



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

OCT 13 1998

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 - REACTOR VESSEL  
SURVEILLANCE CAPSULE U TEST RESULTS AND REACTOR COOLANT SYSTEM  
(RCS) PRESSURE TEMPERATURE LIMITS REPORT (PTLR) REVISION 6 (TAC  
NO. M89606)

In accordance with 10 CFR 50 Appendix H.IV.A, TVA is submitting  
the technical report, WCAP-15046, "Analysis of Capsule U from  
the Tennessee Valley Authority Watts Bar Unit 1 Reactor Vessel  
Radiation Surveillance Program," which details the tests results  
of the surveillance capsule withdrawn in Cycle 1 refueling  
outage. This report is provided in Enclosure 1.

As a result of that analysis, TVA revised the RCS PTLR to  
accelerate the surveillance capsule removal schedule and to  
include data both predicted and measured relative to the 30 ft-  
lb transition temperature shift and the decrease in upper shelf  
energy. The 7 effective full power year (EFPY) heatup and  
cooldown curves which are the basis for normal operation of the

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plant and the power operated relief valve (PORV) could overpressurize mitigation system (COMS) setpoints were not changed by the results of the analysis. The PTLR Revision 6 is provided in Enclosure 2.

If you have any questions concerning this matter, please telephone me at (423) 365-1824.

Sincerely,



P. L. Pace  
Watts Bar Site Licensing  
and Industry Affairs Manager

Enclosures

cc (Enclosures):

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