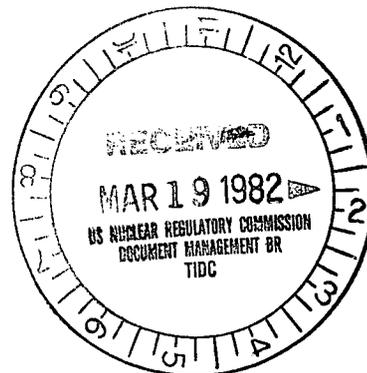


TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

March 17, 1982



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

Dear Ms. Adensam:

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

Enclosed for NRC review is information concerning Watts Bar Nuclear Plant's compliance with ANSI N195-1976 and Regulatory Guide 1.137 position C.2. This information should resolve the Power Systems Branch concerns designated as open item 57 in the draft Safety Evaluation Report.

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

L. M. Mills, Manager  
Nuclear Regulation and Safety

Sworn to and subscribed before me  
this 17<sup>th</sup> day of March 1982

Brijant M. Lowery  
Notary Public

My Commission Expires 4/4/82

Enclosure

cc: U.S. Nuclear Regulatory Commission  
Region II  
Attn: Mr. James P. O'Reilly, Regional Administrator  
101 Marietta Street, Suite 3100  
Atlanta, Georgia 30303

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ENCLOSURE

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2  
DIESEL GENERATOR FUEL OIL SYSTEM

A. COMPLIANCE OF THE WBN DIESEL ENGINE FUEL OIL SYSTEM TO ANSI N195-1976

The design of the emergency diesel engine fuel oil storage and transfer system at WBN was completed before development or publication of American National Standard (ANS) 59.51/American National Standards Institute (ANSI) N195-1976. TVA has reviewed ANSI N195-1976 and noted the compliance of the WBN diesel engine fuel oil system to the standard. Items which do not comply to the standard were evaluated and determined not to affect the ability of the system to perform its intended safety function. Justification is given in Attachment 1.

B. COMPLIANCE OF THE WBN DIESEL ENGINE FUEL OIL SYSTEM TO REGULATORY GUIDE 1.137 POSITION C.2

TVA will comply fully with the requirements of position C.2 of Regulatory Guide 1.137.

ATTACHMENT 1

COMPLIANCE OF THE WBN DIESEL ENGINE FUEL OIL SYSTEM TO ANSI N195-1976

Section 1, "Scope" - Not applicable

Section 2, "Purpose" - Not applicable

Section 3, "Definitions" - Not applicable

Section 4, "General System Functional Requirements" - The WBN diesel engine fuel oil system conforms to all requirements listed in this section.

Section 5, "System Performance Requirements" - The WBN diesel engine fuel oil system conforms to all requirements listed in this section.

Section 6, "Component Performance Requirements" - The WBN diesel engine fuel oil system conforms to all requirements listed in this section.

Section 7, "Design Requirements" - The WBN diesel engine fuel oil system conforms to all requirements listed in this section with the following exceptions:

- (a) The diesel engine fuel oil piping system between the 7 day tanks and the diesel engine skid interface is designed to ASME Section III, Class 3. This is in compliance with ANSI N195-1976. The skid-mounted piping is designed to ANSI B31.1. It is TVA's position that the skid-mounted piping and components are part of the engine assembly and as such are required only to comply with the requirements of ANSI B31.1.
- (b) 7.3, "Physical Arrangement:" The 7-day tank vents do not conform to the specified requirement for protection from tornado-generated missiles. TVA will provide appropriate missile protection for these vents before fuel loading.

Section 8, "Instrumentation and Control Requirements" - The WBN diesel engine fuel oil system conforms to all requirements listed in this section with the following exceptions:

- (1b) Differential pressure indicators are not provided. However, pressure switches are located on each side of the strainers. These pressure switches have local indicators and are alarmed in the MCR on a low pressure signal. The differential pressure could readily be determined by using the local indicators.
- (2b) Level indicators are not provided. Fuel level is monitored administratively in accordance with the WBN technical specifications.

Section 9, "System and Component Testing" - The WBN diesel engine fuel oil system preoperational test program conforms to all requirements listed in this section.

Section 10, "System Component Maintenance Provisions" - The Watts Bar diesel engine fuel oil system maintenance provisions conform to all the requirements listed in this section.