

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401  
400 Chestnut Street Tower II

June 26, 1984

Director of Nuclear Reactor Regulation  
Attention: Ms. E. Adensam, Chief  
Licensing Branch No. 4  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Dear Ms. Adensam:

In the Matter of the Application of ) Docket Nos. 50-390  
Tennessee Valley Authority ) 50-391

Enclosed herewith are 60 copies of Watts Bar Nuclear Plant Final Safety Analysis Report (FSAR) Amendment 53. This amendment affects chapters 10, 12-15, and miscellaneous questions. Also enclosed is a list of FSAR material which has undergone revision.

An instruction sheet is included with this information for incorporating the revised material into the FSAR.

If you have any questions concerning this matter, please get in touch with D. P. Ormsby at FTS 858-2682.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

*D S Kammer*

D. S. Kammer  
Nuclear Engineer

Sworn to and subscribed before me  
this 26<sup>th</sup> day of June 1984

*Paulette N. White*  
Notary Public  
My Commission Expires 9-5-84

Enclosures (60)

cc: U.S. Nuclear Regulatory Commission (Enclosure)  
Region II  
Attn: Mr. James P. O'Reilly Administrator  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30323

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ENCLOSURE

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2  
FSAR PAGES AFFECTED BY AMENDMENT 53

Listed below are those sections of the FSAR for chapters 10, 12-15 and miscellaneous questions which have been revised by Amendment 53.

Chapter 10 - Steam and Power Conversion Systems

Section 10.2 - Turbine Generator

Section 10.3.5 - Water chemistry section completely, rewritten

Section 10.4 - Other features of Steam and Power Conversion System

Chapter 12 - Radiation Protection

Section 12.3 - Radiation Protection Design Features

Chapter 13 - Conduct of Operations

Section 13.1 - Deletes resumes of key personnel from FSAR

Section 13.2 - Training program completely rewritten

Chapter 14 - Initial Test Program

Section 14.2 - Test Program - minor revisions

Chapter 15 - Accident Analysis

Section 15.1 - Normal Operation and Operational Transients

Section 15.2 - Faults of Moderate Frequency

Section 15.3 - Infrequent Faults

Section 15.4 - Limiting Faults

Section 15.5 - Environmental Consequences of Accidents

Miscellaneous Questions

Questions 022.70 - Information on Hydrogen Recombiners

Questions Series 362 - Material concerning liquifaction issue deleted from questions and inserted in FSAR test

Questions Series 371 - Material concerning flooding deleted from questions and inserted in FSAR text

Questions Series 413 - Material update to be consistent with chapter 14 revisions

Questions Series 441 - Material deleted from questions and inserted in FSAR text