

**C-E Power Systems**  
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January 22, 1981  
LD-81-006

Mr. James R. Miller, Chief  
Standardization & Special Projects Branch  
Division of Licensing  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Subject: "System-80 Reactor Coolant Pump Loss of Component Cooling Water Test Report", Supplement 1 to CENPD-201-A

Reference: Letter LD-76-038, A. E. Scherer to O. D. Parr, dated April 12, 1976.

Dear Mr. Miller:

Enclosed are thirty-five (35) copies of Supplement 1, "System-80 Reactor Coolant Pump Loss of Component Cooling Water Test Report", to CENPD-201-A, "Performance of C-E System-80 Reactor Coolant Pump with Loss of Component Cooling Water". This report fulfills Combustion Engineering's (C-E) commitment made in the reference letter to provide verification of pump performance predictions by actual test of a C-E System-80 reactor coolant pump.

The results of the test program documented in the enclosure demonstrate that with a loss of component cooling water to the pump seal assembly, the pump will continue to operate for extended periods without exceeding design seal leakage limits and seal temperature limits. Further it has been shown that the System-80 reactor coolant pumps are capable of operating without component cooling water for 30 minutes without sustaining damage to the pump thrust bearings.

The information contained in Supplement 1 to CENPD-201-A is non-proprietary and may, therefore, be reproduced or otherwise distributed without control. Any questions on the subject report should be directed to me or Ms. J. C. Ennaco of my staff at (203)688-1911, Extension 2595.

Very truly yours,

COMBUSTION ENGINEERING, INC.

A. E. Scherer  
Director  
Nuclear Licensing

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Enclosure: Supplement 1 to CENPD-201-A, 35 copies

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