

Virginia Electric and Power Company
North Anna Power Station, Unit #1
Docket No. 50-338
Report No. LER 79-077/03L-0

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Description of Event:

On 5-31-79, during a power reduction, the Axial Flux Difference deviated greater than 5% from the target for a 10 minute duration. This is in violation of T.S. 3.2.1.

Since there was less than one hour penalty accumulation, operation was allowed to continue as per action statement a.2 of T.S. 3.2.1.

This event is reportable as per T.S. 6.9.1.9.b.

Probable Consequences of Occurrence:

Surveillance of the Axial Flux Difference assures that the limits of the heat flux hot channel factor are not exceeded during normal operation or in the event of Xenon redistribution following power changes. This provides protection against exceeding the DNBR and peak fuel clad temperatures.

Since the AFD was returned to its limit within the time allotted, there was no effect on the safe operation of the plant. As a result, the public health and safety was not affected.

Cause of Occurrence:

The AFD deviation was a result of a rapid power reduction necessitated by a high bearing temperature on the feedwater pump "C".

Immediate Corrective Action:

The reactor operator restored the AFD to within the target band by a RCS boration.

Scheduled Corrective Action:

No further corrective action required.

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Actions Taken to Prevent Recurrence:

No further actions are required.