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POWER & LIGHT

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Mr. Robert L. Tedesco
Assistant Director for Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUBJECT: Waterford Steam Electric Station Unit-3
Docket No. 50-382
Reactor Systems Branch (RSB)

Dear Mr. Tedesco:

Please find enclosed material requested by the RSB needed to complete their input to the Waterford Safety Evaluation Report. This material will be included in Amendment 19 to the Waterford PSAR, presently scheduled for submittal by early June.

Very truly yours,

L. V. Maurin
L. V. Maurin
Assistant Vice-President
Nuclear Operations

LVM/MPF/dt

Enclosure

cc: Mr. E. L. Blake
Mr. W. M. Stevenson



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Response

The shutdown cooling system performance is monitored using temperature, pressure and flow instrumentation. Each LPSI pump and shutdown heat exchanger set is equipped with instrumentation as follows:

<u>Parameter</u>	<u>Indicator on CP8</u>	<u>Recorder on CP-8</u>	<u>Computer Input</u>	<u>Instrumentation Power Source</u>
1. Shutdown heat exchanger inlet temperature	X	X	X	Class 1E
2. Shutdown heat exchanger outlet temperature	X	X	X	Class 1E
3. LPSI to shutdown heat exchanger temperature	X	A	X	Class 1E
4. LPSI pump discharge pressure	X	A	X	Class 1E
5. LPSI pump discharge Pressure	X		X	Non-Safety Vital AC
6. LPSI pump discharge flow	X		X	Non-Safety Vital AC

(A - Recorded for LPSI system A only)

CP-8 is in the control room. The plant computer CRT's can be addressed by the operator to continuously display any or all of these variables. The plant computer will initiate an alarm if any of the variables is not within normal range.

The complete instrument circuit for items 1-4 is class 1E.

The devices used with items 5 and 6 are not class 1E, but they are seismically and environmentally qualified. Items 5 and 6 are powered from a reliable power supply, namely, the non-safety vital ac bus which is fed from the AS Safety power system. The feed is through battery chargers and inverter. A manual bypass transfer switch is provided to bypass the chargers, battery, and inverter. On loss of off-site power, the power fed automatically switches to feed the safety AS bus from the stand-by power source. Loss of the non-safety vital ac bus operates an annunciator window in the control room. The plant computer is powered through a similar arrangement except that the power supply transfer switch is automatic should the inverter fail.