

April 24, 1992

Docket No. 50-390

Tennessee Valley Authority
ATTN: Dr. Mark O. Medford, Vice President
Nuclear Assurance, Licensing and Fuels
3B Lookout Place
1101 Market Street
Chattanooga, Tennessee 37402-2801

Dear Dr. Medford:

SUBJECT: WATTS BAR UNIT 1 - SUPPLEMENTAL SAFETY EVALUATION ON
CORRECTIVE ACTION PROGRAM FOR CABLES (TAC M71917)

Our safety evaluation on the corrective action program (CAP) for cables was issued by letter dated April 25, 1991, and as Appendix P of SER Supplement 7. In the safety evaluation, we addressed the issue of cable proximity to hot pipes but at that time had not reviewed the models TVA used to establish acceptable clearances between electrical cables and hot pipes. This issue was discussed in the site audit of March 2, 1992.

We have completed review of calculation WBN-OSG4-138, "Class 1E Electrical Cable/Hot Pipe Clearance Requirements", and found the models and assumptions used at Watts Bar to determine electrical cable temperatures reasonable for calculations of this type. All relevant physical phenomena appear to have been considered. We understand that TVA plans to verify the calculations during hot functional testing by performing temperature surveys of locations that might be subject to overheating.

This completes our work on the issue of cable proximity to hot pipes. Our report on the March 2, 1992 audit will be issued by separate correspondence.

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:
Supplemental Safety Evaluation
on Cable CAP

cc: see next page

NRC FILE CENTER COPY

OFC	PDII-4/LA	PDII-4/PM	PDII-4/D	
NAME	MSanders <i>ms</i>	PTam <i>PST</i>	FHebdon <i>FH</i>	
DATE	4/23/92	4/23/92	4/24/92	

MAY

FOI 1/1

9205060106 920424
PDR ADOCK 05000390
PDR

Watts Bar Nuclear Plant

Tennessee Valley Authority
ATTN: Dr. Mark O. Medford

cc:

Mr. John B. Waters, 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. John H. Garrity, Vice President
Watts Bar Nuclear Plant
Tennessee Valley Authority
P.O. Box 800
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
P.O. Box 800
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
T.E.R.R.A. Building 6th Floor
150 9th Avenue North
Nashville, Tennessee 37219-5404

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

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

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

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

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

DISTRIBUTION

Docket File
NRC & Local PDRs
WBN Rdg. File

J. Partlow

S. Varga

G. Lainas

P. Tam

M. Sanders

OGC

W. Jensen

8-D-1

ACRS (10)

B. Wilson

RII

K. Barr

RII