

Virginia Electric and Power Company
North Anna Power Station, Unit 1
Docket No. 50-338
Report No. LER 79-104/01T-0

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Description of Event

During a review of containment penetration breaker protection, prompted by NRC letter "Staff Position on Electrical Protection of Containment Penetrations for North Anna Unit 2", Veeco discovered that the feeder breakers to many of the penetrations are improperly set to protect the penetration's integrity for overloads beyond the continuous rating of the penetration.

Probable Consequences of Occurrence

Consequences of this event were minimal because leakage would be minor if a seal or penetration failed as a result of an overcurrent condition. Also, due to the existing protection scheme, an overcurrent condition beyond the rating of the penetration will result in a breaker trip. No breaker trip related to this problem has occurred to date. Therefore, the public health and safety were not affected by this event. The electrical penetrations for Unit 2 are similarly affected.

Cause

The cause of this problem is that intermediate faults or overloads slightly beyond the continuous rating of the penetration were overlooked and not considered in the original design analysis.

Immediate Corrective Action

Further investigation is being performed to determine the exact breakers that are affected and the corrective actions necessary to modify each one of them.

Scheduled Corrective Actions

To be determined by the investigation.

Actions Taken to Prevent Recurrence

No further actions required.

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