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SUBJECT: Submits response to request for addl info re response time testing.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
*P.O. Box 968 • Richland, Washington 99352-0968*

May 14, 1997
GO2-97-097

Docket No. 50-397

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

Gentlemen:

Subject: **WNP-2, OPERATOR LICENSE NO. NPF-21**
**RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION RELATED TO RESPONSE TIME TESTING**

Reference: Letter GO2-97-071, dated April 15, 1997, JV Parrish (SS) to NRC, "Response to Request for Additional Information Related to Response Time Testing"

On May 8, 1997, during a phone call between the Supply System and members of the staff, TG Colburn requested that additional information be provided to support the review of the information provided in the reference. The issue concerned the response times of differential pressure switches installed in the Reactor Pressure System (RPS) and the Primary Containment Isolation (PCI) System. In RPS, the instrumention is used to detect reactor pressure vessel water level - low, to initiate a reactor scram. In the PCI system, the instrumentation is used to detect excessive steam line flow, to initiate the closing of the main steam isolation valves. The Barton Model 288A differential pressure switch is used in each application.

Although the same model is used in the two applications, there are required differences in the instruments due to the differences in the applications. In the RPS application, the range is 72-30 inches of water column and the bellows is 1 5/8 inches in diameter. To support the higher differential pressure range of -15 to 0 to 150 psid in the PCI application, the bellows diameter is 3/4 inch. In a phone call with Supply System staff, Barton confirmed that components with the larger bellows and the smaller differential pressure range respond at a slower rate than the components with the smaller diaphragm. Although this information supports the test data submitted in the reference, Barton was not able to quantify the difference in rate that should be expected.

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Should you have any questions or desire additional information regarding this matter, please call me or W.A. Pfitzer at (509) 377-2419.

Respectfully,

D. A. Swank
Manager, Regulatory Affairs

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