



Tennessee Valley Authority, Post Office Box 2000, Spring City, Tennessee 37381

John H. Garrity
Vice President, Watts Bar Nuclear Plant

AUG 30 1991

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Gentlemen:

In the Matter of the Application of)
Tennessee Valley Authority) Docket No. 50-390

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1 - CONFIRMATION OF CIVIL CALCULATION
AVAILABILITY IN SUPPORT OF THE SEPTEMBER 9, 1991 NRC SITE AUDIT
(TAC R00514)

In accordance with your request of August 13, 1991, enclosed is a listing
of the civil/structural calculations completed as of this date to support
the scheduled site audit for civil calculation program implementation.

If you have any questions, please telephone P. L. Pace at (615) 365-1824.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

JH Garrity 8/30/91
John H. Garrity

Enclosure
cc: See page 2

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U.S. Nuclear Regulatory Commission

AUG 30 1991

cc (Enclosure):

NRC Resident Inspector
Watts Bar Nuclear Plant
P.O. Box 700
Spring City, Tennessee 37381

Mr. P. S. Tam, Senior Project Manager
U.S. Nuclear Regulatory Commission
One White Flint, North
11555 Rockville Pike
Rockville, Maryland 20852

Mr. B. A. Wilson, Chief, Project Chief
U.S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

ENCLOSURE

CIVIL/STRUCTURAL CALCULATIONS
COMPLETED AS OF 8/29/91

	<u>Calcs Completed</u>	<u>Total Calcs</u>	<u>Remarks</u>
Structural Steel Platforms	15	20	Worse Case Evaluation
Structural Steel Thermal Issues	8	11	15 worse cases to be evaluated in 3 calcs. 1 calc evaluating 5 cases is complete.
Concrete	23	27	
Equipment Anchorage	8	14	Completed calcs represent 2 heat exchangers, 6 tanks, and 4 pumps
Embedded Plates	120	450	

Areas which were covered during April 1991 NRC Inspection:

Masonry Walls	3	3	Represents worse case analysis of 101 walls
Steel Containment Vessel	33 (329 Pad Plates) (53 Penetrations)	113 (516 Pad Plates) (117 Penetrations)	
Geotechnical	8	8	
Ground Supported Steel Tanks	1	1	RWST