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                          Office of Nuclear Reactor Regulation, Director

SUBJECT: Submits info on single loop operation issues identified during NRC review of 820702 Tech Spec change request, per NRC/LLL 830926 telcon. Multiple setpoints will not be used.

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September 29, 1983

Director  
Office of Nuclear Reactor Regulation  
U S Nuclear Regulatory Commission  
Washington, DC 20555

MONTICELLO NUCLEAR GENERATING PLANT  
Docket No. 50-263 License No. DPR-22

Single Loop Operation License Amendment  
Request Rev 1 Additional Information

- References
- 1) License Amendment Request Rev 1 submitted July 2, 1982
  - 2) Conference call on September 26, 1983 between NRC, NSP and Lawrence Livermore Laboratories.

Two issues related to single loop operation were identified by the NRC Staff during their review of our Technical Specification change request (reference 1):

Describe how the change from normal two recirculation cooling loop operation to one loop operation would be accomplished, with what physical and administrative controls, and while complying with branch technical position EICSB 12 regarding multiple setpoints and their control, and with IEEE STD 279-4.15.

Describe changes made to the flow computer to automatically account for magnitude and sense change for reverse flow in the idle loop jet pumps during single loop operation.

These issues were discussed during a recent telephone conference call (reference 2). The purpose of this letter is to document the information provided during this call.

The Monticello technical staff will write a procedure which administratively implements the requirements of the new technical specifications. The multiple setpoints will not be used. Rather the APRM Scram and Rod Block settings would be effectively reset by gain adjustment. An independent verification of the new gain settings for single loop operation will be made by an individual with equal or greater knowledge or by the shift supervisor on the next shift.

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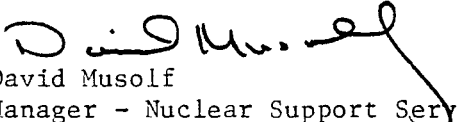
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The APRM Scram and Rod Block flow bias is generated by circuitry which measures driving flow. The circuitry is calibrated such that during normal two loop operation, 100% drive flow equals rated core flow. However, in the case of single loop operation, the relationship of the drive flow to rated core flow is affected by the back flow through the idle jet pumps. Therefore, the APRM Scram and Rod Block settings are reduced by a conservative factor ( $d_w=5.4$ ) to account for the reduced flow conditions in single loop operation. With this factor applied, no further changes are required in the driving flow measurement system.

We believe this information will allow the NRC Staff to complete their review of this license amendment request. Please contact us if you have any questions related to this matter.

  
David Musolf  
Manager - Nuclear Support Services

DMM/SAF/js

cc: Regional Administrator-III  
NRR Project Manager, NRC  
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