
Industry/TSTF Standard Technical Specification Change Traveler

Add Note to SR 3.3.1.8 and SR 3.3.1.9 excluding neutron detectors

Priority/Classification 1) Correct Specifications

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

Description:

A Note is added to SR 3.3.1.8 (Refueling interval RPS Channel Calibration) and SR 3.3.1.9 (RPS Response Time testing) which excludes neutron detectors from the Channel Calibration.

Justification:

This change is required to clarify that neutron detectors are excluded from the Channel Calibration. This is justified because the neutron detectors have minimal drift. Slow changes in detector sensitivity are compensated for by performing daily calorimetric calibrations and monthly linear subchannel gain checks. Also a discussion for this Note exists in the Bases for this SR. This change is consistent with Channel Calibrations for other instruments which utilize the excore neutron detectors (Sections 3.3.2 and 3.3.10).

Neutron detectors are also excluded from RPS response time testing. Neutron detectors are passive devices with minimal drift and it is difficult to simulate a meaningful signal. This is consistent with the Digital 3.3.1 surveillances.

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

Revision Proposed by: Calvert Cliffs

Revision Description:
Original Issue

Owners Group Review Information

Date Originated by OG: 14-Mar-96

Owners Group Comments
(No Comments)Owners Group Resolution: Approved Date: 14-Mar-96

TSTF Review Information

TSTF Received Date: 12-Apr-96

Date Distributed for Review 12-Apr-96

OG Review Completed: ☒ BWOG ☒ WOG ☒ CEOG ☒ BWROG**TSTF Comments:**

NA WOG, BWOG, BWRs, but BWOG suggests examining SR 3.3.1.9 for applicability

TSTF Resolution: Approved Date: 14-May-96

NRC Review Information

NRC Received Date: 17-Jul-96

NRC Reviewer: C. Schulten

NRC Comments:

9/18/96 - Review pending.

10/31/96 - Reviewer recommends approval and referred to HICB for concurrence.

3/18/97 - No change in status.

Final Resolution: NRC Approves

Final Resolution Date: 16-Sep-97

4/2/98

Incorporation Into the NUREGs

File to BBS/LAN Date:

TSTF Informed Date:

TSTF Approved Date:

NUREG Rev Incorporated:

Affected Technical Specifications

SR 3.3.1.8 RPS Instrumentation - Operating (Analog)

SR 3.3.1.9 RPS Instrumentation - Operating (Analog)

SR 3.3.1.9 Bases RPS Instrumentation - Operating (Analog)

4/2/98

SURVEILLANCE REQUIREMENTS (continued)

SURVEILLANCE	FREQUENCY
SR 3.3.1.4 Perform a CHANNEL FUNCTIONAL TEST of each RPS channel except Loss of Load and Power Rate of Change.	[92] days
SR 3.3.1.5 -----NOTE----- Neutron detectors are excluded from CHANNEL CALIBRATION. ----- Perform a CHANNEL CALIBRATION on excore power range channels.	92 days
SR 3.3.1.6 Perform a CHANNEL FUNCTIONAL TEST of each Power Rate of Change channel and each Loss of Load functional unit.	Once within 7 days prior to each reactor startup
SR 3.3.1.7 Perform a CHANNEL FUNCTIONAL TEST on each automatic bypass removal function.	Once within 92 days prior to each reactor startup
SR 3.3.1.8 Perform a CHANNEL CALIBRATION of each RPS instrument channel, including bypass removal functions.	[18] months
SR 3.3.1.9 Verify RPS RESPONSE TIME is within limits.	[18] months on a STAGGERED TEST BASIS

-----NOTE-----
 Neutron detectors are excluded from CHANNEL CALIBRATION.

-----NOTE-----
 Neutron detectors are excluded.

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BASES

SURVEILLANCE
REQUIREMENTS

SR 3.3.1.9 (continued)

occurrences. Also, response times cannot be determined at power, since equipment operation is required. Testing may be performed in one measurement or in overlapping segments, with verification that all components are tested.

REFERENCES

1. 10 CFR 50, Appendix A, GDC 21.
 2. 10 CFR 100.
 3. IEEE Standard 279-1971, April 5, 1972.
 4. FSAR, Chapter [14].
 5. 10 CFR 50.49.
 6. "Plant Protection System Selection of Trip Setpoint Values."
 7. FSAR, Section [7.2].
 8. NRC Safety Evaluation Report, [Date].
 9. CEN-327, June 2, 1986, including Supplement 1, March 3, 1989.
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A Note is added to indicate that the neutron detectors are excluded from RPS RESPONSE TIME testing because they are passive devices with minimal drift and because of the difficulty of simulating a meaningful signal. Slow changes in detector sensitivity are compensated for by performing the daily calorimetric calibration (SR 3.3.1.4).

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