

May 21, 1991

Docket No. 50-390

Mr. Dan A. Nauman
Senior Vice President, Nuclear Power
Tennessee Valley Authority
6N 38A Lookout Place
1101 Market Street
Chattanooga, Tennessee 37402-2801

Dear Mr. Nauman:

SUBJECT: WATTS BAR UNIT 1 - SUPPLEMENTAL SAFETY EVALUATION OF THE SPECIAL PROGRAM ON CONTAINMENT COOLING (TAC 77284)

The enclosed supplemental safety evaluation documents our review of your responses to the requirements identified in Section 3.3.2, "Containment Cooling," of the SER on the Watts Bar Unit 1 Nuclear Performance Plan (NUREG-1232, Volume 4). Based on our review of the assumptions used in the containment temperature reanalysis following a main steam line break (MSLB) and your proposed containment cooling system modifications, we concluded that the containment cooling systems are acceptable and that hot standby is an acceptable safe shutdown mode following an MSLB. During our review of the Watts Bar environmental qualification program, we will ensure that the containment temperature profiles and equipment qualification conform to the new assumptions.

As we stated in NUREG-1232, Volume 4, the enclosed safety evaluation will be incorporated in Supplement 7 of the Watts Bar Safety Evaluation Report.

Sincerely,

Original signed by

Peter S. Tam, Senior Project Manager
Project Directorate II-4
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosure:
Safety Evaluation

cc w/enclosure:
See next page

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