

Virginia Electric and Power Company
North Anna Power Station, Unit #2
Docket No. 50-339
Report No. LER 81-046/03L-0

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Description of Event

On June 7, 1981, with the unit in Mode 1, the Control Room operator observed a greater than 12 step disagreement between the Individual Rod Position Indicator (IRPI) for rod K02 in Control Bank "A" and the group demand indication.

Probable Consequences of Occurrence

Operability of control rod position indication is required to determine rod position and thereby ensure compliance with the control rod alignment and insertion limits. Since the control rod was not misaligned and the position indication was properly restored within two hours, there was no effect on the safe operation of the plant. As a result, the health and safety of the general public were not affected.

Cause of Event

The cause of the disagreement in rod position indication was instrument drift. This drift can be caused by changes in the temperature of the rod drive line, changes in the frequency of the excitation source, and by changes in secondary loadings.

Immediate Corrective Action

The rod position indicator channel for rod K02 was satisfactorily recalibrated and returned to service.

Scheduled Corrective Action

A long term investigation into the problems associated with the IRPI system is in progress. No further corrective action is scheduled until an adequate design modification is developed and proven effective.

Actions Taken to Prevent Recurrence

No further actions are required at this time.

Generic Implications

Rod position indicator drift is a generic problem with the Westinghouse Analog rod position indication system. This system is used in North Anna Units 1 and 2.