

July 30, 2010

Mr. Ashok S. Bhatnagar
Senior Vice President
Nuclear Generation Development
and Construction
Tennessee Valley Authority
6A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

SUBJECT: WATTS BAR NUCLEAR PLANT, UNIT 2 – REQUEST FOR ADDITIONAL
INFORMATION REGARDING FINAL SAFETY ANALYSIS REPORT
AMENDMENT RELATED TO CONDENSATE AND FEEDWATER
(TAC NO. ME3091)

Dear Mr. Bhatnagar:

By letter dated January 11, 2010 (Agencywide Documents Access and Management System
Accession No. ML100191426), the Tennessee Valley Authority submitted Final Safety Analysis
Report Amendment No. 97 for Watts Bar Nuclear Plant, Unit 2.

The Nuclear Regulatory Commission staff reviewed the information provided and determined
that further information is required to complete its assessment of the applicant's submittal. The
specific information requested is addressed in the enclosure to this letter.

We request your response within 30 days of receipt of this letter.

If you should have any questions, please contact me at 301-415-2048.

Sincerely,

/RA PMilano for/

Justin C. Poole, Project Manager
Watts Bar Special Projects Branch
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-391

Enclosure:
Request for Additional Information

cc w/encl: Distribution via Listserv

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SUBJECT: WATTS BAR NUCLEAR PLANT, UNIT 2 – REQUEST FOR ADDITIONAL
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ADAMS Accession No. ML101940474

OFFICE	LPWB/PM	LPWB/LA	NRR/SBPB/BC	OGC	LPWB/BC
NAME	JPoole	BClayton	GCasto	DRoth/NLO	SCampbell
DATE	07 / 22 /10	07 / 22 /10	07 / 26 /10	07/ 27/10	07 / 30 /10

OFFICIAL AGENCY RECORD

REQUEST FOR ADDITIONAL INFORMATION
WATTS BAR NUCLEAR PLANT, UNIT 2
FINAL SAFETY ANALYSIS REPORT AMENDMENT NO. 97
TENNESSEE VALLEY AUTHORITY
DOCKET NO. 50-391

In Amendment No. 75 dated March 4, 2009 (Agencywide Documents Access and Management System Accession No. ML090480566), the Nuclear Regulatory Commission (NRC) approved a revision to Technical Specification (TS) 3.3.2, "Engineered Safety Feature Actuation System (ESFAS) Instrumentation," for Watts Bar Nuclear Plant (WBN) Unit 1. Specifically, this amendment revised the requirements for the auxiliary feedwater system (AFW) auto-start function associated with the trip of the turbine-driven main feedwater (TDMFW) pumps.

The ESFAS circuitry provides an automatic start of the AFW pumps in the event both TDMFW pumps trip. The proposed Final Safety Analysis Report (FSAR) Section 10.4.7 for WBN Unit 2 does not provide a description of this logic. However, FSAR Chapter 15 states that in order to provide the necessary protection against the loss of normal feedwater, the motor-driven AFW and turbine-driven AFW pumps will start automatically upon a trip of both TDMFW pumps.

WBN Units 1 and 2 do not have a block of the automatic AFW pump start circuit upon a trip of both TDMFW pumps to use during startup of the first TDMFW pump. In WBN Unit 1 Amendment 75, Mode 2 applicability for this function added a note stating: "When one or more Turbine Driven Feedwater Pump(s) are supplying feedwater to steam generators."

Discuss whether the changes made to TS 3.3.2 for WBN Unit 1 in Amendment 75 will be made in the proposed FSAR and TSs for Unit 2. If not, provide detailed information regarding the logic to provide an automatic start of the AFW pumps and how that logic is controlled during a plant startup.