Mark J. Burzynski  
Tennessee Valley Authority  
Watts Bar NP  
P.O. Box 800  
Spring City, Tennessee 37381