



Virginia Electric and Power Company  
North Anna Power Station, Unit #1  
Docket No. 50-338  
Attachment to LER 80-061/01X-1

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#### Description of Event

On July 8, 1980, during review of auxiliary feedwater pump flow margins, Stone & Webster determined by fluid calculations that under certain accident conditions auxiliary feedwater pump 1-FW-P-3B may be unable to deliver the design flow of 340 gpm to its steam generator. It is estimated that the pump would deliver a total flow of about 355 gpm of which approximately 20 gpm would be recirculated to the Emergency Condensate Storage Tank and 335 gpm would be delivered to the steam generator. This event is reportable pursuant to T.S. 6.9.1.8.i.

#### Probable Consequences of Event

Because of the redundancy in the auxiliary feedwater system and the fact that pump 1-FW-P-3B was capable of supplying at least 335 gpm flow to its steam generator, the health and safety of the general public were not affected.

#### Cause of Event

The cause of this discrepancy in auxiliary feedwater system design is not known at this time.

#### Immediate Corrective Action

An evaluation was performed to determine the necessary corrective action. During this review it was determined that actual pump data is essential in evaluating the pump's performance since system head loss calculations often predict higher losses than those measured in actual tests.

#### Scheduled Corrective Action

Auxiliary feedwater pump 1-FW-P-3B will undergo extensive testing in the near future to determine the actual flow capacity of the pump. If test results indicate that an actual low flow condition exists, further corrective actions will be initiated. Initially, it had been decided to operate with the pump recirculation valve closed and a standing order was issued to that effect. Subsequently, it was decided to operate with the recirc. valve open based on the fact that the flow was only 1½% low and testing would be done in the near future. As a result, the standing order was rescinded.

#### Actions Taken to Prevent Recurrence

No further actions are required.

#### Generic Implications

Unit 2 auxiliary feedwater pump flow margins have been calculated and are satisfactory. Therefore, there are no generic implications associated with this event.