

ATTACHMENT 2 TO AEP:NRG:1248

EXISTING TECHNICAL SPECIFICATION
PAGES MARKED TO REFLECT PROPOSED CHANGES

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LIMITING CONDITIONS FOR OPERATION AND SURVEILLANCE REQUIREMENTS

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REACTIVITY CONTROL SYSTEMS

POSITION INDICATOR CHANNELS-SHUTDOWN

LIMITING CONDITION FOR OPERATION

3.1.3.3 At least one rod position indicator channel (excluding demand position indication) shall be OPERABLE for each shutdown or control rod not fully inserted.

APPLICABILITY: MODES 3*†, 4*† and 5*†

ACTION:

With less than the above required position indicator channel(s) OPERABLE, immediately open the reactor trip system breakers.

SURVEILLANCE REQUIREMENTS

4.1.3.3 Each of the above required rod position indicator channel(s) shall be determined to be OPERABLE by performance of a CHANNEL FUNCTIONAL TEST at least once per 18 months.†

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~~*With the reactor trip system breakers in the closed position.~~

~~†See Special Test Exception 3.10.5.~~

~~†The provisions of Technical Specification 4.0.8 are applicable.~~

SPECIAL TEST EXCEPTION

POSITION INDICATOR CHANNELS SHUTDOWN

LIMITING CONDITION FOR OPERATION

3.10.5 The limitations of Specification 3.1.3.3 may be suspended during the performance of individual full length (shutdown and control) rod drop time measurements provided;

- a. Only one shutdown or control bank is withdrawn from the fully inserted position at a time, and
- b. The demand position indication system is OPERABLE* during the withdrawal of the rods, and
- c. The rod position indicator is OPERABLE* during the withdrawal of the rods.

APPLICABILITY: MODES 3, 4 and 5 during performance of rod drop time measurements.

ACTION:

With the rod position indicator channels or the demand position indication system not OPERABLE*, or more than one bank of rods withdrawn, immediately open the reactor trip breakers.

SURVEILLANCE REQUIREMENTS

4.10.5.1 The demand position indication system shall be determined to be OPERABLE* by verifying the demand position indication system is responsive to a rod movement demand signal during withdrawal.

4.10.5.2 The rod position indicator channels shall be determined to be OPERABLE* by verifying the rod position indicator channels indicate rod movement during withdrawal.

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~~*OPERABILITY for this Technical Specification is defined by the above Surveillance Requirements.~~

3/4.10 SPECIAL TEST EXCEPTIONS

BASES

3/4.10.1 SHUTDOWN MARGIN

This special test exception provides that a minimum amount of control rod worth is immediately available for reactivity control when tests are performed for control rod worth measurement. This special test exception is required to permit the periodic verification of the actual versus predicted core reactivity condition occurring as a result of fuel burnup or fuel cycling operations.

3/4.10.2 GROUP HEIGHT, INSERTION, AND POWER DISTRIBUTION LIMITS

This special test exception permits individual control rods to be positioned outside of their normal group heights and insertion limits during the performance of such PHYSICS TESTS as those required to 1) measure control rod worth and 2) determine the reactor stability index and damping factor under xenon oscillation conditions.

3/4.10.3 PHYSICS TESTS

This special test exception permits PHYSICS TESTS to be performed at less than or equal to 5% of RATED THERMAL POWER and is required to verify the fundamental nuclear characteristics of the reactor core and related instrumentation.

3/4.10.4 REACTOR COOLANT LOOPS

This special test exception permits reactor criticality under no flow conditions and is required to perform certain startup and PHYSICS TESTS while at low THERMAL POWER levels.

~~3/4.10.5 POSITION INDICATOR CHANNEL SHUTDOWN~~

~~This special test exception permits the position indicator channels to be inoperable during rod drop time measurements. The exception is required since the data necessary to determine the rod drop time is derived from the induced voltage in the position indicator coils as the rod is dropped. This induced voltage is small compared to the normal voltage and therefore can not be observed if the position indicator channels remain OPERABLE.~~

ATTACHMENT 3 TO AEP:NRC:1248

PROPOSED REVISED
TECHNICAL SPECIFICATION PAGES

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3/4 BASES

3/4.10 SPECIAL TEST EXCEPTIONS

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