

April 1, 1983

Docket Nos: 50-390  
and 50-391

Mr. H. G. Parris  
Manager of Power  
Tennessee Valley Authority  
500A Chestnut Street, Tower II  
Chattanooga, Tennessee 37401

DISTRIBUTION:

Docket Nos. 50-390/391  
NRC PDR  
Local PDR  
LB #4 r/f  
EAdensam  
TKenyon  
TNovak  
MDuncan  
ELJordan, DEQA: I&E  
JMTaylor, DPR: I&E  
ACRS (16)

Dear Mr. Parris:

Subject: Environmental Qualification of Safety Related  
Mechanical Equipment Located in Harsh Environ-  
ment Areas for the Watts Bar Nuclear Plant,  
Units 1 and 2

The Watts Bar Safety Evaluation Report (SER NUREG-0847, June 1982) states that additional information is needed to determine the extent to which safety-related mechanical equipment complies with the relevant requirements of General Design Criterion 4(GDC-4). We have developed the following guidance concerning submittal of information needed to complete our review of the environmental qualification of safety-related equipment.

In order to demonstrate compliance with GDC-4 of Appendix A to 10 CFR Part 50, we require that a review and evaluation be performed by your staff that includes the following:

- 1) Identification of safety-related mechanical equipment located in harsh environment areas, including required operating time.
- 2) Identification of the nonmetallic subcomponents of this equipment.
- 3) Identification of the environmental conditions this equipment must be qualified for.
- 4) Identification of nonmetallic material capabilities.
- 5) Evaluation of environmental effects.

We request that the list of safety-related mechanical equipment reviewed for the evaluation be provided to the NRC staff one month prior to the date of the site audit for environmental qualification. We will select approximately three items of mechanical equipment for which documentation of environmental qualification should be provided for our review on the date of the audit. We will also review the results of the analysis performed for all safety-related mechanical equipment located in harsh environment areas. However, the site audit will be limited to electrical equipment located in harsh environmental areas.

8304050651 830401  
PDR ADOCK 05000390  
E PDR

OFFICE							
SURNAME							
DATE							

Mr. H. G. Parris

- 2 -

Discussion with your staff indicates that submittal of the evaluation of the environmental qualification of electrical equipment will be delayed. In determining a revised schedule for submittal of this report, please note that the submittal should be received 6-8 months prior to fuel load. This would support a site audit approximately 3 months prior to fuel load.

If you have any further questions regarding this evaluation, please contact the project manager, T. J. Kenyon, at (301) 492-7266.

Sincerely,



Elinor G. Adensam, Chief  
Licensing Branch No. 4  
Division of Licensing

cc: See next page

OFFICE	DL:LB #4	LA:DL:LB #4	DL:LB #4	EQB 266			
SURNAME	TKenyon/hmc	MDuncan	EAdensam	VNoonan			
DATE	3/24/83	3/25/83	3/27/83	3/28/83			