

3.11 MOVABLE INCORE INSTRUMENTATION

Applicability

Applies to the operability of the movable detector instrumentation system.

Objective

To specify functional requirements on the use of the incore instrumentation system, for the recalibration of the excore axial off-set detection system.

Specification

- A. A minimum of 2 thimbles per quadrant and sufficient movable incore detectors shall be operable during recalibration of the excore axial off-set detection system.
- B. Power shall be limited to 90% of rated power if recalibration requirements for the excore axial off-set detection system, identified in Table 4.1-1, are not met.
- C. During the incore/excore calibration procedure, all full core flux maps will be made only when at least 38 of the movable detector guide thimbles are operable.

Basis

The Movable Incore Instrumentation System⁽¹⁾ has six drives, six detectors, and 58 movable detector guide thimbles in the core. Fifty (50) of these thimbles were provided as part of the original design basis of the plant. The other eight thimbles are supplemental thimbles that were connected during the 8/9 refueling outage. The eight supplemental thimbles are maintained to the same standards as the original 50 thimbles. These eight supplemental thimbles can be used to satisfy the 38 thimble requirement for flux mapping. An appropriate evaluation will be performed prior to the initial use of the supplemental thimbles to satisfy technical specification requirements for flux mapping. The eight supplemental thimbles improve the reliability of the Movable Incore Instrumentation System. Each of the six movable incore detectors can be routed to sixteen or more thimbles. Consequently, the full system has a great deal more capability than would be needed for the calibration of the excore detectors.

To calibrate the excore detectors, it is only necessary that the Movable Incore Instrumentation System be used to determine the gross power distribution in the core as indicated by the power balance between the top and bottom halves of the core.

3.11-1

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