

May 17, 1991

Docket Nos. 50-390
and 50-391

Mr. Dan A. Nauman
Senior Vice President, Nuclear Power
Tennessee Valley Authority
6N 38A Lookout Place
1101 Market Street
Chattanooga, Tennessee 37402-2801

Dear Mr. Nauman:

SUBJECT: WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - JUSTIFICATION FOR USE OF
T-SAT TO APPROXIMATE T-COLD IN THE AUXILIARY CONTROL ROOM (TAC 63607)

By letter dated September 26, 1985, TVA requested a deviation from
Section III.L.2.d of Appendix R (fire protection), 10 CFR 50. Specifically,
the deviation involves use of steam generator saturation temperatures (T-sat)
to approximate reactor coolant system cold leg temperatures (T-cold).
Section III.L.2.d requires direct reading of the process variables such as
T-cold.

We have completed our review of your justification for using T-sat to approxi-
mate T-cold in the Auxiliary Control Room. The pertinent guidance document
should be Standard Review Plan (SRP) Section 9.5.1 (not Appendix R of 10 CFR 50,
which covers plants licensed before January 1, 1979). We found your justi-
fication an acceptable deviation to the guidelines of SRP 9.5.1, as described
in detail in the enclosed safety evaluation. The safety evaluation will be
incorporated into Section 7.4.2 of Supplement No. 7 to the Watts Bar SER.

Sincerely,

Original signed by

Peter S. Tam, Senior Project Manager
Project Directorate II-4
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosure:
Safety Evaluation

cc w/enclosure:
See next page

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Mr. Dan A. Nauman

cc:

Mr. Marvin Runyon, Chairman
Tennessee Valley Authority
ET 12A
400 West Summit Hill Drive
Knoxville, Tennessee 37902

Mr. Edward G. Wallace
Manager, Nuclear Licensing
and Regulatory Affairs
Tennessee Valley Authority
5B Lookout Place
Chattanooga, Tennessee 37402-2801

Mr. John B. Waters, Director
Tennessee Valley Authority
ET 12A
400 West Summit Hill Drive
Knoxville, Tennessee 37902

Mr. W. F. Willis
Senior Executive Officer
ET 12B
400 West Summit Hill Drive
Knoxville, Tennessee 37902

General Counsel
Tennessee Valley Authority
ET 11H
400 West Summit Hill Drive
Knoxville, Tennessee 37902

Mr. Dwight Nunn
Vice President, Nuclear Projects
Tennessee Valley Authority
6A Lookout Place
1101 Market Street
Chattanooga, Tennessee 37402-2801

Dr. Mark O. Medford
Vice President, Nuclear Assurance,
Licensing and Fuels
Tennessee Valley Authority
6A Lookout Place
Chattanooga, Tennessee 37402-2801

Mr. John H. Garrity, Site Vice President
Watts Bar Nuclear Plant
Tennessee Valley Authority
P. O. Box 800
Spring City, Tennessee 37381

Mr. George L. Pannell
Site Licensing Manager
Watts Bar Nuclear Plant
Tennessee Valley Authority
P. O. Box 800
Spring City, Tennessee 37381

Honorable Robert Aikman, County Judge
Rhea County Courthouse
Dayton, Tennessee 37321

Honorable Johnny Powell, County Judge
Meigs County Courthouse, Route 2
Decatur, Tennessee 37322

Mr. Michael H. Mobley, Director
Division of Radiological Health
T.E.R.R.A. Building 6th Floor
150 9th Avenue North
Nashville, Tennessee 37219-5404

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

Senior Resident Inspector
Watts Bar Nuclear Plant
U. S. Nuclear Regulatory Commission
Route 2, Box 700
Spring City, Tennessee 37381

Tennessee Valley Authority
Rockville Office
11921 Rockville Pike
Suite 402
Rockville, Maryland 20852