

Summary of Generic Changes to NUREG-1431, Standard Technical Specifications, Westinghouse Plants, Considered for Inclusion in the Westinghouse Advanced Passive 1000 (AP1000) Standard Technical Specifications, Revision 0

TSTF considered for inclusion in AP1000 STS	ADAMS Accession No.	TSTF Title	GTST for AP1000 STS Section or Subsection	AP1000 STS Section or Subsection Title	TSTF not applicable to AP1000 design or GTS Rev. 19	TSTF included in AP1000 STS	TSTF already included in GTS Rev. 19 with no variation	TSTF already included in GTS Rev. 19 with variation	TSTF deferred for future consideration	Comments (a)
None			1.2	Logical Connectors						
None			2.0	Safety Limits (SLs)						
None			3.1.1	SHUTDOWN MARGIN (SDM)						
None			3.1.2	Core Reactivity						
None			3.1.4	Rod Group Alignment Limits						
None			3.1.5	Shutdown Bank Insertion Limits						
None			3.1.6	Control Bank Insertion Limits						
None			3.1.8	PHYSICS TESTS Exceptions – MODE 2						
None			3.1.9	Chemical and Volume Control System (CVS) Demineralized Water Isolation Valves and Makeup Line Isolation Valves						Note that requirements for CVS makeup isolation valves in GTS Subsection 3.4.17 were moved to AP1000 STS Subsection 3.1.9 consistent with change to plant-specific TS for Vogtle Electric Generating Plant Units 3 and 4 (VEGP 3&4) by COL Amendment 13
None			3.2.2	Nuclear Enthalpy Rise Hot Channel Factor						
None			3.2.3	AXIAL FLUX DIFFERENCE (AFD) (Relaxed Axial Offset Control (RAOC) Methodology)						
None			3.2.5	OPDMS-Monitored Parameters						
None			3.3.19	Diverse Actuation System (DAS) Manual Controls						
None			3.4.1	RCS Pressure, Temperature, and Flow DNB Limits						
None			3.4.2	RCS Minimum Temperature for Criticality						
None			3.4.5	Pressurizer						
None			3.4.11	Automatic Depressurization System (ADS) – Operating						
None			3.4.12	Automatic Depressurization System (ADS) – Shutdown, RCS Intact						
None			3.4.13	Automatic Depressurization System (ADS) – Shutdown, RCS Open						
None			3.4.16	Reactor Vessel Head Vent (RVHV)						
None			[GTS 3.4.17]	Chemical and Volume Control System (CVS) makeup Isolation Valves						Note that requirements for CVS makeup isolation valves were moved to STS Subsection 3.1.9; consistent with change to plant-specific TS for VEGP 3&4 by COL Amendment 13
None			3.5.5	Passive Residual Heat Removal Heat Exchanger (PRHR HX) – Shutdown, Reactor Coolant System (RCS) Intact						
None			3.5.6	In-containment Refueling Water Storage Tank (IRWST) – Operating						
None			3.5.7	In-containment Refueling Water Storage Tank (IRWST) – Shutdown, MODE 5						
None			3.5.8	In-containment Refueling Water Storage Tank (IRWST) – Shutdown, MODE 6						
None			3.6.4	Containment Pressure						
None			3.6.6 [GTS 3.6.7]	Passive Containment Cooling System (PCS) [- Operating] [PCS - Shutdown]						
None			3.6.7 [GTS 3.6.8]	Containment Penetrations						
None			3.7.4	Secondary Specific Activity						
None			3.7.5	Spent Fuel Pool Water Level						
None			3.7.7	Startup Feedwater Isolation and Control Valves						
None			3.7.8	Main Steam Line Leakage						
None			3.7.9	Spent Fuel Pool Makeup Water Sources						
None			3.7.11	Spent Fuel Pool Boron Concentration						
None			3.7.12	Spent Fuel Pool Storage						
None			3.9.4	Refueling Cavity Water Level						
None			[GTS 3.9.5]	Containment Penetrations						VEGP 3&4 License Amendment Request (LAR) Discussion of Change (DOC) R1 relocated PTS Subsection 3.9.5 to Technical Requirements Manual (TRM), for VEGP 3&4 by COL Amendment 13. Consistent with VEGP 3&4 PTS Section 3.9, AP1000 STS Section 3.9 omits GTS 3.9.5.
None			3.9.5 [GTS 3.9.7]	Decay Time						VEGP 3&4 LAR DOCs R1 and R2 renumber PTS Subsection 3.9.7 as Subsection 3.9.5; VEGP 3&4 COL Amendment 13. Consistent with VEGP 3&4 PTS Section 3.9, AP1000 STS Section 3.9 renumbers GTS 3.9.7 as STS 3.9.5.
None			4.0	Design Features						
None			5.3	Unit Staff Qualifications						VEGP 3&4 PTS COL Items 5.3 and 5.3.1 made changes to PTS Section 5.3
None			5.4	Procedures						
None			5.5.5	Secondary Water Chemistry Program						

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None			5.5.6	Technical Specifications (TS) Bases Control Program						
None			5.5.9	System Level OPERABILITY Testing Program						
None			5.5.10	Component Cyclic or Transient Limit						
None			5.5.13	Ventilation Filter Testing Program						
None			5.5.14	Setpoint Control Program						
None			5.7	High Radiation Area						
TSTF-006-A	ML040340457	Add Exception for LCO 3.0.7 to LCO 3.0.1	LCO 3.0	Limiting Conditions for Operation (LCO) Applicability		TSTF-006-A				TSTF-006-A, Revision 1, was incorporated into Revision 2 of the STS NUREG series, which is the reported basis for the AP1000 GTS. However, TSTF-006 was not included in the AP1000 GTS and it appears that TSTF-006 should be included because it provides an appropriate exception for LCO 3.0.7. This is also consistent with VEGP LAR DOC A005.
TSTF-051-A	ML040400343	Revise containment requirements during handling irradiated fuel and core alterations	3.3.16	Engineered Safety Feature Actuation System (ESFAS) Actuation Logic – Shutdown					TSTF-051-A	TSTF-51-A eliminates the use of the term CORE ALTERATION as in TSTF-471-A. TSTF-471-A was incorporated in VEGP 3&4 PTS in COL Amendment 13 (DOC L03). The part of this traveler that adds "recently" before "irradiated fuel" in Applicability statements is deferred in case it can be shown that such a change is needed even with Specification 3.9.5 "Decay Time."
			3.7.6	Main Control Room Emergency Habitability System (VES)					TSTF-051-A	
			3.8.2	DC Sources - Shutdown					TSTF-051-A	
			3.8.4	Inverters - Shutdown					TSTF-051-A	
			3.8.6	Distribution Systems - Shutdown					TSTF-051-A	
			3.9.1	Boron Concentration					TSTF-051-A	
3.9.4	Refueling Cavity Water Level					TSTF-051-A				
TSTF-052-A	ML040400371	Implement 10 CFR 50, Appendix J, Option B	3.6.1	Containment		TSTF-52-A				Subsection 3.6.1 of GTS Rev. 19 already includes some of the TSTF-52-A changes. The AP1000 STS 3.6.1 includes the remaining TSTF-52-A changes.
			3.6.2	Containment Air Locks		TSTF-52-A				Subsection 3.6.2 of GTS Rev. 19 already includes some of the TSTF-52-A changes. The AP1000 STS 3.6.2 includes the remaining TSTF-52-A changes.
TSTF-065-A	ML040080572	Use of generic titles for utility positions	5.1	Responsibility		TSTF-65-A				TSTF-65-A was incorporated in VEGP 3&4 PTS in COL Items 5.1.1 and 5.1.2
			5.2	Organization		TSTF-65-A				TSTF-65-A was incorporated in VEGP 3&4 PTS in COL Item 5.2.1
TSTF-071-A	ML040440038	Add Example of SFDP to the 3.0.6 Bases	LCO 3.0	Limiting Conditions for Operation (LCO) Applicability	TSTF-071-A					TSTF-071-A have not been included in the AP1000 GTS, whereas, TSTF-273-A was included. Incorporating these two TSTFs into the AP1000 STS would make the AP1000 STS consistent with all of the current STS (NUREGs 1430 through 1434). The APOG commented that "This Bases-only change is generally not adopted by most plant-specific ISTS conversions (for example, it is currently not in VEGP Units 1 and 2 Bases). The Bases examples are not considered to be helpful, especially given the plant-specific details provided in procedures." Therefore, TSTF-071-A is not included as not being applicable to GTS Rev. 19.
TSTF-122-A	ML040480070	Revise LCO 3.0.2 Bases to Remove Possible Confusion	LCO 3.0	Limiting Conditions for Operation (LCO) Applicability		TSTF-122-A				TSTF-122 was not included in the AP1000GTS and it appears that TSTF-122 should be included because it provides clarification for the LCO 3.0.2 bases
TSTF-153-A	ML040500741	Clarify Exception Notes to be Consistent with the Requirement Being Excepted	3.4.4	RCS Loops		TSTF-153-A				TSTF-153-A, Revision 0, was not applied to the AP1000 GTS. However, TSTF-438-A, Revision 0, supersedes TSTF-153-A and is applied by this GTST. TSTF-153 is included for informational purposes.
			3.4.8	Minimum RCS Flow		TSTF-153-A				
TSTF-165-A	ML040490233	Revise the LCO 3.0.5 Bases to Refer to Testing and Not SRs	LCO 3.0	Limiting Conditions for Operation (LCO) Applicability		TSTF-165-A				
TSTF-166-A	ML040500817	Correct Inconsistency between LCO 3.0.6 and the SFDP Regarding Performance of an Evaluation	LCO 3.0	Limiting Conditions for Operation (LCO) Applicability		TSTF-166-A				TSTF-166-A was not included in the AP1000 GTS, whereas, TSTF-273-A was included. Incorporating these two TSTFs into the AP1000 STS would make the AP1000 STS consistent with all of the current STS (NUREGs 1430 to 1434).
TSTF-205-A	ML040570179	Revision of Channel Calibration, Channel Functional Test, and Related Definitions	3.4.9	RCS Leakage Detection Instrumentation		TSTF-205-A				The bases discussion of SR 3.4.9.2 is revised to add clarity regarding a successful Channel Operational Test.
TSTF-258-A	ML040620102	Changes to Section 5.0, Administrative Controls	5.5.2	Radioactive Effluent Controls Program		TSTF-258-A				TSTF-258-A was incorporated in VEGP 3&4 PTS Subsection 5.5.2 by COL Amendment 13 (DOC L23)
TSTF-273-A	ML040611069	SFDP Clarifications	5.5.7	Safety Function Determination Program (SFDP)				TSTF-273-A		Subsection 5.5.7 of GTS Rev. 19 does not include the text used in TSTF-273-A regarding the use of diesel generators (DGs) because the AP1000 DGs are not safety related and are not included in GTS.
TSTF-273-A	ML040611069	SFDP Clarifications	LCO 3.0	Limiting Conditions for Operation (LCO) Applicability			TSTF-273-A			Note that TSTF-273-A was incorrectly incorporated into the last sentence of the Bases for GTS LCO 3.0.6. AP1000 STS 3.0.6 corrects the error.
TSTF-279-A	ML040611066	Remove "applicable supports" from Inservice Testing Program	5.5.3	Inservice Testing Program		TSTF-279-A				
TSTF-343-A	ML051860291	Containment Structural Integrity	3.6.1	Containment	TSTF-343-A					AP1000 GTS did not include the exceptions made by TSTF-343 for the testing of the containment leakage. The exceptions are for prestressed concrete structure. This does not apply to AP1000 containment design.
			5.5.8	Containment Leakage Rate Testing Program	TSTF-343-A					Subsection 5.5.8 of GTS Rev. 19 does not include the two exceptions made by TSTF-343 for the testing of the containment leakage. The exceptions are for a containment structure using prestressed concrete, which does not apply to the AP1000 containment design.
TSTF-347-A	ML020320408	P-7 Surveillance	3.3.1	Reactor Trip System (RTS) Instrumentation	TSTF-347-A					TSTF-347-A is not applicable to the AP1000 design. AP1000 has no P-7 interlock.

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TSTF-359-A	ML031190607	Increase Flexibility in MODE Restraints	LCO 3.0	Limiting Conditions for Operation (LCO) Applicability					TSTF-359-A	LCO 3.0.4 statement is clarified.	
			SR 3.0	Surveillance Requirement (SR) Applicability					TSTF-359-A	LCO 3.0.4 statement is clarified.	
			3.3.17	Post Accident Monitoring (PAM) Instrumentation						TSTF-359-A	The clarified statement of LCO 3.0.4 eliminates the need for most LCO 3.0.4 exceptions in the Specifications.
			3.3.18	Remote Shutdown Workstation (RSW)						TSTF-359-A	The clarified statement of LCO 3.0.4 eliminates the need for most LCO 3.0.4 exceptions in the Specifications.
			3.4.9	RCS Leakage Detection Instrumentation						TSTF-359-A	The clarified statement of LCO 3.0.4 eliminates the need for most LCO 3.0.4 exceptions in the Specifications.
			3.4.10	RCS Specific Activity						TSTF-359-A	The clarified statement of LCO 3.0.4 eliminates the need for most LCO 3.0.4 exceptions in the Specifications.
			3.4.14	Low Temperature Overpressure Protection (LTOP) System						TSTF-359-A	The clarified statement of LCO 3.0.4 eliminates the need for most LCO 3.0.4 exceptions in the Specifications.
			3.5.3	Core Makeup Tanks (CMTs) - Shutdown, Reactor Coolant System (RCS) Intact						TSTF-359-A	The AP1000 design does not utilize pumps in the passive core cooling system (PXS).
			3.5.4	Passive Residual Heat Removal Heat Exchanger (PRHR HX) - Operating						TSTF-359-A	The AP1000 PRHR HX differs in design compared to the conventional Westinghouse AFW system design.
			3.7.10	Steam Generator (SG) Isolation Valves				TSTF-359-A	The clarified statement of LCO 3.0.4 eliminates the need for most LCO 3.0.4 exceptions in the Specifications. However, there is no such Note in TS 3.7.10.		
TSTF-369-A	ML040050211	Removal of Monthly Operating Report and Occupational Radiation Exposure Report	1.1	Definitions		TSTF-369-A					
			3.3.17	Post Accident Monitoring (PAM) Instrumentation		TSTF-369-A				Reporting Requirements have been changed prompting a renumbering within STS Section 5.6.	
			5.5.1.	Offsite Dose Calculation Manual (ODCM)		TSTF-369-A				TSTF-369-A was incorporated in VEGP 3&4 PTS Subsection 5.5.1 by COL Amendment 13 (DOC L02)	
			5.6	Reporting Requirements		TSTF-369-A				TSTF-369-A was incorporated in VEGP 3&4 PTS Subsection 5.6.1 by COL Amendment 13 (DOC L02)	
TSTF-370-A	ML003771348	Increase accumulator Completion Time from 1 hour to 24 hours (WCAP-15049)	3.5.1	Accumulators	TSTF-370-A				The AP1000 accumulator design and associated required action completion times in Subsection 3.5.1 of GTS Rev. 19 differ from the accumulator design of the conventional Westinghouse plant and the associated required action completion times in WOG STS Subsection 3.5.1.		
TSTF-371-A	ML020670135	NIS Power Range Channel Daily SR TS Change to Address Low Power Decalibration	3.3.1	Reactor Trip System (RTS) Instrumentation	TSTF-371-A				TSTF-371-A is not applicable to the AP1000 design. The prescribed absolute differences in NIS channels that require a channel adjustment are different for AP1000. Also, the reactor thermal power thresholds for starting the time clocks on SRs are different for the AP1000.		
TSTF-372-A	ML041200567	Addition of LCO 3.0.9, Inoperability of Snubbers	LCO 3.0	Limiting Conditions for Operation (LCO) Applicability				TSTF-372-A	Adds LCO for inoperability of snubbers.		
TSTF-401-A	ML011620490	Revise Incorrect Bases for Containment Air Temperature	3.6.5	Containment Air Temperature		TSTF-401-A				Discussion of peak accident temperature maintained below the containment design temperature is revised. The AP1000 original wording differs from the original wording of the WOG STS, but the change is still applicable.	
TSTF-411-A	ML022470164	Surveillance Test Interval Extensions for Components of the Reactor Protection System (WCAP-15376-P)	3.3.7	Reactor Trip System (RTS) Trip Actuation Devices	TSTF-411-A					TSTF-411 is based on WCAP-15376-P, which did not consider the AP1000 design in the analysis.	
			3.3.8	Engineered Safety Feature Actuation System (ESFAS) Instrumentation	TSTF-411-A						
			3.3.10	Engineered Safety Feature Actuation System (ESFAS) Reactor Coolant System (RCS) Hot Leg Level Instrumentation	TSTF-411-A						
			3.3.11	QUADRANT POWER TILT RATIO (QPTR)	TSTF-411-A						
			3.3.13	Engineered Safety Feature Actuation System (ESFAS) Control Room Air Supply Radiation Instrumentation	TSTF-411-A						
			3.3.14	Engineered Safety Feature Actuation System (ESFAS) Spent Fuel Pool Level Instrumentation	TSTF-411-A						
			3.3.15	Engineered Safety Feature Actuation System (ESFAS) Actuation Logic - Operating	TSTF-411-A						
3.3.16	Engineered Safety Feature Actuation System (ESFAS) Actuation Logic - Shutdown	TSTF-411-A									
TSTF-412-A	ML070100363	Provide Actions for One Steam Supply to Turbine Driven AFW/EFW Pump Inoperable	3.5.4	Passive Residual Heat Removal Heat Exchanger (PRHR HX) - Operating	TSTF-412-A					The AP1000 PXS design does not utilize auxiliary feedwater (AFW) pumps for safety related decay heat removal.	
			3.7	Plant Systems	TSTF-412-A					The AP1000 design does not utilize AFW pumps.	
TSTF-418-A	ML030650848	RPS and ESFAS Test Times and Completion Times (WCAP-14333)	3.3.1	Reactor Trip System (RTS) Instrumentation	TSTF-418-A					TSTF-418 is based on WCAP-14333-P, which did not consider the AP1000 design in the analysis.	
			3.3.4	Reactor Trip System (RTS) Engineered Safety Feature Actuation System (ESFAS) Instrumentation	TSTF-418-A						
			3.3.6	Reactor Trip System (RTS) Automatic Trip Logic	TSTF-418-A						
			3.3.7	Reactor Trip System (RTS) Trip Actuation Devices	TSTF-418-A						
			3.3.8	Engineered Safety Feature Actuation System (ESFAS) Instrumentation	TSTF-418-A						
3.3.9	Engineered Safety Feature Actuation System (ESFAS) Manual Initiation	TSTF-418-A									

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TSTF-418-A continued	ML030650848	RPS and ESFAS Test Times and Completion Times (WCAP-14333)	3.3.10	Engineered Safety Feature Actuation System (ESFAS) Reactor Coolant System (RCS) Hot Leg Level Instrumentation	TSTF-418-A					TSTF-418 is based on WCAP-14333-P, which did not consider the AP1000 design in the analysis.
			3.3.11	QUADRANT POWER TILT RATIO (QPTR)	TSTF-418-A					
			3.3.12	Engineered Safety Feature Actuation System (ESFAS) Reactor Trip Initiation	TSTF-418-A					
			3.3.13	Engineered Safety Feature Actuation System (ESFAS) Control Room Air Supply Radiation Instrumentation	TSTF-418-A					
			3.3.14	Engineered Safety Feature Actuation System (ESFAS) Spent Fuel Pool Level Instrumentation	TSTF-418-A					
			3.3.15	Engineered Safety Feature Actuation System (ESFAS) Actuation Logic - Operating	TSTF-418-A					
			3.3.16	Engineered Safety Feature Actuation System (ESFAS) Actuation Logic - Shutdown	TSTF-418-A					
TSTF-419-A	ML012690234	Revise PTLR Definition and References in ISTS 5.6.6, RCS PTLR	1.1	Definitions		TSTF-419-A			TSTF-419-A was incorporated in VEGP 3&4 plant-specific TS (PTS) in COL Amendment 13 (DOC L04)	
TSTF-419-A	ML012690234	Revise PTLR Definition and References in ISTS 5.6.6, RCS PTLR	5.6	Reporting Requirements				TSTF-419-A	TSTF-419-A revised the bracketed text of WOG STS Subsection 5.6.6 to require including the date for approved documents. GTS Subsection 5.6.6 included documents specific to its design, with no brackets.	
TSTF-425-A	ML090850627	Relocate Surveillance Frequencies to Licensee Control - RITSTF Initiative 5b	3.1	Reactivity Control Systems					TSTF-425-A	Risk-informed TS changes will be considered at a later time for application to the AP1000 STS.
			3.2	Core Operating Limits					TSTF-425-A	
			3.3	Instrumentation					TSTF-425-A	
			3.4	Reactor Coolant System (RCS)					TSTF-425-A	
			3.5	Passive Core Cooling System (PXS)					TSTF-425-A	
			3.6	Containment Systems					TSTF-425-A	
			3.7	Plant Systems					TSTF-425-A	
			3.8	Electrical Power Systems					TSTF-425-A	
TSTF-427-A	ML061240055	Allowance for Non-Technical Specification Barrier Degradation on Supported System OPERABILITY	LCO 3.0	Limiting Conditions for Operation (LCO) Applicability					TSTF-427-A	Adds LCO for barrier degradation.
TSTF-432-A	ML103360003	Change in Technical Specification End States (WCAP-16294)	3.3	Instrumentation					TSTF-432-A	Risk-informed TS changes will be considered at a later time for application to the AP1000 STS.
			3.4	Reactor Coolant System (RCS)					TSTF-432-A	
			3.5	Passive Core Cooling System (PXS)					TSTF-432-A	
			3.6	Containment Systems					TSTF-432-A	
			3.7	Plant Systems					TSTF-432-A	
TSTF-432-A	ML103360003	Change in Technical Specification End States (WCAP-16294)	3.8.1	DC Sources – Operating	TSTF-432					TSTF-432 is a topical report that is not applicable to AP1000.
			3.8.3	Inverters – Operating	TSTF-432					
			3.8.5	Distribution Systems – Operating	TSTF-432					
TSTF-434-A	ML021580320	Clarifying SR 3.0.1 Bases to state that Surveillance can be performed in steps	SR 3.0	Surveillance Requirement (SR) Applicability		TSTF-434-A				
TSTF-437-T	(b)	Correction of Rod Position Indication Condition	3.1.7	Rod Position Indication					TSTF-437-T	This traveler was not included in NUREG-1431 Rev 3 or 4; Appears to be supeceded by pending TSTF-547, Rev. 0 (ML14065A582)
TSTF-438-A	ML021580334	Clarify Exception Notes to be Consistent with the Requirement Being Excepted	3.4.4	RCS Loops		TSTF-438-A				TSTF-438-A clarifies when all RCPs may be removed from operation.
			3.4.8	Minimum RCS Flow		TSTF-438-A				
TSTF-439-A	ML051860296	Eliminate Second Completion Times Limiting Time From Discovery of Failure To Meet an LCO	1.3	Completion Times		TSTF-439-A				TSTF-439-A was incorporated in VEGP 3&4 PTS in COL Amendment 13 (DOC L04)
TSTF-439-A	ML051860296	Eliminate Second Completion Times Limiting Time From Discovery of Failure To Meet an LCO	3.5.4	Passive Residual Heat Removal Heat Exchanger (PRHR HX) - Operating	TSTF-439-A					GTS Rev. 19, Subsection 3.5.4 does not include equivalent Required Actions, due to design differences.
			3.6.6	Passive Containment Cooling System (PCS)	TSTF-439-A					The AP1000 LCO does not include equivalent Required Actions, due to the design differences between the PCS and the containment cooling systems provided by the conventional Westinghouse plant's pre-stressed concrete large dry containment.
TSTF-439-A	ML051860296	Eliminate Second Completion Times Limiting Time From Discovery of Failure To Meet an LCO	3.8.5	Distribution Systems – Operating		TSTF-439-A				VEGP LAR DOC L04 is consistent with TSTF-439-A.
TSTF-440-A	ML021580348	Eliminate Bases Requirement for Performing a System Walkdown	3.6.3;	Containment Isolation Valves; Unborated Water Source Flow Paths		TSTF-440-A				TSTF-440-A removes specific requirements to perform a system walkdown when verifying that a flow path is isolated or that valves are in the correct position.
			3.9.2			TSTF-440-A				
TSTF-440-A	ML021580348	Eliminate Bases Requirement for Performing a System Walkdown	3.6.6	Passive Containment Cooling System (PCS)		TSTF-440-A				
TSTF-440-A	ML021580348	Eliminate Bases Requirement for Performing a System Walkdown	3.6.8 [3.6.9]	pH Adjustment	TSTF-440-A					GTS Rev. 19 Subsection 3.6.9 does not include a similar Surveillance Requirement.

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TSTF-444-T	ML022470169	ESFAS Interlocks P-4, P-11 & P-12 LCO Actions and Surveillance Requirements Revisions	3.3.12	Engineered Safety Feature Actuation System (ESFAS) Reactor Trip Initiation	TSTF-444-T					TSTF-444-T is not applicable to the AP1000 GTS. The AP1000 design for the P-4, P-11, and P-12 interlocks is different than the NUREG-1431 design regarding the number of required channels and the implementation hardware.
			3.3.8	Engineered Safety Feature Actuation System (ESFAS) Instrumentation	TSTF-444-T					
TSTF-446-A	ML080510164	Risk Informed Evaluation of Extensions to Containment Isolation Valve Completion Times (WCAP-15791)	3.6	Containment Systems					TSTF-446-A	Risk-informed TS changes will be considered at a later time for application to the AP1000 STS.
TSTF-447-A	ML032020007	Elimination of Hydrogen Recombiners and Change to Hydrogen and Oxygen Monitors	5.6	Reporting Requirements	TSTF-447-A					Along with deleting Condition D ("Two hydrogen monitor channels inoperable") of Subsection 3.3.3 from WOG STS Rev. 2, in Subsection 5.6.7, TSTF-447 changed the reference to the actions table of Subsection 3.3.3 from "Condition G of LCO 3.3.[3]" to "Condition F of LCO 3.3.[3]"; this change is irrelevant to GTS Rev. 19 because GTS Subsection 3.3.3 includes neither Condition D nor Condition G ("As required by Required Action E.1 and referenced in Table 3.3.3-1") of WOG STS Rev. 2. That is, GTS Subsection 5.6.7 does not reference a Condition G; GTS 5.6.7 only references "Condition B of LCO 3.3.3." GTS 3.3.3 Action B which states: "Required Action and associated Completion Time of Condition A not met. B.1 Initiate action in accordance with Specification 5.6.7. Immediately"
TSTF-447-A	ML032020007	Elimination of Hydrogen Recombiners and Change to Hydrogen and Oxygen Monitors	3.3.17	Post Accident Monitoring (PAM) Instrumentation					TSTF-447-A	Subsection 3.3.3 of GTS Rev. 19 is consistent with TSTF-447-A.
TSTF-448-A	ML062210095 ML063630467	Control Room Habitability	3.7.6	Main Control Room Emergency Habitability System (VES)			TSTF-448-A			TSTF-448-A is included in Subsection 3.7.6 of GTS Rev. 19.
TSTF-448-A	ML062210095 ML063630467	Control Room Habitability	5.5.12	Main Control Room Envelope Habitability Program					TSTF-448-A	Subsection 5.5.12 was included in GTS Rev. 19 to incorporate TSTF-448, with minor changes to the text as appropriate to its design.
TSTF-449-A	ML051090200	Steam Generator Tube Integrity	1.1	Definitions			TSTF-449-A			
TSTF-449-A	ML051090200	Steam Generator Tube Integrity	5.6	Reporting Requirements		TSTF-449-A				TSTF-449-A was incorporated in VEGP 3&4 PTS Subsection 5.6.6 [GTS 5.6.8] by COL Amendment 13 (DOC L03)
TSTF-449-A	ML051090200	Steam Generator Tube Integrity	3.4.18	Steam Generator (SG) Tube Integrity			TSTF-449-A			TSTF-449-A is included in Subsection 3.4.18 of GTS Rev 19.
			3.4.4	RCS Loops			TSTF-449-A			
			3.4.7	RCS Operational Leakage			TSTF-449-A			
TSTF-449-A	ML051090200	Steam Generator Tube Integrity	5.5.4	Steam Generator (SG) Program					TSTF-449-A	TSTF-449-A was incorporated in VEGP 3&4 PTS Subsection 5.5.4 by COL Amendment 13 (DOC L04)
TSTF-451-T	(b)	Correct the Battery Monitoring and Maintenance Program and the Bases of SR 3.8.4.2	3.8.1	DC Sources – Operating		TSTF-451-T				TSTF-451-T was incorporated in VEGP 3&4 PTS in COL Amendment 13
			5.5.11	Battery Monitoring and Maintenance Program		TSTF-451-T				
TSTF-453-T	(b)	Addition of New Tech Spec on RCS Boron Limits and Revisions to Tech Spec 3.3.1 to address RWFS	3.3.1	Reactor Trip System (RTS) Instrumentation	TSTF-453-T					TSTF-453-T is not applicable to the AP1000 design because it is based on Westinghouse NSAL-00-016 the proposed changes, which did not consider the AP1000 design.
TSTF-469-T	(b)	Correct Action to Suspend Positive Reactivity Additions	3.3.2	Reactor Trip System (RTS) Source Range Instrumentation		TSTF-469-T				Required Actions which prohibit positive reactivity additions are corrected to prohibit positive reactivity additions that could result in a loss of required SDM.
			3.3.3	Reactor Trip System (RTS) Intermediate Range Instrumentation		TSTF-469-T				
TSTF-470-T	(b)	Correct Titles and References in PAM Instrumentation Bases	3.3.17	Post Accident Monitoring (PAM) Instrumentation					TSTF-470-T	Subsection 3.3.3 of GTS Rev. 19 is consistent with TSTF-470-T.
TSTF-471-A	ML062860320	Eliminate use of term CORE ALTERATIONS in ACTIONS and Notes	1.1	Definitions		TSTF-471-A				TSTF-471-A incorporated in VEGP 3&4 PTS in COL Amendment 13 (DOC L03)
			3.8.2	DC Sources – Shutdown		TSTF-471-A				VEGP LAR DOC L03 is consistent with TSTF-471-A.
			3.8.4	Inverters – Shutdown		TSTF-471-A				VEGP LAR DOC L03 is consistent with TSTF-471-A.
			3.8.6	Distribution Systems – Shutdown		TSTF-471-A				VEGP LAR DOC L03 is consistent with TSTF-471-A.
			3.9.1	Boron Concentration		TSTF-471-A				TSTF-471-A incorporated in VEGP 3&4 PTS in COL Amendment 13 (DOC L03)
			3.9.2	Unborated Water Source Flow Paths		TSTF-471-A				TSTF-471-A incorporated in VEGP 3&4 PTS in COL Amendment 13 (DOC L03)
TSTF-475-A	ML071420428	Control Rod Notch Testing Frequency and SRM Insert Control Rod Action	3.9.3	Nuclear Instrumentation		TSTF-471-A				TSTF-471-A incorporated in VEGP 3&4 PTS in COL Amendment 13 (DOC L03)
TSTF-479-A	ML052990317	Changes to Reflect Revision of 10 CFR 50.55a	1.4	Frequency		TSTF-475-A				
			3.4.14	Low Temperature Overpressure Protection (LTOP)			TSTF-479-A			TSTF-479-A is included in Subsection 3.4.14 of GTS Rev. 19.
			3.4.15	RCS Pressure Isolation Valve Leakage			TSTF-479-A			TSTF-479-A is included in Subsection 3.4.15 of GTS Rev. 19.
TSTF-479-A	ML052990317	Changes to Reflect Revision of 10 CFR 50.55a	3.4.6	Pressurizer Safety Valves			TSTF-479-A			TSTF-479-A is included in Subsection 3.4.6 of GTS Rev. 19.
			3.5.2	Core Makeup Tanks (CMTs) - Operating	TSTF-479-A				The AP1000 pasive core cooling system (PXS).does not utilize pumps.	
			3.5.4	Passive Residual Heat Removal Heat Exchanger (PRHR HX) - Operating	TSTF-479-A				The AP1000 PRHR HX differs in design compared to the conventional Westinghouse AFW system design.	
TSTF-479-A	ML052990317	Changes to Reflect Revision of 10 CFR 50.55a	3.6.6	Passive Containment Cooling System (PCS)	TSTF-479-A					The AP1000 PCS design does not utilize containment spray pumps.
			3.6.9 [GTS 3.6.10]	Vacuum Relief Valves				TSTF-479-A		The AP1000 already includes the use of "ASME OM Code" in the Bases for verifying operability of vacuum relief flow path.

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TSTF considered for inclusion in AP1000 STS	ADAMS Accession No.	TSTF Title	GTST for AP1000 STS Section or Subsection	AP1000 STS Section or Subsection Title	TSTF not applicable to AP1000 design or GTS Rev. 19	TSTF included in AP1000 STS	TSTF already included in GTS Rev. 19 with no variation	TSTF already included in GTS Rev. 19 with variation	TSTF deferred for future consideration	Comments (a)	
TSTF-479-A	ML052990317	Changes to Reflect Revision of 10 CFR 50.55a	3.7.1	Main Steam Safety Valves (MSSVs)			TSTF-479-A			TSTF-479-A is included in Subsection 3.7.1 of GTS Rev. 19.	
			3.7.2	Main Steam Isolation Valves (MSIVs)			TSTF-479-A			TSTF-479-A is included in Subsection 3.7.2 of GTS Rev. 19.	
			3.7.3	Main Feedwater Isolation and Control Valves (MFIVs and MFCVs)			TSTF-479-A			TSTF-479-A is included in Subsection 3.7.3 of GTS Rev. 19.	
TSTF-479-A	ML052990317	Changes to Reflect Revision of 10 CFR 50.55a	5.5.3	Inservice Testing Program		TSTF-479-A				TSTF-479-A was incorporated in VEGP 3&4 PTS Subsection 5.5.3 by COL Amendment 13 (DOCs A119 and L24)	
TSTF-481-T	(b)	Correct Bases for LTOP COT	3.4.14	Low Temperature Overpressure Protection (LTOP) System	TSTF-481-T					TSTF-481-T clarifies WOG STS SR 3.4.12.8 regarding a COT on the PORVs to verify that the PORV is capable of performing its LTOP function. The AP1000 design does not utilize pressurizer PORVs to provide LTOP protection and a similar SR for the AP1000 does not exist.	
TSTF-482-A	ML050530165	Correct LCO 3.0.6 Bases	LCO 3.0	Limiting Conditions for Operation (LCO) Applicability		TSTF-482-A					
TSTF-483-T	(b)	Delete TS 3.3.1, Condition D, Power Range Neutron Flux - High Channel Inoperable	3.2.4	QUADRANT POWER TILT RATIO (QPTR)	TSTF-483-T						TSTF-483-T is based on Westinghouse Topical report for operating reactors. No analysis is available for AP1000.
			3.3.1	Reactor Trip System (RTS) Instrumentation	TSTF-483-T						TSTF-483-T is not applicable to the AP1000 GTS. TSTF-483-T is follow-on to TSTF-418-A, which relaxed TS completion times based on WCAP-14333-P. WCAP-14333-P did not consider the AP1000 design in the analysis.
			3.3.8	Engineered Safety Feature Actuation System (ESFAS) Instrumentation	TSTF-483-T						TSTF-483-T is not applicable to the AP1000 GTS. TSTF-483-T is follow-on to TSTF-418-A, which relaxed TS completion times based on WCAP-14333-P. WCAP-14333-P did not consider the AP1000 design in the analysis.
TSTF-485-A	ML051570066	Correct Example 1.4-1	1.4	Frequency			TSTF-485-A				
TSTF-490-A	ML052630462	Deletion of E Bar definition and revision to RCS specific activity	1.1	Definitions				TSTF-490-A			GTS 1.1 deleted the definition of E Bar (similar to TSTF-490-A) but kept its definition of Dose Equivalent I-131
			3.4.10	RCS Specific Activity				TSTF-490-A			
TSTF-491-A	ML061500078	Removal of Main Steam and Main Feedwater Valve Isolation Times From Technical Specifications	3.7.2	Main Steam Isolation Valves (MSIVs)		TSTF-491-A					Generic Letter 93-08 indicates that equipment actuation times do not need to be in the technical specifications.
			3.7.3	Main Feedwater Isolation and Control Valves (MFIVs and MFCVs)		TSTF-491-A					
TSTF-493-A	ML101160026	Clarify Application of Setpoint Methodology for LSSS Functions	3.3	Instrumentation	TSTF-493-A					Setpoint program of GTS 5.5.14 was added to support combined license requirements of 10 CFR 52.9(c) and predates the setpoint program proposed by TSTF-493 that is oriented towards currently operating plants licensed under 10 CFR Part 50.	
TSTF-494-T	ML093350037	Correct Bases Discussion of Figure B3.0-1	LCO 3.0	Limiting Conditions for Operation (LCO) Applicability	TSTF-494-T						
TSTF-497-A	ML061930221	Limit Inservice Testing Program SR 3.0.2 Application to Frequencies of 2 Years or Less	5.5.3	Inservice Testing Program		TSTF-497-A				TSTF-479-A was incorporated in VEGP 3&4 PTS Subsection 5.5.3 by COL Amendment 13 (DOC L24)	
TSTF-499-T	(b)	Revise TS 3.4.3 Bases to Exclude the Pressurizer Surge Line from the P/T Limits	3.4.3	RCS Pressure and Temperature (P/T) Limits		TSTF-499-T				This correction clears up any possible ambiguity related to the pressurizer surge line.	
TSTF-500-A	ML092670242	DC Electrical Rewrite - Update to TSTF-360	3.8.1	DC Sources – Operating		TSTF-500-A					Some of the changes in TSTF-500 were already included in GTS Rev. 19; VEGP 3&4 LAR DOC L22 addresses changes similar to TSTF-500 that were incorporated by Amendment 13 in the VEGP 3&4 plant-specific TS. VEGP LAR DOC L21 is consistent with TSTF-500.
			3.8.2	DC Sources – Shutdown		TSTF-500-A					
			3.8.7	Battery Parameters		TSTF-500-A					
			5.5.11	Battery Monitoring and Maintenance Program		TSTF-500-A					
TSTF-504-T	(b)	Revised the MSIV and MFIV Specifications to Provide Actions for Actuator Trains	3.7.2	Main Steam Isolation Valves (MSIVs)	TSTF-504-T					TSTF-504-T, Rev. 0 revises WOG Specification 3.7.2 based on license amendments granted for Wolf Creek, Callaway, and Palo Verde regarding dual actuator trains for isolation valves. The Westinghouse plant design feature addressed by this TSTF is not applicable to AP1000 MSIV and MFIV actuator	
			3.7.3	Main Feedwater Isolation and Control Valves (MFIVs and MFCVs)	TSTF-504-T						
TSTF-505-A	ML111650552	Provide Risk-Informed Extended Completion Times - RITSTF Initiative 4b	3.3	Instrumentation					TSTF-505-A	Risk-informed TS changes will be considered at a later time for application to the AP1000 STS.	
			3.4	Reactor Coolant System (RCS)					TSTF-505-A		
			3.5	Passive Core Cooling System (PXS)					TSTF-505-A		
			3.6	Containment Systems					TSTF-505-A		
			3.7	Plant Systems					TSTF-505-A		
			3.8	Electrical Power Systems					TSTF-505-A		

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TSTF-510-A	ML110610350	Revision to Steam Generator Program Inspection Frequencies and Tube Sample Selection	5.6	Reporting Requirements		TSTF-510-A				TSTF-510-A includes changes to NUREG-1431 that add optional SG repair criteria denoted by square brackets. Such SG repair criteria do not currently exist for AP1000 plants. Therefore, this GTST does not replace the phrase "tube repair criteria" with "plugging [or repair] criteria"; neither does it replace "plugged" with "plugged [or repaired]" where these terms occur in the LCO statement, Condition and Required Action statements, and Surveillance statements of GTS Subsection 3.4.18, nor in the 'LCO,' 'Actions,' and 'SRs' sections of the Bases. Omitted bracketed material from paragraph 5.6.6.f and bracketed paragraph 5.6.6.h from STS Subsection 5.6.6.		
			5.5.4	Steam Generator (SG) Program		TSTF-510-A				TSTF-471-A was incorporated in VEGP 3&4 PTS Subsection 5.5.4 by COL Amendment 13 (DOC L03) TSTF-510-A includes changes to NUREG-1431 that add optional SG repair criteria denoted by square brackets. Such SG repair criteria do not currently exist for AP1000 plants. Therefore, this GTST does not replace the phrase "tube repair criteria" with "plugging [or repair] criteria"; neither does it replace "plugged" with "plugged [or repaired]" where these terms occur in the LCO statement, Condition and Required Action statements, and Surveillance statements of GTS Subsection 3.4.18, nor in the 'LCO,' 'Actions,' and 'SRs' sections of the Bases. Omitted bracketed material from AP1000 STS Subsection 5.5.4, and also omitted the TSTF-510 Reviewer's Note from Specification 5.5.4.d.2, since it addresses optional content not being adopted in AP1000 STS 5.5.4.		
			3.4.17 [GTS 3.4.18]	Steam Generator (SG) Tube Integrity		TSTF-510-A				TSTF-510-A includes changes to NUREG-1431 that add optional SG repair criteria denoted by square brackets. Such SG repair criteria do not currently exist for AP1000 plants. Therefore, this GTST does not replace the phrase "tube repair criteria" with "plugging [or repair] criteria"; neither does it replace "plugged" with "plugged [or repaired]" where these terms occur in the LCO statement, Condition and Required Action statements, and Surveillance statements of GTS Subsection 3.4.18, nor in the 'LCO,' 'Actions,' and 'SRs' sections of the Bases.		
TSTF-511-A	ML082610292	Eliminate Working Hour Restrictions from TS 5.2.2 to Support Compliance with 10 CFR Part 26	5.2	Organization		TSTF-511-A				TSTF-511-A was incorporated in VEGP 3&4 PTS in COL Item 5.2.2		
TSTF-513-A	ML102360355	Revise PWR Operability Requirements and Actions for RCS Leakage Instrumentation	3.4.9	RCS Leakage Detection Instrumentation		TSTF-513-A				TSTF-513-A, Rev 3 revises the Bases to clearly define the RCS leakage detection instrumentation Operability requirements		
TSTF-519-T	ML093350037	Increase Standardization in Condition and Required Action Notes	3.2.1	Heat Flux Hot Channel Factor ($F_Q(Z)$) (F_Q Methodology)				TSTF-519-T				
			3.3.1	Reactor Trip System (RTS) Instrumentation				TSTF-519-T				
			3.3.10	Engineered Safety Feature Actuation System (ESFAS) Reactor Coolant System (RCS) Hot Leg Level Instrumentation					TSTF-519-T			
			3.3.11	QUADRANT POWER TILT RATIO (QPTR)					TSTF-519-T			
			3.3.12	Engineered Safety Feature Actuation System (ESFAS) Reactor Trip Initiation					TSTF-519-T			
			3.3.13	Engineered Safety Feature Actuation System (ESFAS) Control Room Air Supply Radiation Instrumentation					TSTF-519-T			
			3.3.14	Engineered Safety Feature Actuation System (ESFAS) Spent Fuel Pool Level Instrumentation					TSTF-519-T			
			3.3.15	Engineered Safety Feature Actuation System (ESFAS) Actuation Logic - Operating					TSTF-519-T			
			3.3.16	Engineered Safety Feature Actuation System (ESFAS) Actuation Logic - Shutdown					TSTF-519-T			
			3.3.2	Reactor Trip System (RTS) Source Range Instrumentation					TSTF-519-T			
			3.3.3	Reactor Trip System (RTS) Intermediate Range Instrumentation					TSTF-519-T			
			3.3.4	Reactor Trip System (RTS) Engineered Safety Feature Actuation System (ESFAS) Instrumentation					TSTF-519-T			
			3.3.5	Reactor Trip System (RTS) Manual Actuation					TSTF-519-T			
			3.3.6	Reactor Trip System (RTS) Automatic Trip Logic					TSTF-519-T			
3.3.7	Reactor Trip System (RTS) Trip Actuation Devices					TSTF-519-T						
3.3.8	Engineered Safety Feature Actuation System (ESFAS) Instrumentation					TSTF-519-T						
3.3.9	Engineered Safety Feature Actuation System (ESFAS) Manual Initiation					TSTF-519-T						

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TSTF-522-A	ML100890316	Revise Ventilation System Surveillance Requirements to Operate for 10 hours per Month	3.7.6	Main Control Room Emergency Habitability System (VES)				TSTF-522-A		GTS SR 3.7.6.4, to operate VES for ≥ 15 minutes with a 31 day Frequency, matches the change approved in this traveler for Westinghouse STS SR 3.7.10, except that SR 3.7.6.4 does not include the word "continuous" before "minutes."
TSTF-522-A	ML100890316	Revise Ventilation System Surveillance Requirements to Operate for 10 hours per Month	[GTS 3.9.6]	[Containment Air Filtration System (VFS)]	TSTF-522-A					GTS 3.9.6 / PTS 3.9.6 was relocated from VEGP Units 3 and 4 PTS by Amendment 13; therefore TSTF-522-A does not apply, since the VFS has no heater surveillance requirements in the AP1000 STS.
TSTF-523-A	ML13053A075	Generic Letter 2008-01, Managing Gas Accumulation	3.5.2	Core Makeup Tanks (CMTs) - Operating	TSTF-523-A					Concerns of traveler already addressed by GTS Rev 19.
			3.5.3	CMTs - Shutdown, RCS Intact	TSTF-523-A					
			3.5.4	Passive Residual Heat Removal Heat Exchanger (PRHR HX) - Operating	TSTF-523-A					
			3.5.5	PRHR HX - Shutdown, RCS Intact	TSTF-523-A					
			3.5.6	In Containment Refueling Water Storage Tank (IRWST) - Operating	TSTF-523-A					
			3.5.7	IRWST - Shutdown, MODE 5	TSTF-523-A					
			3.5.8	IRWST - Shutdown, MODE 6	TSTF-523-A					
TSTF-524-T	(b)	Clarify the Application of SR 3.0.2 to SR 3.1.3.2, MTC	3.1.3	Moderator Temperature Coefficient (MTC)				TSTF-524-T		Superseded by VEGP LAR DOC A009, which replaces a surveillance column note with a surveillance frequency. TSTF-524-T modified the surveillance column note to clarify the application of SR 3.0.2.

Table End Notes

(a) "VEGP LAR DOC" stands for "Vogtle Electric Generating Plant, Units 3 and 4 plant-specific technical specifications upgrade license amendment request 12 -002, discussion of change number."

(b) This Technical Specifications Task Force (TSTF) traveler has no ADAMS Accession Number; a copy of this traveler may be requested from the NRC staff contact stated in the Generic Technical Specifications Traveler (GTST) associated with the affected AP1000 STS Section or Subsection.