



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

John A. Scalice
Site Vice President, Watts Bar Nuclear Plant

OCT 10 1997

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

Gentlemen:

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

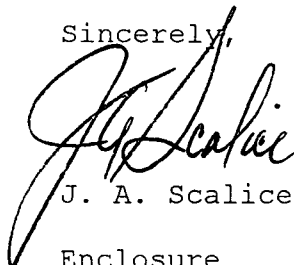
WATTS BAR NUCLEAR PLANT (WBN) UNIT 1 - AMERICAN SOCIETY OF
MECHANICAL ENGINEERS (ASME) CODE REQUIREMENTS - CONTROL ROD DRIVE
MECHANISM (CRDM) CANOPY SEAL WELDS - FRACTURE MECHANICS ANALYSIS

The purpose of this letter is to provide the fracture mechanics
analysis on the CRDM canopy seal weld repair.

In TVA's September 20, 1997 letter requesting approval of an
alternative weld repair and examination method to the ASME Code
requirements, TVA committed to provide the fracture mechanics
analysis that was to be performed to support the alternative
repair method of the CRDM canopy seal welds. That analysis,
performed by Structural Integrity Associates, Inc., is provided in
the enclosure as Report No. SIR-97-089, "Design and Analysis of a
Weld Overlay Repair for the Watts Bar CRDM Lower Canopy Seal
Welds."

If you should have any questions, please contact P. L. Pace at
(423) 365-1824.

Sincerely,


J. A. Scalice

Enclosure
cc: See page 2

D030 1/1

200012

9710200052 971010
PDR ADOCK 05000390
P PDR



U.S. Nuclear Regulatory Commission

Page 2

OCT 10 1997

cc (Enclosure):

NRC Resident Inspector
Watts Bar Nuclear Plant
1260 Nuclear Plant Road
Spring City, Tennessee 37381

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

U.S. Nuclear Regulatory Commission
Region II
Atlanta Federal Center
61 Forsyth St., SW, Suite 23T85
Atlanta, Georgia 30303