

Industry/TSTF Standard Technical Specification Change Traveler

Allowance for S/RVs to be replaced with spare OPERABLE S/RVs having lower setpoints

Classification: 3) Improve Specifications

NUREGs Affected: 1430 1431 1432 1433 1434

Description:

Add the following bracketed Note to NUREG-1433, SR 3.4.3.1, "The number of S/RVs specified for each setpoint can be changed for two S/RVs provided the change results in S/RVs with lower setpoints." In addition, the Bases have been modified to add this note.

Justification:

This change provides operational flexibility while maintaining the assumptions of the overpressure analysis. Ensuring that the replaced S/RVS are maintained at the same or lower setpoints will maintain the assumptions of the overpressure analysis. This change is bracketed because each plant should review this proposed change to ensure that the assumptions of all plant analyses, including containment loading evaluations, are not affected by the change in the S/RV setpoints. If the allowance is bounded by the plant design analysis, the change provides operational flexibility with no effect on plant safety.

Industry Contact:	Ford, Bryan	(601) 437-6559	bford@entergy.com
NRC Contact:	Weston, Mag	301-314-3151	mww@nrc.gov

Revision History

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

Revision Proposed by: Susquehanna

Revision Description:
Original Issue

Owners Group Review Information

Date Originated by OG: 03-Nov-97

Owners Group Comments
(No Comments)

Owners Group Resolution: Approved Date: 03-Nov-97

TSTF Review Information

TSTF Received Date: 03-Nov-97 Date Distributed for Review 28-May-98

OG Review Completed: BWOG WOG CEOG BWROG

TSTF Comments:
(No Comments)

TSTF Resolution: Approved Date: 10-Jul-98

NRC Review Information

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

NRC Comments:
(No Comments)

11/10/98

OG Revision 0

Revision Status: Active

Next Action: NRC

Final Resolution: NRC Action Pending

Final Resolution Date:

Incorporation Into the NUREGs

File to BBS/LAN Date:

TSTF Informed Date:

TSTF Approved Date:

NUREG Rev Incorporated:

Affected Technical Specifications

SR 3.4.3.1 S/RVs NUREG(s)- 1433 Only

SR 3.4.3.1 Bases S/RVs NUREG(s)- 1433 Only

SR 3.4.4.1 S/RVs NUREG(s)- 1434 Only

SR 3.4.4.1 Bases S/RVs NUREG(s)- 1434 Only

11/10/98

INSERT 1

----- NOTE -----
≤ [2] [required] S/RVs may be changed
to a lower setpoint group.

INSERT 2

[A Note is provided to allow up to [two] of the required [11] S/RVs to be physically replaced with S/RVs with lower setpoints. This provides operational flexibility which maintains the assumptions in the over-pressure analysis.]

TSTF-298

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY								
<p>SR 3.4.3.1 Verify the safety function lift setpoints of the [required] S/RVs are as follows:</p> <div style="border: 1px solid black; border-radius: 15px; padding: 2px; display: inline-block; margin-left: 20px;">Insert 1</div> → <table style="margin-left: 100px; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; border-bottom: 1px solid black;">Number of S/RVs</th> <th style="text-align: center; border-bottom: 1px solid black;">Setpoint (psig)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">[4]</td> <td style="text-align: center;">[1090 ± 32.7]</td> </tr> <tr> <td style="text-align: center;">[4]</td> <td style="text-align: center;">[1100 ± 33.0]</td> </tr> <tr> <td style="text-align: center;">[3]</td> <td style="text-align: center;">[1110 ± 33.3]</td> </tr> </tbody> </table> <p style="margin-left: 100px;">Following testing, lift settings shall be within ± 1%.</p>	Number of S/RVs	Setpoint (psig)	[4]	[1090 ± 32.7]	[4]	[1100 ± 33.0]	[3]	[1110 ± 33.3]	<p>[In accordance with the Inservice Testing Program or [18] months]</p>
Number of S/RVs	Setpoint (psig)								
[4]	[1090 ± 32.7]								
[4]	[1100 ± 33.0]								
[3]	[1110 ± 33.3]								
<p>SR 3.4.3.2 -----NOTE----- Not required to be performed until 12 hours after reactor steam pressure and flow are adequate to perform the test. -----</p> <p>Verify each [required] S/RV opens when manually actuated.</p>	<p>[18] months [on a STAGGERED TEST BASIS for each valve solenoid]</p>								

BASES (continued)

SURVEILLANCE
REQUIREMENTSSR 3.4.3.1

This Surveillance requires that the [required] S/RVs will open at the pressures assumed in the safety analysis of Reference 1. The demonstration of the S/RV safe lift settings must be performed during shutdown, since this is a bench test[, to be done in accordance with the Inservice Testing Program]. The lift setting pressure shall correspond to ambient conditions of the valves at nominal operating temperatures and pressures. The S/RV setpoint is \pm [3]% for OPERABILITY; however, the valves are reset to \pm 1% during the Surveillance to allow for drift. ←

Insert 2

The 18 month Frequency was selected because this Surveillance must be performed during shutdown conditions and is based on the time between refuelings.

SR 3.4.3.2

A manual actuation of each [required] S/RV is performed to verify that, mechanically, the valve is functioning properly and no blockage exists in the valve discharge line. This can be demonstrated by the response of the turbine control valves or bypass valves, by a change in the measured steam flow, or by any other method suitable to verify steam flow. Adequate reactor steam dome pressure must be available to perform this test to avoid damaging the valve. Also, adequate steam flow must be passing through the main turbine or turbine bypass valves to continue to control reactor pressure when the S/RVs divert steam flow upon opening. Sufficient time is therefore allowed after the required pressure and flow are achieved to perform this test. Adequate pressure at which this test is to be performed is [920] psig (the pressure recommended by the valve manufacturer). Adequate steam flow is represented by [at least 1.25 turbine bypass valves open, or total steam flow $\geq 10^6$ lb/hr]. Plant startup is allowed prior to performing this test because valve OPERABILITY and the setpoints for overpressure protection are verified, per ASME Code requirements, prior to valve installation. Therefore, this SR is modified by a Note that states the Surveillance is not required to be performed until 12 hours after reactor steam pressure and flow are adequate to perform the test. The 12 hours allowed for manual actuation after the required pressure is reached is sufficient to achieve stable

(continued)

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY								
<p>SR 3.4.4.1 Verify the safety function lift setpoints of the [required] S/RVs are as follows:</p> <p><i>Insert 1</i> →</p> <table border="0"> <tr> <td style="text-align: center;"><u>Number of S/RVs</u></td> <td style="text-align: center;"><u>Setpoint (psig)</u></td> </tr> <tr> <td style="text-align: center;">[8]</td> <td style="text-align: center;">[1165 ± 34.9]</td> </tr> <tr> <td style="text-align: center;">[6]</td> <td style="text-align: center;">[1180 ± 35.4]</td> </tr> <tr> <td style="text-align: center;">[6]</td> <td style="text-align: center;">[1190 ± 35.7]</td> </tr> </table> <p>Following testing, lift settings shall be within ± 1%.</p>	<u>Number of S/RVs</u>	<u>Setpoint (psig)</u>	[8]	[1165 ± 34.9]	[6]	[1180 ± 35.4]	[6]	[1190 ± 35.7]	<p>[In accordance with the Inservice Testing Program or [18] months]</p>
<u>Number of S/RVs</u>	<u>Setpoint (psig)</u>								
[8]	[1165 ± 34.9]								
[6]	[1180 ± 35.4]								
[6]	[1190 ± 35.7]								
<p>SR 3.4.4.2 -----NOTE----- Valve actuation may be excluded. -----</p> <p>Verify each [required] relief function S/RV actuates on an actual or simulated automatic initiation signal.</p>	<p>[18] months</p>								
<p>SR 3.4.4.3 -----NOTE----- Not required to be performed until 12 hours after reactor steam pressure and flow are adequate to perform the test. -----</p> <p>Verify each [required] S/RV opens when manually actuated.</p>	<p>[18] months on a STAGGERED TEST BASIS for each valve solenoid</p>								

BASES

ACTIONS
(continued)

B.1 and B.2

With less than the minimum number of required S/RVs OPERABLE, a transient may result in the violation of the ASME Code limit on reactor pressure. [If the inoperable required S/RV cannot be restored to OPERABLE status within the associated Completion Time of Required Action A.1] or if [two] or more [required] S/RVs are inoperable, the plant must be brought to a MODE in which the LCO does not apply. To achieve this status, the plant must be brought to at least MODE 3 within 12 hours and to MODE 4 within 36 hours. The allowed Completion Times are reasonable, based on operating experience, to reach the required plant conditions from full power conditions in an orderly manner and without challenging plant systems.

SURVEILLANCE
REQUIREMENTS

SR 3.4.4.1

This Surveillance demonstrates that the [required] S/RVs will open at the pressures assumed in the safety analysis of Reference 2. The demonstration of the S/RV safety function lift settings must be performed during shutdown, since this is a bench test[, and in accordance with the Inservice Testing Program]. The lift setting pressure shall correspond to ambient conditions of the valves at nominal operating temperatures and pressures. The S/RV setpoint is \pm [3]% for OPERABILITY; however, the valves are reset to \pm 1% during the Surveillance to allow for drift. ← Insert 2

The [18 month] Frequency was selected because this Surveillance must be performed during shutdown conditions and is based on the time between refuelings.

SR 3.4.4.2

The [required] relief function S/RVs are required to actuate automatically upon receipt of specific initiation signals. A system functional test is performed to verify the mechanical portions of the automatic relief function operate as designed when initiated either by an actual or simulated initiation signal. The LOGIC SYSTEM FUNCTIONAL TEST in SR 3.3.6.5.4 overlaps this SR to provide complete testing of the safety function.

(continued)
