

**Industry/TSTF Standard Technical Specification Change Traveler**

**Revise the Bases of the Source Range Neutron Flux Spec. to Correctly Describe Required Actions**

Classification: 4) Change Bases

NUREGs Affected:  1430  1431  1432  1433  1434

**Description:**

The Bases for Condition B of LCO 3.3.9 are revised from "place the reactor in the next lowest condition for which source range instrumentation is not required" to "take actions to limit the possibilities for adding positive reactivity."

**Justification:**

The LCO 3.3.9 Bases associated with Required Actions B.1 through B.4 are revised to correctly describe the Required Actions. The NUREG Bases, as written, implied that these Required Actions would remove the unit from the Applicability of this LCO. These Required Actions do not remove the unit from the Applicability of the LCO, but rather provide actions to limit positive reactivity additions and to detect any changes in SDM.

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**Revision History**

<b>OG Revision 0</b>	<b>Revision Status: Active</b>	<b>Next Action: NRC</b>
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Revision Proposed by: ANO-1

Revision Description:  
Original Issue

**Owners Group Review Information**

Date Originated by OG: 09-Mar-98

Owners Group Comments  
ANO-1-057

Owners Group Resolution: Approved Date: 09-Mar-98

**TSTF Review Information**

TSTF Received Date: 09-Mar-98 Date Distributed for Review 28-May-98

OG Review Completed:  BWOG  WOG  CEOG  BWROG

TSTF Comments:  
BWOG only

TSTF Resolution: Approved Date: 10-Jul-98

**NRC Review Information**

NRC Received Date: 13-Nov-98 NRC Reviewer:

NRC Comments:  
(No Comments)

Final Resolution: NRC Action Pending Final Resolution Date:

11/10/98

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**Incorporation Into the NUREGs**

File to BBS/LAN Date:

TSTF Informed Date:

TSTF Approved Date:

NUREG Rev Incorporated:

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**Affected Technical Specifications**

Action 3.3.9.B Bases

Source Range Neutron Flux

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11/10/98

TSTF-293

BASES

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ACTIONS

A.1 (continued)

instrumentation is to delay increasing reactor power until the channel is repaired and restored to OPERABLE status. This limits power increases in the range where the operators rely solely on the source range instrumentation for power indication. The Completion Time ensures the source range is available prior to further power increases. Furthermore, it ensures that power remains below the point where the intermediate range channels provide primary protection until both source range channels are available to support the overlap verification required by SR 3.3.9.4.

B.1, B.2, B.3, and B.4

With both source range neutron flux channels inoperable with THERMAL POWER  $\leq 1E-10$  amp on the intermediate range neutron flux instrumentation, the operators must place the reactor in the next lowest condition for which source range instrumentation is not required. This is done by immediately suspending positive reactivity additions, initiating action to insert all CONTROL RODS, and opening the CONTROL ROD drive trip breakers within 1 hour. Periodic SDM verification of  $\geq 1\% \Delta k/k$  is then required to provide a means for detecting the slow reactivity changes that could be caused by mechanisms other than control rod withdrawal or operations involving positive reactivity changes. Since the source range instrumentation provides the only reliable direct indication of power in this condition, the operators must continue to verify the SDM every 12 hours until at least one channel of the source range instrumentation is returned to OPERABLE status. Required Action B.1, Required Action B.2, and Required Action B.3 preclude rapid positive reactivity additions. The 1 hour Completion Time for Required Action B.3 and Required Action B.4 provides sufficient time for operators to accomplish the actions. The 12 hour Frequency for performing the SDM verification ensures that the reactivity changes possible with CONTROL RODS inserted are detected before SDM limits are challenged.

take actions to limit the possibilities for adding positive reactivity.

C.1

With reactor power  $> 1E-10$  amp in MODE 2, 3, 4, or 5 on the intermediate range neutron flux instrumentation, continued

(continued)