

Docket Nos: 50-390  
and 50-391

MAY 21 1982

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

Dear Mr. Parris:

Subject: Request for Additional Information on the Watts Bar  
Nuclear Plant, Units 1 and 2

Attached is a request for additional information regarding the concern raised on diesel generator exhaust missile protection at the Watts Bar Nuclear Plant, Units 1 and 2. The information request has resulted from your recent submittals, including the March 30, 1982, response. Your staff has not adequately addressed the calculational aspects and assumptions used in your analysis in order to permit us to complete our review.

If you have any questions concerning these matters, please contact the project manager, T. J. Kenyon, at (301) 492-7266.

The reporting and/or recordkeeping requirements contained in this letter affect fewer than ten respondents; therefore, OMB clearance is not required under P.L. 96-511.

Sincerely,

*Carl Stahl*

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

Enclosure:  
As stated

cc: See next page



8206010077 A

OFFICE	DL:LB #4	LA:DL:LB #4	DL:LB #4				
SURNAME	TKenyon/hmc	MDuncan	EAdensam				
DATE	5/2/82	5/2/82	5/2/82				

WATTS BAR

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

cc: Herbert S. Sanger, Jr., Esq.  
General Counsel  
Tennessee Valley Authority  
400 Commerce Avenue  
E11B33  
Knoxville, Tennessee 37902

Mr. W. Luce  
Westinghouse Electric Corporation  
P.O. Box 355  
Pittsburgh, Pennsylvania 15230

Mr. David Lambert  
Tennessee Valley Authority  
400 Chestnut Street, Tower II  
Chattanooga, Tennessee 37401

Mr. J. F. Cox  
Tennessee Valley Authority  
400 Commerce Avenue, W10B85C  
Knoxville, Tennessee 37902

Resident Inspector/Watts Bar NPS  
c/o U.S. Nuclear Regulatory  
Commission  
Rt. 2 - Box 300  
Spring City, Tennessee 37831

Mr. David Ormsby  
Tennessee Valley Authority  
400 Chestnut Street, Tower II  
Chattanooga, Tennessee 37401

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

REQUEST FOR ADDITIONAL INFORMATION  
WATTS BAR NUCLEAR PLANT, UNITS 1 AND 2  
AUXILIARY SYSTEMS BRANCH

- 010.39 Please provide the methodology, material properties, modeling configuration, assumptions and justifications used in your calculations in determining the area reduction of the diesel generator exhaust stacks as a result of a 1" diameter steel rod missile impact.

The licensee states that for conservatism, the entire energy of the impacting missile was considered to be delivered to the target. As part of the response to the above requested information, quantify the various energy absorption/loss modes (i.e., elastic and nonelastic deflection and deformation, location of the deformations and vibrational and thermal energy losses).