

2214

U.S. DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY
WASHINGTON, D.C.

8307120853 790512
PDR ADOCK 05000289
P HOL

Babcock & Wilcox

Power Generation Group

P.O. Box 1250, Lynchburg, Va. 24505

Telephone: (804) 384-5111

May 12, 1979

Dr. R. J. Mattson, Director
Division of System Safety
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Reference: "Evaluation of Transient Behavior and Small Reactor Coolant
System Breaks in the 177 Fuel Assembly Plant," May 7, 1979.

Dear Dr. Mattson:

The Staff's review of the reference has resulted in an NRC request for additional information on Section 6, "Small Break Analyses." Specifically, the Staff requested the following analyses:

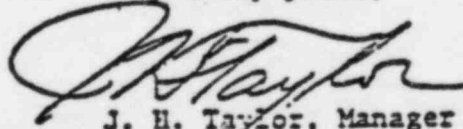
"Small Break in the Pressurizer (PORV) With No Auxiliary
Feedwater and One EPI Pump"

B&W has performed the requested analysis and concluded that the system is maintained in a safe condition with the core remaining covered out to at least 30 minutes. This calculation involves the conservative input assumption of 1.2 x ANS decay heat. The results of the analysis are attached to this letter and have been identified as Supplement 1 to Section 6 of the reference.

We also have completed a similar calculation using 1.0 x ANS decay heat. This analysis was carried out to approximately 4700 seconds where the pressure turned around. The core remains covered throughout the transient. The results of the analysis are attached to this letter and are designated as Supplement 2 to Section 6 of the reference.

If you have any additional questions, please call me at (804) 384-5111, Ext. 2817 (office) or (804) 384-3457 (home).

Very truly yours,



J. H. Taylor, Manager
Licensing

JHT/lc

cc: E.A. Wozack
E.R. Kane
R.E. Ham
R.E. Davis

G.C. Schieck
G.O. Geissler
B.M. Dunn