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July 8, 1988

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

Subject: Waterford 3 SES  
Docket No. 50-382  
License No. NPP-38  
Pump and Valve Inservice Test Plan  
Supplement to IST Relief Request 2.1.3

Reference: NRC letter dated May 20, 1988, J.A. Calvo to J.G. Dewease,  
Subject: Inservice Testing Program for Waterford

Gentlemen:

As a result of reviewing the referenced letter, Louisiana Power and Light Waterford 3 hereby submits supplemental information for Relief Request 2.1.3 of the Pump and Valve Inservice Test Plan.

The American Society of Mechanical Engineers (ASME) Code Section XI IWP-3100 states, in part, that:

"An inservice test shall be conducted with the pump operating at nominal motor nameplate speed for constant speed drives and at a speed adjusted to the reference speed for variable speed drives. The resistance of the system shall be varied until either the measured differential pressure or the measured flow rate equals the corresponding reference value. The test quantities shown in Table IWP-3100-1 shall then be measured or observed and recorded as directed in this Subsection. Each measured test quantity shall then be compared with the reference value of the same quantity..."

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Waterford 3 surveillance procedures require all parameters listed in Table IWP-3100-1 to be measured and recorded (except speed) for the following pumps:

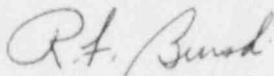
Containment Spray (CS)	A and B
High Pressure Safety Injection (HPSI)	A, B, and AB
Low Pressure Safety Injection (LPSI)	A and B
Boric Acid (BA)	A and B
Emergency Feedwater (EFW)	A and B
Emergency Feedwater (EFW)	AB (only variable speed pump, speed is measured and recorded)

As indicated above, the flow for all of the pumps is measured and recorded. However, the resistance of the system is not varied as indicated in IWP-3100. The CS, HPSI, LPSI, and EFW pumps each have a flow restricting orifice in the pump recirculation line which prevents varying the flow rate. The BA pumps do not have a restricting orifice but rather a throttled and locked needle valve in parallel with a globe valve which, due to the design of the air operator, can be positioned only in the fully-open or fully-close position. Therefore, the recirculation flow rate for the BA pumps is fixed.

For each test, the flow rate, differential pressure and vibration, are measured and compared to reference values. Since the system design prevents varying the flow rate, LP&L is requesting relief from that portion of IWP-3100 which requires varying system resistance. (Relief Request 2.1.3) The testing method described in Relief Request 2.1.3, therefore, would continue to ensure that each pump was in fact still operating on its performance curve and that degradation of pump performance would be detected.

Should you have any additional questions, please feel free to contact me or Larry Laughlin at (504) 464-3499.

Very truly yours,



R.F. Burski  
Manager -  
Nuclear Safety & Regulatory Affairs

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