

May 17, 1993

Tennessee Valley Authority
ATTN: Dr. Mark O. Medford, Vice President
Technical Support
3B Lookout Place
1101 Market Street
Chattanooga, Tennessee 37402-2801

Dear Dr. Medford:

SUBJECT: WATTS BAR NUCLEAR PLANT - SMALL-BREAK LOCA REANALYSIS PER
10 CFR 50.46 (TAC M85488 and M85489)

The staff has reviewed the January 9, 1993 submittal by TVA, regarding proposed Watts Bar FSAR page changes to reflect the small-break loss-of-coolant accident (SBLOCA) reanalysis. The SBLOCA reanalysis was necessary as a result of changes to the emergency core cooling system (ECCS) model causing the peak cladding temperature (PCT) to change by more than 50°F for the limiting accident transient. In addition to the ECCS changes, TVA revised auxiliary feedwater (AFW) flow rates and the safety injection (SI) flow rates.

The staff finds TVA's proposed changes acceptable; details may be found in the enclosed safety evaluation. Please proceed to submit the draft FSAR change pages in final form. The same evaluation will be published in Section 15.3.1 of Supplement 12 to the Watts Bar Safety Evaluation Report (NUREG-0847).

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

Distribution

Docket File NRC & Local PDRs
J. Partlow WBN Reading
S. Varga G. Lainas
F. Hebdon M. Sanders
P. Tam OGC
ACRS (10) P. Fredrickson
E. Merschhoff

cc: Plant Service list

OFFICE:	PDII-4/LA	PDII-4/PM	PDII-4/D
NAME	MSanders	PTam:as	FHebdon
DATE	5/17/93	5/17/93	5/17/93

DOCUMENT NAME: SBLOCA

9305200110 930517
PDR ADOCK 05000390
A PDR

NRC FILE CENTER COPY

AA3

Handwritten signature and initials: REOL 11

Watts Bar Nuclear Plant

Tennessee Valley Authority
ATTN: Dr. Mark O. Medford

cc:

Mr. W. H. Kennoy, Director
Tennessee Valley Authority
ET 12A
400 West Summit Hill Drive
Knoxville, Tennessee 37902

Mr. D. E. Nunn, Vice President
3B Lookout Place
1101 Market Street
Chattanooga, Tennessee 37402-2801

Mr. W. J. Museler, Vice President
Watts Bar Nuclear Plant
Tennessee Valley Authority
P.O. Box 2000
Spring City, Tennessee 37381

Mr. M. J. Burzynski, Manager
Nuclear Licensing and Regulatory Affairs
Tennessee Valley Authority
5B Lookout Place
Chattanooga, Tennessee 37402-2801

Mr. G. L. Pannell, Site Licensing Manager
Watts Bar Nuclear Plant
Tennessee Valley Authority
3B Lookout Place
Spring City, Tennessee 37381

TVA Representative
Tennessee Valley Authority
11921 Rockville Pike
Suite 402
Rockville, Maryland 20852

Mr. Michael H. Mobley, Director
Division of Radiological Health
3rd Floor, L and C Annex
401 Church Street
Nashville, Tennessee 37243-1532

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

The Honorable Robert Aikman
County Executive
Rhea County Courthouse
Dayton, Tennessee 37321

The Honorable Garland Lanksford
County Executive
Meigs County Courthouse
Route 2
Decatur, Tennessee 37322

Regional Administrator
U.S.N.R.C. Region II
101 Marietta Street, N.W.
Suite 2900
Atlanta, Georgia 30323

Senior Resident Inspector
Watts Bar Nuclear Plant
U.S.N.R.C.
Route 2, Box 700
Spring City, Tennessee 37381