Industry/TSTF Standard Technical Specification Change Traveler

Add Note Crediting CEA Drop Time SR for CEA Trip from 50% Withdrawn SR

Priority/Classification 3) Improve Specifications

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

Description:

SR 3.1.8.2 (Analog), 3.1.9.2 (Digital) verifies that each CEA not fully inserted is capable of full insertion when tripped from at least 50% withdrawn position. A Note was added to this SR which allows the SR to not be performed during initial power escalation following a refueling outage if SR 3.1.5.7 (Analog), 3.1.5.5 (Digital) has been met.

Justification:

SR 3.1.8.2 (Analog), 3.1.9.2 (Digital) is performed to provide assurance that the CEA will trip from at least the 50% position prior to reducing SDM to less than the limits of LCO 3.1.1. The requirement to perform the SR within 7 days prior to reducing SDM provides assurance that no maintenance has been performed which could interfere with the CEA's ability to trip. The added Note allows credit to be taken for the CEA drop time test (3.1.5.7 Analog, 3.1.5.5 Digital) if it has been performed during initial power escalation following a refueling outage. The CEA drop time test proves trippability and is required to be performed after each reactor vessel head removal. This ensures that the test is performed after any maintenance which could affect the CEA drop times. Therefore, performance of the CEA drop test is adequate to prove that the CEAs will trip from the 50% withdrawn position.

In addition, "once" was added to the SR frequency as an administrative change to clarify that the SR is only performed once and not on a periodic basis.

Revision History

OG Revision 0 Revision Status: Closed

Revision Proposed by: Calvert Cliffs

Revision Description:
Original Issue

Owners Group Review Information

Date Originated by OG: 29-May-96

Owners Group Comments
(No Comments)

Owners Group Resolution: Approved Date: 04-Jun-96

TSTF Review Information

TSTF Received Date: 01-Jul-96 Date Distributed for Review 31-Jul-96

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

TSTF Comments:

BWOG - Not applicable, BWOG accepts
WOG - Not applicable, WOG accepts
BWROG - Not applicable, BWROG accepts

TSTF Resolution: Approved Date: 10-Oct-96

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NRC Review Information

NRC Received Date: 22-Jan-97 NRC Reviewer: Tjader, R.

NRC Comments:

2/28/97 - Reviewer recommended modification. Do not delete frequency requirement.
3/6/97 - To C. Grimes for disposition.
3/18/97 - TSTF agreed to consider change.
4/16/97 - NRC comments: It appears that the Traveler should reference SR 3.1.5.7, not SR 3.1.5.6. In addition, the Note is incomplete because it does not specify when the SR "has been met." Need to make clear that the test must have been performed during the same outage.

Final Resolution: Superceded by Revision Final Resolution Date: 11-Jan-98

TSTF Revision 1 Revision Status: Active Next Action: NRC

Revision Proposed by: TSTF

Revision Description:
Revised to address NRC comments. Corrected SR numbers in description and justification. Modified the Bases inserts for SR 3.1.8.2 and 3.1.9.2 to make clear that test must have been performed during the same outage.

TSTF Review Information

TSTF Received Date: 11-Jan-98 Date Distributed for Review 15-Jan-98

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

TSTF Comments:

Address the analog and digital differences. 3.1.8 - Analog, 3.1.9 - Digital, SR 3.1.5.7 - Analog, 3.1.5.5 - Digital. Fix two inserts. Modify description and justification.

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 3.1.8.2	STE - SDM (Analog)
SR 3.1.8.2 Bases	STE - SDM (Analog)
SR 3.1.9.2	STE - SDM (Digital)
SR 3.1.9.2 Bases	STE - SDM (Digital)

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INSERT A (Analog)

The SR is modified by a Note which allows the SR to not be performed during initial power escalation following a refueling outage if SR 3.1.5.7 has been met during that refueling outage. This allows the CEA drop time test, which also proves the CEAs are trippable, to be credited for this SR.

INSERT D (Digital)

The SR is modified by a Note which allows the SR to not be performed during initial power escalation following a refueling outage if SR 3.1.5.5 has been met during that refueling outage. This allows the CEA drop time test, which also proves the CEAs are trippable, to be credited for this SR.

BASES

ACTIONS

A.1 (continued)

boration allows the operator sufficient time to align the valves and start the boric acid pumps and is consistent with the Completion Time of LCO 3.1.1.

SURVEILLANCE REQUIREMENTS

SR 3.1.8.1

Verification of the position of each partially or fully withdrawn full length or part length CEA is necessary to ensure that the minimum negative reactivity requirements for insertion on a trip are preserved. A 2 hour Frequency is sufficient for the operator to verify that each CEA position is within the acceptance criteria.

SR 3.1.8.2

Prior demonstration that each CEA to be withdrawn from the core during PHYSICS TESTS is capable of full insertion, when tripped from at least a 50% withdrawn position, ensures that the CEA will insert on a trip signal. The [7 days] Frequency ensures that the CEAs are OPERABLE prior to reducing SDM to less than the limits of LCO 3.1.1.

Insert A

REFERENCES

1. 10 CFR 50, Appendix B, Section XI.
2. 10 CFR 50.59.
3. Regulatory Guide 1.68, Revision 2, August 1978.
4. ANSI/ANS-19.6.1-1985, December 13, 1985.
5. FSAR, Chapter [14].
6. 10 CFR 50.46.
7. FSAR, Chapter [14].

TSTF-134, Rev. 1

SURVEILLANCE REQUIREMENTS

	SURVEILLANCE	FREQUENCY
SR 3.1.8.1	Verify that the position of each CEA not fully inserted is within the acceptance criteria for available negative reactivity addition.	2 hours Once
SR 3.1.8.2	Verify that each CEA not fully inserted is capable of full insertion when tripped from at least the 50% withdrawn position.	Within [7 days] prior to reducing SDM to less than the limits of LCO 3.1.1

NOTE
Not required to be performed during initial power escalation following a refueling outage if SR 3.1.5.7 has been met.

TSTF-134, Rev. 1

SURVEILLANCE REQUIREMENTS

SURVEILLANCE		FREQUENCY
SR 3.1.9.1	Verify that the position of each CEA not fully inserted is within the acceptance criteria for available negative reactivity addition.	2 hours
SR 3.1.9.2	Verify each full length CEA not fully inserted is capable of full insertion when tripped from at least the 50% withdrawn position.	Once within [7 days] prior to reducing SDM to less than the limits of LCO 3.1.1

NOTE
Not required to be performed during initial power escalation following a refueling outage if SR 3.1.5.5 has been met.

TSTF-134, Rev 1

BASES

ACTIONS

A.1 (continued)

for initiating boration allows the operator sufficient time to align the valves and start the boric acid pumps and is consistent with the Completion Time of LCO 3.1.1.

SURVEILLANCE REQUIREMENTS

SR 3.1.9.1

Verification of the position of each partially or fully withdrawn full length or part length CEA is necessary to ensure that the minimum negative reactivity requirements for insertion on a trip are preserved. A 2 hour Frequency is sufficient for the operator to verify that each CEA position is within the acceptance criteria.

SR 3.1.9.2

Prior demonstration that each CEA to be withdrawn from the core during PHYSICS TESTS is capable of full insertion, when tripped from at least a 50% withdrawn position, ensures that the CEA will insert on a trip signal. The 7 day Frequency ensures that the CEAs are OPERABLE prior to reducing SDM to less than the limits of LCO 3.1.1.

Insert D

REFERENCES

1. 10 CFR 50, Appendix B, Section XI.
2. 10 CFR 50.59.
3. Regulatory Guide 1.68, Revision 2, August 1978.
4. ANSI/ANS-19.6.1-1985, December 13, 1985.
5. FSAR, Chapter 14.
6. 10 CFR 50.46.
7. FSAR, Chapter 15.