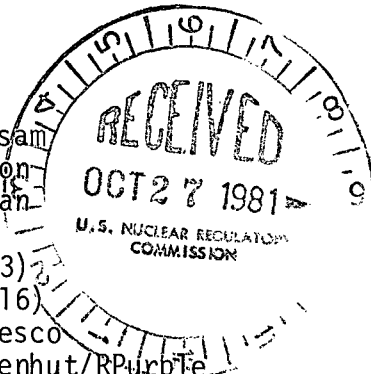


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Docket Nos. 50-390
and 50-391

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

Dear Mr. Parris:

Subject: Seismic Qualification of Equipment Important for Safety for the
Watts Bar Nuclear Plant, Units 1 & 2

During a conference call between the NRC and your staff on August 14, 1981, the status of your responses to our March 20, 1981 letter regarding the seismic qualification of equipment important for safety was discussed. During the conference call, your staff expressed the view that the review of the seismic qualification of equipment on the Sequoyah Nuclear Plant could be applied to the Watts Bar Nuclear Plant due to the similarities of the facilities.

Although the NRC staff is in agreement with TVA on the seismic qualification methodology, we have determined that it is necessary for TVA to demonstrate that the seismic input used for equipment qualification is consistent with the site specific spectra. Therefore, a detailed site audit is necessary to verify the adequacy of the Watts Bar equipment to the input generated from site specific spectra.

As a result of our discussion with TVA, the NRC staff has developed Q270.7 - 270.8 (attached) which need to be answered with your seismic qualification submittal. It is our understanding that your submittal will be prepared in March 1982.

If you have any questions concerning this matter, please contact the Project Manager, T. J. Kenyon at (301) 492-7266.

Sincerely,

Original Signed by
Robert L. Tedesco

Robert L. Tedesco, Assistant Director
for Licensing
Division of Licensing

may

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PDR ADOCK 05000390
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Enclosure:
As stated

cc w/encl: See next page

OFFICE		DL:LB#4	DL:LB#4	DL:LB#4		
SURNAME		TKenyon	EAdensam	RLTedesco		
DATE		10/2/81	10/10/81	10/16/81		

WATTS BAR

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

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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

Enclosure

270.7 The seismic hazard for the Watts Bar site was redefined and specified in terms of a site specific spectrum which corresponds to the 34th percentile spectrum shape derived from a number of recorded time histories of ground motion. The site specific spectrum is applicable for rock supported structures. For structures that are supported on soil at the Watts Bar site, TVA had performed an amplification study for the soil overburden, and used amplified seismic input motion. It is necessary to demonstrate that the seismic input for equipment qualification developed from (a) the use of site specific response spectra for rock supported structures and (b) the use of amplified input from site specific spectra for soil supported structures are adequately covered by the actual input spectra used to qualify equipment important to safety.

Relevant sections of the FSAR, e.g., 2.5, 3.7, 3.8, 3.9 and 3.10, should be revised in a future amendment, and a commitment should be provided indicating the date within which the adequacy of the seismic input used for equipment qualification will be demonstrated.

270.8 Following a demonstration of the adequacy of the seismic input used for qualification of equipment, information on equipment qualification data should be summarized in accordance with the format provided in Q. 112.33. A number of items from the nuclear steam supply area and a similar number from the balance of plant will be selected for a detailed site audit. TVA should provide a schedule for the site audit keeping in mind that issues arising out of the site audit should be resolved before the fuel loading date.