

January 15, 1985

Docket Nos: 50-390
and 50-391

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

DISTRIBUTION:

Docket Nos. 50-390/391
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Dear Mr. Parris:

Subject: Request for Additional Information Regarding Main
Steam Line Break Accident Analysis for the Watts Bar
Nuclear Plant, Units 1 and 2

As part of the staff's review of postulated main steam line break accidents inside ice condenser containments, the staff has identified the need for additional information for the Watts Bar Nuclear Plant, Units 1 and 2. The information required is described in the enclosure.

Please respond to these questions by February 15, 1985, in order to support resolution of this item prior to licensing for low power operation of the facility. If you have any questions concerning this matter, please contact the project manager, T. J. Kenyon, at FTS 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,

Original Signed By
Elinor G. Adensam

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

Enclosure:
Request for Additional Information

cc: See next page

DL LB #4
TKenyon/hmc
1/14/85

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PDR
A

WATTS BAR

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cc: Herbert S. Sanger, Jr., Esq.
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Resident Inspector/Watts Bar NPS
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Commission
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Mr. Mark J. Burzynski
Tennessee Valley Authority
Watts Bar NP
P.O. Box 800
Spring City, Tennessee 37381

ENCLOSURE

REQUEST FOR ADDITIONAL INFORMATION
REGARDING MAIN STEAM LINE BREAK
ACCIDENT ANALYSES FOR WATTS BAR, UNITS 1 AND 2

1. Provide the results of the containment response analysis for the limiting main steam line break accident for Watts Bar. This analysis should be based upon the revised version of LOTIC-3 (WCAP 8354, Supplement 3), and the staff-approved models for condensed mass removal and for heat transfer to passive heat sinks. Include in your response the following information:
 - a. tabulated mass and energy release rate data for the limiting break;
 - b. a detailed assessment of how the flow from each of the ice condenser drains in Watts Bar will be apportioned among the various drain configuration models, i.e., flow splits for each drain;
 - c. a plan view drawing of the Watts Bar lower compartment depicting the ice condenser drains and major equipment and structures in the drain region; and
 - d. a brief summary of the key assumptions regarding each of the drain configuration models.
2. Discuss the status of the Westinghouse drain flow test program, and how results obtained to date support the modelling assumptions in LOTIC-3, Supplement 3. Provide a schedule for completion of planned tests and analyses.
3. Provide a list of safety-related equipment that is required to mitigate MSLB accidents. Identify the location of this equipment within containment and the time required for the equipment to perform its intended function (relative to tube bundle uncover time).
4. Provide additional justification regarding the modelling of the thermal response of the dead-ended compartments in LOTIC-3. Include a description of the MSL guard pipe within the dead-ended compartments and the vent paths between the lower compartment and dead-ended compartments nearest the break location.