Industry/TSTF Standard Technical Specification Change Traveler

Revise SR 3.2.2.2 for consistency with SR 3.1.4.4

Priority/Classification 2) Consistency/Standardization

NUREGs Affected: ☐ 1430 ☐ 1431 ☐ 1432 ☑ 1433 ☐ 1434

Description:

A revision is proposed to SR 3.2.2.2 for determining MCPR limits after performance of scram time testing under SR 3.1.4.4 by adding a new requirement to SR 3.2.2.2. Existing SR requirements only specify determining the scram time parameter when control rods are scram time tested after refueling and extended outages (SR 3.1.4.1) and after the periodic on-line scram time testing (SR 3.1.4.2). however, there is no current requirement to evaluate the impact of the scram time parameter after performing scram time testing after maintenance on individual control rods or the CRD system as required by SR 3.1.4.4. While it is not likely that the scram time parameter will be affected as, generally, not many control rods are required to be tested under SR 3.1.4.4 at any one time, there is no limit to the number of control rods that could be potentially tested, such that the scram time parameter might be affected.

Justification:

The proposed change will introduce consistency of application of SR 3.2.2.2 between the scram time requirements of SRs 3.1.4.1, 3.1.4.2, and 3.1.4.4. Currently, there is no requirement to evaluate the effect on the scram time parameter after performing scram time testing after maintenance on individual control rods or the CRD system as required by SR 3.1.4.4. While it is not likely that the scram time parameter will be affected as, generally, not many control rods are required to be tested under SR 3.1.4.4 at any one time, there is no limit to the number of control rods that could be potentially tested, such that the scram time parameter might be affected. Thus, the addition of the requirement in SR 3.2.2.2 to determine the MCPR limits within 72 hours after performance of SR 3.1.4.4 will introduce consistency with the existing requirements in SR 3.2.2.2. (NOTE: it is not necessary to add the requirement to perform SR 3.2.2.2 after performance of scram time testing per SR 3.1.4.3 (reduced RPV pressure testing), as the affected rods will have to be re-tested per SR 3.1.4.4, once reactor steam dome pressure exceeds [800] psig and prior to exceeding 40% RTP.)

Revision History

OG Revision 0 **Revision Status: Active** **Next Action: NRC**

Revision Proposed by: Duane Arnold

Revision Description:
Original Issue

Owners Group Review Information

Date Originated by OG: 25-Feb-97

Owners Group Comments
(No Comments)

Owners Group Resolution: Approved Date: 25-Feb-97

TSTF Review Information

TSTF Received Date: 27-Apr-97 Date Distributed for Review 15-Jan-98

OG Review Completed: ☑ BWOG ☑ WOG ☑ CEOG ☑ BWROG

TSTF Comments:
Originally distributed on 5/16/97.

PWRs, BWR/6 - Not applicable, OK

TSTF Resolution: Approved Date: 05-Feb-98

Incorporation Into the NUREGs

File to BBS/LAN Date: TSTF Informed Date: TSTF Approved Date:

NUREG Rev Incorporated:

Affected Technical Specifications

SR 3.2.2.2	MCPR
SR 3.2.2.2 Bases	MCPR

TSTF-229

SURVEILLANCE REQUIREMENTS (continued)

SURVEILLANCE	FREQUENCY
SR 3.2.2.2 Determine the MCPR limits.	Once within 72 hours after each completion of SR 3.1.4.1 AND Once within 72 hours after each completion of SR 3.1.4.2

AND

Once within 72 hours after each completion of SR 3.1.4.4

SURVEILLANCE REQUIREMENTS

SR 3.2.2.1 (continued)

recognition of the slowness of changes in power distribution during normal operation. The 12 hour allowance after THERMAL POWER ≥ 25% RTP is achieved is acceptable given the large inherent margin to operating limits at low power levels.

SR 3.2.2.2

Because the transient analysis takes credit for conservatism in the scram speed performance, it must be demonstrated that the specific scram speed distribution is consistent with that used in the transient analysis. SR 3.2.2.2 determines the value of τ, which is a measure of the actual scram speed distribution compared with the assumed distribution. The MCPR operating limit is then determined based on an interpolation between the applicable limits for Option A (scram times of LCO 3.1.4,"Control Rod Scram Times") and Option B (realistic scram times) analyses. The parameter τ must be determined once within 72 hours after each set of scram time tests required by SR 3.1.4.1 ~~and~~ SR 3.1.4.2 ~~or~~ because the effective scram speed distribution may change during the ~~cycle~~. The 72 hour Completion Time is acceptable due to the relatively minor changes in τ expected during the fuel cycle.

Or after maintenance that could affect scram times.

, and SR 3.1.4.4

REFERENCES

1. NUREG-0562, June 1979.
2. NEDO-24011-P-A, "General Electric Standard Application for Reactor Fuel" (latest approved version).
3. FSAR, Chapter [4].
4. FSAR, Chapter [6].
5. FSAR, Chapter [15].
6. [Plant specific single loop operation].
7. [Plant specific load line limit analysis].

(continued)