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Docket No. 50-339

MEMORANDUM FOR: Olan Parr, Chief, Auxiliary Systems Branch, DSI
 FROM: Themis P. Speis, Chief, Reactor Systems Branch, DSI
 SUBJECT: NORTH ANNA 2 - AFW FLOW REQUIREMENTS

The Reactor Systems Branch has reviewed the response by North Anna 2 to the NRC information request of March 10, 1980 relating to the basis for auxiliary feedwater flow requirements. Our comments are as follows:

1. The auxiliary feedwater system must have a capacity to supply 60 gallons per minute total to two steam generators following a loss of feedwater event (station blackout).
2. The auxiliary feedwater system must have a capacity to supply 340 gallons per minute to one steam generator following a feedwater line break event. The licensing analysis assumes operator action after 30 minutes to properly distribute a flow of 880 gallons per minute to two steam generators.
3. The auxiliary feedwater system must be guaranteed to satisfy the flow requirements listed in items 1 & 2 above for the appropriate initiating event considering the Auxiliary Systems Branch failure criteria for the auxiliary feedwater system.
4. The Reactor Systems Branch considerations impose no upper bound for maximum permissible auxiliary feedwater flow rate for this plant; however, an upper limit may be set based upon another branch's criteria, for example, Containment Systems Branch. Containment Systems Branch may be consulted to verify maximum permissible auxiliary feedwater flow rate.

Themis P. Speis, Chief
 Reactor Systems Branch
 Division of Systems Integration

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