Docket No. 50-346 Serial No. DB-88-009

Mr. Donald C. Shelton Vice President - Nuclear Toledo Edison Company Edison Plaza - Stop 712 300 Madison Avenue Toledo, Ohio 43652 DISTRIBUTION:

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PDIII-3 r/f

GHolahan ADeAgazio EJordan ACRS(10) NRC & Local PDRs KPerkins PKreutzer OGC-WF1 JPartlow

PDIII-3 Gray File

Dear Mr. Shelton:

SUBJECT: NON-VITAL POWER SUPPLY IN VALVE INTERLOCK LOGIC

Attached is a letter which Westinghouse Electric Corporation sent to its customers regarding a valve interlock logic used in some of its plants. Our Instrumentation and Control System Branch has reviewed this problem, and believes that the subject problem could possible exist at the Davis-Besse Nuclear Power Station also. Please review this information for applicability at Davis-Besse.

Sincerely,

Albert W. De Agazio, Project Manager Project Directorate III-3 Division of Reactor Projects - III, IV, V and Special Projects

Enclosure: As stated

cc: See next page

Office: LA//DIII-3 Surname: PKreutzer Date: L/1/88 PM/PDIII-3/MA ADeAgazie/tg 2/19/88 PD/PDIM-3 for KPerkins 2129/88

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Westinghouse Bectric Corporation

Power Systems

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Hovember 3, 1987 CPL-87-615

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Mr. R. E. Morgan, General Manager Carolina Power and Light Company please contest me. Hartsville, South Carolina 29550

Dear Kr. Morgan:

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Carolina Power & Light Company Operating Plant Feedback - Non-vital Power Supply Used in Valve Interlock Logic

The purpose of this letter is to make you aware of a safety concern identified at an operating plant which has similar design features to your plant.

The potential problem involves the capability to establish post-LOCA recirculation flow. Please refer to the attached sketch. During certain accidents, a flow path from the containment sump through the Residual Heat accidents, a flow path from the containment sump through the Residual Heat Removal/Low Head Safety Injection (RHR/LHSI) pumps, to the High Head Safety or B must be opened. However, valves A and B are also interlocked with pressure transmitters A and B, respectively. The interlock logic includes a feature such that these valves cannot be opened when the RHRS pressure is insure that valves A and B remain closed during normal RHRS cooldown pressure piping in the suction of the HHSI and Containment Spray Pumps.

For the operating plant, the pressure transmitters A and B were powered from non-vital power. The situation resulted in the potential where valves A and B could be blocked from opening if the non-vital power failed, even though the

It is recommended that you review the current interlock logic and power arrangements for the subject valves and instrumentation to insure that failure of non-vital power still allows both valves to be opened. It is acceptable for the single failure of emergency power to preclude one valve from being November 3, 1987

If remote valve operation cannot be assured, several interim changes could be made to allow continued plant operation. Those include bypassing the interlock logic or manual operation of the valves using the handwheel. (Note: The corresponding emergency procedure should reflect any changes.) Longer-term solutions include changing power supplies or modifying the interlock logic.

Should you have any questions, please contact me.

Sincerely.

Co: V. E. Morgan (CP&L-HBR)

B. G. Rieck (CP&L-HBR)

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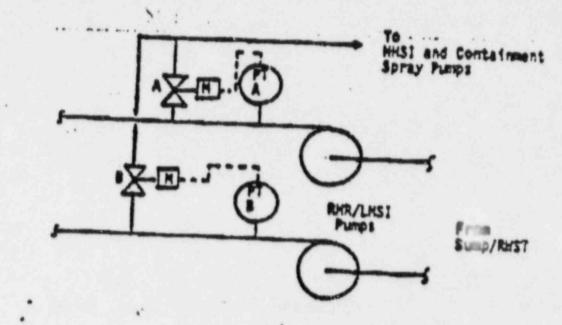
R. S. Pollock (W-Raleigh)

R. S. Pollock (W-Raleigh)

E. J. Mapner (CP&L)

THE MARKET

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TYPICAL ARRANGEMENT

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