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SUBJECT: Responds to 881208 request re design of automatic depressurization sys design.

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MONTICELLO NUCLEAR GENERATING PLANT
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AUTOMATIC DEPRESSURIZATION SYSTEM DESIGN

In response to your December 8, 1988 request, the design of the Monticello Automatic Depressurization System was evaluated. The results of the evaluation are provided in an attachment to this letter. The evaluation concluded that loss of any one of the power supplies for the Automatic Depressurization System will not disable the system. We have concluded that no design deficiency, similar to the one identified in your letter of December 8, 1988, exists at Monticello.

Please contact us, if you have addition questions or comments on this issue.

David Musolf
Manager Nuclear Support Services

c: Regional Administrator-III, NRC
NRR Project Manager, NRC
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Attachment

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MONTICELLO NUCLEAR GENERATING PLANT

Automatic Depressurization System Design

Automatic Depressurization System (ADS) power supplies are shown in Figure 1. All power sources are from the 125 VDC or 250 VDC Batteries. There are two 125 VDC batteries, Division I and Division II. There are also two 250 VDC batteries, Division I and Division II. The 250 VDC batteries have center taps so that 125 VDC loads can be supplied from the 250 VDC batteries. All of the ADS loads are 125 VDC. Loss of any one of these four power supplies will not disable the ADS system.

The loss of Division I 125 VDC battery will disable the Channel A logic and cause the control power for the valves to shift to the Division II 125 VDC battery. Since the valves have control power and the Channel B logic and instruments have power, ADS will function properly.

Loss of Division II 125 VDC battery will disable the Channel B logic and the backup control power for the valves. Since the valves have control power from Division I and the Channel A logic and instruments have power, ADS will function properly.

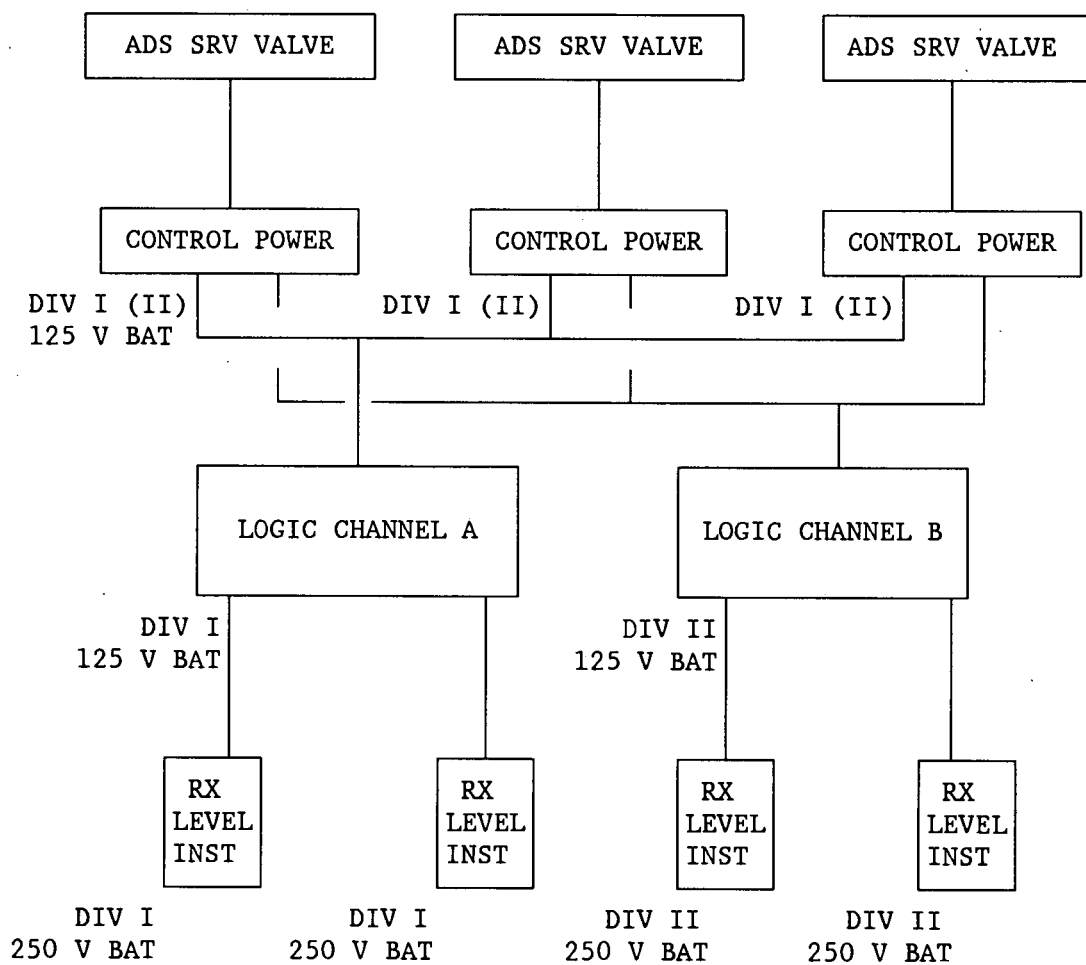
Loss of Division I 250 VDC battery will disable the reactor level instruments that supply level information to Channel A. Since the valves have control power and the Channel B logic and instruments are fully operable, ADS will function properly.

Loss of Division II 250 VDC battery will disable the reactor level instruments that supply level information to Channel B. Since the valves have control power and the Channel A logic and instruments are fully operable, ADS will function properly.

If one SRV should fail, the Automatic Depressurization System function would still be available because only two of the three safety relief valves are necessary for the system to fulfill its function.

FIGURE 1

AUTOMATIC DEPRESSURIZATION SYSTEM POWER SUPPLIES



ABBREVIATIONS:

(II) = AUTOMATIC BACKUP POWER SUPPLY FROM DIVISION II
 SRV = SAFETY RELIEF VALVE
 DIV I = DIVISION I POWER SUPPLY
 125 V BAT = 125 VOLT BATTERY
 ADS = AUTOMATIC DEPRESSURIZATION SYSTEM