

**ATTACHMENT 5**

**License Amendment Request**

**Callaway Unit No. 1  
Renewed Facility Operating License NPF-30  
NRC Docket No. 50-483**

**Revise Technical Specifications to Adopt Risk-Informed  
Completion Times TSTF-505, Revision 2, "Provide Risk-Informed  
Extended Completion Times – RITSTF Initiative 4b"**

**Cross-Reference of TSTF-505 and Callaway Technical Specifications**

## ATTACHMENT 5

### Cross-Reference of TSTF-505 and Callaway Technical Specifications

<b>TSTF-505 Tech Spec Section Title/ Condition Description</b>	<b>TSTF-505 TS</b>	<b>Current Callaway TS</b>	<b>Future Callaway TS</b>	<b>Apply RICT?</b>	<b>Comments</b>
<b>Completion Times</b>	<b>1.3</b>	<b>1.3</b>	<b>1.3</b>		
Discussion and Example 1.3-3		Discussion and Example 1.3-3	Discussion and Example 1.3-3	No	TSTF-439 changes are incorporated.
Example 1.3-8	Example 1.3-8	-	Example 1.3-8	No	The Callaway TS do not currently contain this example. Example to be added to the TS to be consistent with TSTF-505. This is a new Example only (i.e., there is no RICT directly applicable to the TS).
<b>Reactor Trip System (RTS) Instrumentation</b>	<b>3.3.1</b>	<b>3.3.1</b>	<b>3.3.1</b>		
One Manual Reactor Trip channel inoperable.	3.3.1.B.1	3.3.1.B.1	3.3.1.B.1	<b>Yes</b>	TSTF-505 changes are incorporated.
One channel or train inoperable.	3.3.1.C.1	3.3.1.C.1	3.3.1.C.1	No	The proposed Callaway RICT Program is applicable in Modes 1 and 2. This Condition is applicable in Modes 3, 4, and 5. Therefore, TSTF-505 changes are not incorporated.
One Power Range Neutron Flux - High channel inoperable.	3.3.1.D.1.1 3.3.1.D.2.1	- 3.3.1.D.1.2	- 3.3.1.D.1.2	<b>Yes</b>	TSTF-505 changes are incorporated for the Required Actions applicable to the Callaway TS.
One channel inoperable.	3.3.1.E.1	3.3.1.E.1	3.3.1.E.1	<b>Yes</b>	TSTF-505 changes are incorporated.

## ATTACHMENT 5

### Cross-Reference of TSTF-505 and Callaway Technical Specifications

TSTF-505 Tech Spec Section Title/ Condition Description	TSTF-505 TS	Current Callaway TS	Future Callaway TS	Apply RICT?	Comments
One Source Range Neutron Flux channel inoperable.	3.3.1.H.1	3.3.1.I.1	3.3.1.H.1	No	Conditions H, L, N and W are not used at Callaway. Will use LAR process to use all previously unused conditions to reduce total amount of conditions for ease of use. This is an editorial renumbering of Conditions.
Two Source Range Neutron Flux channels inoperable.	3.3.1.I.1	3.3.1.J.1	3.3.1.I.1	No	Condition letter changed per note on 3.3.1.H.1
One Source Range Neutron Flux channel inoperable.	3.3.1.J.1	3.3.1.K.1	3.3.1.J.1	No	The proposed Callaway RICT Program is applicable in Modes 1 and 2. This Condition is applicable in Modes 3, 4, and 5. Therefore, TSTF-505 changes are not incorporated. Condition letter changed per note on 3.3.1.H.1
Required Action and associated Completion Time of Condition C or J not met.	[NEW TS] 3.3.1.K	-	-	No	The Callaway TS do not currently contain this Condition. As RICTs are not being incorporated into TS 3.3.1.C or TS 3.3.1.J, this new Condition will not be added to the Callaway TS.
One channel inoperable.	3.3.1.L.1	3.3.1.M.1	3.3.1.K.1	<b>Yes</b>	TSTF-505 changes are incorporated. Condition letter changed per note on 3.3.1.H.1
Required Action and associated Completion Time of Condition L not met.	[NEW TS] 3.3.1.M.1	-	[NEW TS] 3.3.1.L.1	No	Callaway TS do not currently contain this TSTF-505 TS Condition. This new TS Condition will be added consistent with TSTF-505. Wording will be modified to refer to Condition K since L is not accurate due to note on 3.3.1.H.

## ATTACHMENT 5

### Cross-Reference of TSTF-505 and Callaway Technical Specifications

TSTF-505 Tech Spec Section Title/ Condition Description	TSTF-505 TS	Current Callaway TS	Future Callaway TS	Apply RICT?	Comments
One Reactor Coolant Pump Breaker Position (Single Loop) channel inoperable.	3.3.1.N.1	-	-	-	Callaway TS do not contain this TS. Therefore, a change is not proposed to the TS.
Required Action and associated Completion Time of Condition N not met.	3.3.1.O	-	-	-	Callaway TS do not contain this TS. Therefore, a change is not proposed to the TS.
One Reactor Coolant Breaker Position (Two Loops) channel inoperable.	3.3.1.P.1	-	-	-	Callaway TS do not contain this TS. Therefore, a change is not proposed to the TS.
Required Action and associated Completion Time of Condition P not met.	3.3.1.Q.1	-	-	-	Callaway TS do not contain this TS. Therefore, a change is not proposed to the TS.
One Turbine Trip channel inoperable.	3.3.1.R.1	3.3.1.O.1	3.3.1.M.1	<b>Yes</b>	Callaway has these 2 Turbine trip functions for Low Fluid Oil Pressure and Turbine Stop Valve Closure split into two separate TS Conditions. Callaway Condition M is titled, "One Low Fluid Oil Pressure Turbine Trip channel inoperable." See note on 3.3.1.H.1 for letter differences. TSTF-505 changes are incorporated.
One Turbine Trip channel inoperable.	3.3.1.R.1	3.3.1.P.1	3.3.1.N.1	No	Not applying a RICT to this specification. Therefore, TSTF-505 changes are not incorporated.

## ATTACHMENT 5

### Cross-Reference of TSTF-505 and Callaway Technical Specifications

TSTF-505 Tech Spec Section Title/ Condition Description	TSTF-505 TS	Current Callaway TS	Future Callaway TS	Apply RICT?	Comments
Required Action and associated Completion Time of Condition R not met.	[NEW TS] 3.3.1.S	-	[NEW TS] 3.3.1.O.1	No	The Callaway TS do not currently contain this Condition. This new Condition will be added based on TSTF-505 and consistent with the existing Callaway TS. Wording will be modified to refer to Conditions M and N since R is not accurate due to notes on 3.3.1.R.1 above.
One train inoperable.	3.3.1.T.1	3.3.1.Q.1	3.3.1.P.1	<b>Yes</b>	TSTF-505 changes are incorporated. Condition letter changed per note on 3.3.1.H.1
One RTB train inoperable.	3.3.1.U.1	3.3.1.R.1	3.3.1.Q.1	<b>Yes</b>	TSTF-505 changes are incorporated. Condition letter changed per note on 3.3.1.H.1
One or more channels inoperable.	3.3.1.V.1	3.3.1.S.1	3.3.1.R.1	No	TSTF-505 changes are incorporated (not in RICT scope).
One or more channels inoperable.	3.3.1.W.1	3.3.1.T.1	3.3.1.S.1	No	TSTF-505 changes are incorporated (not in RICT scope).
One or more channels inoperable.	3.3.1.V 3.3.1.W	3.3.1.V.1	3.3.1.W.1	No	Condition letter changed per note on 3.3.1.H.1
Required Action and associated Completion Time of Condition W not met.	[NEW TS] 3.3.1.X	-	[NEW TS] 3.3.1.T.1	No	Callaway TS do not currently contain this TSTF-505 Condition. This new Condition will be added consistent with TSTF-505. Wording will be modified to refer to Condition S since W is no longer accurate due to Condition letter changes described in note on 3.3.1.H.1.

## ATTACHMENT 5

### Cross-Reference of TSTF-505 and Callaway Technical Specifications

<b>TSTF-505 Tech Spec Section Title/ Condition Description</b>	<b>TSTF-505 TS</b>	<b>Current Callaway TS</b>	<b>Future Callaway TS</b>	<b>Apply RICT?</b>	<b>Comments</b>
One trip mechanism inoperable for one RTB.	3.3.1.Y.1	3.3.1.U.1	3.3.1.U.1	<b>Yes</b>	TSTF-505 changes are incorporated.
Required Action and associated Completion Time of Condition B, D, E, T, U, V, W, or Y not met.	[NEW TS] 3.3.1.Z	-	[NEW TS] 3.3.1.V.1	No	Callaway TS do not currently contain this Condition. This new Condition will be added consistent with TSTF-505. Wording will be modified to refer to Conditions B, D, E, P, Q, R, or U not met since TSTF-505 conditions are no longer accurate due to Condition letter changes described in note on 3.3.1.H.1.
<b>Engineered Safety Feature Actuation System (ESFAS) Instrumentation</b>	<b>3.3.2</b>	<b>3.3.2</b>	<b>3.3.2</b>		
One channel or train inoperable.	3.3.2.B.1	3.3.2.B.1	3.3.2.B.1	<b>Yes</b>	TSTF-505 changes are incorporated.
One train inoperable.	3.3.2.C.1	3.3.2.C.2	3.3.2.C.2	<b>Yes</b>	TSTF-505 changes are incorporated.
One channel inoperable.	3.3.2.D.1	3.3.2.D.1	3.3.2.D.1	<b>Yes</b>	Function 9.b is not modeled; therefore, Callaway proposes adding a note to make RICT not applicable to Function 9.b. This applies a RICT to Callaway TS 3.3.2, Required Action D.1, consistent with TSTF-505.
One Containment Pressure channel inoperable.	3.3.2.E.1	3.3.2.E.1	3.3.2.E.1	No	TSTF-505 changes are incorporated.
One channel or train inoperable.	3.3.2.F.1	3.3.2.F.1	3.3.2.F.1	<b>Yes</b>	A channel of main steam isolation will be used as a surrogate for function 4(a), function 8(a) is not in the RICT scope. TSTF-505 changes are incorporated.

## ATTACHMENT 5

### Cross-Reference of TSTF-505 and Callaway Technical Specifications

<b>TSTF-505 Tech Spec Section Title/ Condition Description</b>	<b>TSTF-505 TS</b>	<b>Current Callaway TS</b>	<b>Future Callaway TS</b>	<b>Apply RICT?</b>	<b>Comments</b>
One train inoperable.	3.3.2.G.1	3.3.2.G.1	3.3.2.G.1	<b>Yes</b>	TSTF-505 changes are incorporated.
One train inoperable.	3.3.2.H.1	-	-	No	Callaway TS is "One or more trains inoperable." The Conditions and Required Actions for Condition H of TS 3.3.2 vary between Callaway TS and TSTF-505. Therefore, a change is not proposed to the Callaway TS.
One channel inoperable.	3.3.2.I.1	3.3.2.I.1	3.3.2.I.1	<b>Yes</b>	TSTF-505 changes are incorporated.
One Main Feedwater Pumps trip channel inoperable.	3.3.2.J.1	3.3.2.J.1	3.3.2.J.1	<b>Yes</b>	Wording of Callaway TS differs from TSTF-505. Callaway Condition J is "One channel inoperable," and Completion Time is 24 hours vice 48 hours. TSTF-505 changes are incorporated.
One train inoperable.	3.3.2.K.1	3.3.2.K.1	3.3.2.K.1	<b>Yes</b>	Wording of Callaway TS differs from TSTF-505. Callaway Condition K is "One channel inoperable". Callaway completion time requires restoring train to Operable status within 72 hours.
One or more channels inoperable.	3.3.2.L.1	3.3.2.L.1	3.3.2.L.1	No	Wording of Callaway TS differs from TSTF-505. Callaway Condition L is "One or more required channel(s) inoperable". TSTF-505 changes are incorporated (not in RICT scope).
Required Action and associated Completion Time of Conditions B, C, or K not met.	[NEW TS] 3.3.2.M	-	[NEW TS] 3.3.2.T	No	Callaway TS do not currently contain this Condition. This new Condition will be added consistent with TSTF-505.

## ATTACHMENT 5

### Cross-Reference of TSTF-505 and Callaway Technical Specifications

TSTF-505 Tech Spec Section Title/ Condition Description	TSTF-505 TS	Current Callaway TS	Future Callaway TS	Apply RICT?	Comments
Required Action and associated Completion Time of Conditions D, E, F, G, or L not met.	[NEW TS] 3.3.2.N	-	[NEW TS] 3.3.2.U	No	Callaway TS do not currently contain this Condition. This new Condition will be added based on TSTF-505 and consistent with the existing Callaway TS. Wording will be modified to refer to Condition D, E, F, G, L, N, Q, R or S not met. Conditions N, Q, R, and S are Callaway specific.
Required Action and associated Completion Time of Condition H, I, or J not met.	[NEW TS] 3.3.2.O	-	[NEW TS] 3.3.2.V	No	Callaway TS do not currently contain this Condition. This new Condition will be added based on TSTF-505 and consistent with the existing Callaway TS. Wording will be modified to refer to Condition I, J or M not met. Callaway Condition H does not match TSTF-505 so condition H is removed from 3.3.2.V. Condition M is Callaway specific.
[Callaway TS Condition] Two channels inoperable AND AFW actuation on Trip of all Main Feedwater Pumps maintained from one actuation train	-	3.3.2.M.1	3.3.2.M.1	No	This is a Callaway-specific condition not in the NUREG-1431 STS or TSTF-505, Revision 2. Shutdown action now located in Condition V.
[Callaway TS Condition] One or more Containment Pressure - Environmental Allowance Modifier channel(s) inoperable.	-	3.3.2.N.1	3.3.2.N.1	No	This is a Callaway-specific condition not in the NUREG-1431 STS or TSTF-505, Revision 2. Shutdown actions now located in Condition U.



## ATTACHMENT 5

### Cross-Reference of TSTF-505 and Callaway Technical Specifications

<b>TSTF-505 Tech Spec Section Title/ Condition Description</b>	<b>TSTF-505 TS</b>	<b>Current Callaway TS</b>	<b>Future Callaway TS</b>	<b>Apply RICT?</b>	<b>Comments</b>
[Callaway TS Condition] One train inoperable	-	3.3.2.Q.1	3.3.2.Q.1	<b>Yes</b>	This is a Callaway-specific condition not in the NUREG-1431 STS or TSTF-505, Revision 2. Callaway proposes to apply a RICT to Callaway TS 3.3.2, Required Action Q.1, consistent with TSTF-505. Shutdown actions now located in Condition U.
[Callaway TS Condition] One or both train(s) inoperable.	-	3.3.2.R.1	3.3.2.R.1	<b>Yes</b>	This is a Callaway-specific condition not in the NUREG-1431 STS or TSTF-505, Revision 2. Both trains inoperable is a loss of function; therefore, Callaway proposes adding a note to limit applicability of a RICT to one train inoperable and to apply a RICT to Callaway TS 3.3.2, Required Action R.1, consistent with TSTF-505. Shutdown actions now located in Condition U.
[Callaway TS Condition] One train inoperable	-	3.3.2.S.1	3.3.2.S.1	<b>Yes</b>	This is a Callaway-specific condition not in the NUREG-1431 STS or TSTF-505, Revision 2. Callaway proposes to apply a RICT to Callaway TS 3.3.2, Required Action S.1, consistent with TSTF-505. Shutdown actions now located in Condition U.
<b>Loss of Power (LOP) Diesel Generator (DG) Start Instrumentation</b>	<b>3.3.5</b>	<b>3.3.5</b>	<b>3.3.5</b>		
One or more Functions with one channel per bus inoperable.	3.3.5.A.1	3.3.5.A.1	3.3.5.A.1	<b>Yes</b>	TSTF-505 changes are incorporated.

## ATTACHMENT 5

### Cross-Reference of TSTF-505 and Callaway Technical Specifications

<b>TSTF-505 Tech Spec Section Title/ Condition Description</b>	<b>TSTF-505 TS</b>	<b>Current Callaway TS</b>	<b>Future Callaway TS</b>	<b>Apply RICT?</b>	<b>Comments</b>
One or more Functions with two or more channels per bus inoperable.	3.3.5.B.1	3.3.5.B.1	3.3.5.B.1	No	The condition and wording of Callaway TS Function and Required Actions differs from that in TSTF-505 and are excluded by the criteria in TSTF-505. Therefore, TSTF-505 changes are not incorporated.
<b>Boron Dilution Protection System (BDPS)</b>	<b>3.3.9</b>	<b>3.3.9</b>			<b>Callaway TS titled "Boron Dilution Mitigation System (BDMS)"</b>
One train inoperable.	3.3.9.A.1	3.3.9.A.1	3.3.9.A.1	No	Callaway TS LCO is different. Therefore, TSTF-505 changes are not incorporated.
<b>Reactor Coolant System (RCS) Loops -Mode 3</b>	<b>3.4.5</b>	<b>3.4.5</b>	<b>3.4.5</b>		
One required RCS loop inoperable.	3.4.5.A.1	3.4.5.A.1	3.4.5.A.1	No	The proposed Callaway RICT Program is applicable in Modes 1 and 2. This TS is applicable in Mode 3. Therefore, TSTF-505 changes are not incorporated.
One required RCS loop not in operation with Rod Control System capable of rod withdrawal.	3.4.5.C.1 3.4.5.C.2	3.4.5.C.1 3.4.5.C.2	3.4.5.C.1 3.4.5.C.2	No/No	The proposed Callaway RICT Program is applicable in Modes 1 and 2. This TS is applicable in Mode 3. Therefore, TSTF-505 changes are not incorporated.

**ATTACHMENT 5**

**Cross-Reference of TSTF-505 and Callaway Technical Specifications**

<b>TSTF-505 Tech Spec Section Title/ Condition Description</b>	<b>TSTF-505 TS</b>	<b>Current Callaway TS</b>	<b>Future Callaway TS</b>	<b>Apply RICT?</b>	<b>Comments</b>
<b>Pressurizer</b>	<b>3.4.9</b>	<b>3.4.9</b>	<b>3.4.9</b>		
One [required] group of pressurizer heaters inoperable.	3.4.9.B.1	3.4.9.B.1	3.4.9.B.1	No	TSTF-505 changes (which required additional justification) are not incorporated
<b>Pressurizer Power Operated Relief Valves (PORVs)</b>	<b>3.4.11</b>	<b>3.4.11</b>	<b>3.4.11</b>		
One [or two] PORV[s] inoperable and not capable of being manually cycled.	3.4.11.B.3	3.4.11.B.3	3.4.11.B.3	<b>Yes</b>	Callaway TS Condition B is "One PORV inoperable for reasons other than excessive seat leakage." TSTF-505 changes are incorporated.
One [or two] block valve(s) inoperable.	3.4.11.C.2	3.4.11.C.2	3.4.11.C.2	<b>Yes</b>	Callaway TS Condition C is "One block valve inoperable". TSTF-505 changes are incorporated.
<b>ECCS - Operating</b>	<b>3.5.2</b>	<b>3.5.2</b>	<b>3.5.2</b>		
One or more trains inoperable.	3.5.2.A.1	3.5.2.A.1	3.5.2.A.1	<b>Yes</b>	Callaway TS Condition A is "One or more trains inoperable AND At least 100% of the ECCS flow equivalent to a single OPERABLE ECCS train available." TSTF-505 changes are incorporated.

**ATTACHMENT 5**

**Cross-Reference of TSTF-505 and Callaway Technical Specifications**

<b>TSTF-505 Tech Spec Section Title/ Condition Description</b>	<b>TSTF-505 TS</b>	<b>Current Callaway TS</b>	<b>Future Callaway TS</b>	<b>Apply RICT?</b>	<b>Comments</b>
<b>Containment Air Locks (Atmospheric, Subatmospheric, Ice Condenser, and Dual)</b>	<b>3.6.2</b>	<b>3.6.2</b>	<b>3.6.2</b>		<b>Callaway TS LCO is "Containment Air Locks"</b>
One or more containment air locks inoperable for reasons other than Condition A or B.	3.6.2.C.3	3.6.2.C.3	3.6.2.C.3	<b>Yes</b>	TSTF-505 changes are incorporated.
<b>Containment Isolation Valves (Atmospheric, Subatmospheric, Ice Condenser, and Dual)</b>	<b>3.6.3</b>	<b>3.6.3</b>	<b>3.6.3</b>		<b>Callaway TS is "Containment Isolation Valves"</b>
One or more penetration flow paths with one containment isolation valve inoperable [for reasons other than Condition[s] D [and E]].	3.6.3.A.1 3.6.3.A.2	3.6.3.A.1 3.6.3.A.2	3.6.3.A.1 3.6.3.A.2	<b>Yes/No</b>	Wording of Callaway TS differs from TSTF-505. Callaway Condition A is "One or more penetration flow paths with one containment isolation valve inoperable except for containment purge valve leakage not within limit." This Condition is further modified by a Note "Only applicable to penetration flow paths with two containment isolation valves." TSTF-505 changes are incorporated.
One or more penetration flow paths with one containment isolation valve inoperable.	3.6.3.C.1 3.6.3.C.2	3.6.3.C.1 3.6.3.C.2	3.6.3.C.1 3.6.3.C.2	<b>Yes/No</b>	TSTF-505 changes are incorporated.

## ATTACHMENT 5

### Cross-Reference of TSTF-505 and Callaway Technical Specifications

TSTF-505 Tech Spec Section Title/ Condition Description	TSTF-505 TS	Current Callaway TS	Future Callaway TS	Apply RICT?	Comments
<b>Containment Spray and Cooling Systems (Atmospheric and Dual) (Credit taken for iodine removal by the Containment Spray System)</b>	<b>3.6.6A</b>	<b>3.6.6</b>	<b>3.6.6</b>		<b>Callaway TS is Containment Spray and Cooling Systems"</b>
One containment spray train inoperable.	3.6.6A.A.1	3.6.6.A.1	3.6.6.A.1	<b>Yes</b>	TSTF-505 changes are incorporated. TSTF-439 changes are incorporated which delete the second Completion Time for Condition A.
One [required] containment cooling train inoperable.	3.6.6A.C.1	3.6.6.C.1	3.6.6.C.1	<b>Yes</b>	Callaway Condition C is "One containment cooling train inoperable." TSTF-505 changes are incorporated. TSTF-439 changes are incorporated which delete the second Completion Time for Condition C.
Two [required] containment cooling trains inoperable.	3.6.6A.D.1	-	-	No	Callaway TS do not contain this TS. Therefore, TSTF-505 changes are not incorporated.
<b>Main Steam Isolation Valves (MSIVs)</b>	<b>3.7.2</b>	<b>3.7.2</b>	<b>3.7.2</b>		<b>Callaway TS is "Main Steam Isolation Valves (MSIVs), Main Steam Isolation Valve Bypass Valves (MSIVBVs), and Main Steam Low Point Drain Isolation Valves (MSLPDIVs)"</b>
[Callaway TS Condition] One MSIV actuator train inoperable.	-	3.7.2.A.1	3.7.2.A.1	<b>Yes</b>	This is a Callaway-specific condition with restoration action and a completion time of 72 hours. Callaway proposes to apply a RICT to the existing Callaway TS 3.7.2, Action A.1.

## ATTACHMENT 5

### Cross-Reference of TSTF-505 and Callaway Technical Specifications

TSTF-505 Tech Spec Section Title/ Condition Description	TSTF-505 TS	Current Callaway TS	Future Callaway TS	Apply RICT?	Comments
[Callaway TS Condition] Two MSIV actuator trains inoperable for different MSIVs when the inoperable actuator trains are <u>not</u> in the same separation group.	-	3.7.2.B.1	3.7.2.B.1	Yes	This is a Callaway-specific condition with restoration action and a completion time of 24 hours. Callaway proposes to apply a RICT to the existing Callaway TS 3.7.2, Action B.1.
One MSIV inoperable in MODE 1.	3.7.2.A.1	3.7.2.F.1	3.7.2.F.1	Yes	TSTF-505 changes are incorporated.
<b>Atmospheric Dump Valves (ADV)</b>	<b>3.7.4</b>	<b>3.7.4</b>	<b>3.7.4</b>		<b>Callaway TS is "Atmospheric Steam Dump Valves (ASDs)"</b>
One required ADV line inoperable.	3.7.4.A.1	3.7.4.A.1	3.7.4.A.1	Yes	Wording of Callaway TS differs from TSTF-505. Condition 3.7.4.A.1 is "One required ASD line inoperable for reasons other than excessive ASD seat leakage." TSTF-505 changes are incorporated. However, more than two ASD lines inoperable is a loss of function; therefore, Callaway proposes adding a note to prohibit applicability of a RICT when more than 2 ASD lines are inoperable for any reason.

## ATTACHMENT 5

### Cross-Reference of TSTF-505 and Callaway Technical Specifications

TSTF-505 Tech Spec Section Title/ Condition Description	TSTF-505 TS	Current Callaway TS	Future Callaway TS	Apply RICT?	Comments
Two or more required ADV lines inoperable.	3.7.4.B.1	3.7.4.B.1	3.7.4.B.1	Yes	Wording of Callaway TS differs from TSTF-505. Condition 3.7.4.B.1 is, "Two required ASD lines inoperable for reasons other than excessive ASD seat leakage." Callaway completion time for this required action is 72 hours vice 24 hours of TSTF-505. TSTF-505 changes are incorporated. However, more than two ASD lines inoperable is a loss of function; therefore, Callaway proposes adding a note to prohibit applicability of a RICT when more than 2 ASD lines are inoperable for any reason.
<b>Auxiliary Feedwater (AFW) System</b>	<b>3.7.5</b>	<b>3.7.5</b>	<b>3.7.5</b>		
One steam supply to turbine driven AFW pump inoperable.	3.7.5.A.1	3.7.5.A.1	3.7.5.A.1	Yes	TSTF-505 changes are incorporated. TSTF-439 changes are incorporated which delete the second Completion Time for Condition A.
[Callaway TS Condition] One ESW supply to turbine driven AFW pump inoperable.	-	3.7.5.B.1	3.7.5.B.1	Yes	Callaway TS 3.7.5. Condition B is a Callaway-specific condition. Callaway proposes to apply a RICT to the existing Callaway TS 3.7.5, Required Action B.1, consistent with TSTF-505. TSTF-439 changes are incorporated which delete the second Completion Time for Condition C.

**ATTACHMENT 5**

**Cross-Reference of TSTF-505 and Callaway Technical Specifications**

<b>TSTF-505 Tech Spec Section Title/ Condition Description</b>	<b>TSTF-505 TS</b>	<b>Current Callaway TS</b>	<b>Future Callaway TS</b>	<b>Apply RICT?</b>	<b>Comments</b>
One AFW train inoperable in MODE 1, 2, or 3 [for reasons other than Condition A].	3.7.5.B.1	3.7.5.C.1	3.7.5.C.1	<b>Yes</b>	Wording of Callaway TS differs from TSTF-505. Condition 3.7.5.C.1 is, "One AFW train inoperable for reasons other than Condition A or B." TSTF-505 changes are incorporated. TSTF-439 changes are incorporated which delete the second Completion Time for Condition C. Deletion of the Note for a one time exception is addressed in Attachment 1.
<b>Component Cooling Water (CCW) System</b>	<b>3.7.7</b>	<b>3.7.7</b>	<b>3.7.7</b>		
One CCW train inoperable.	3.7.7.A.1	3.7.7.A.1	3.7.7.A.1	<b>Yes</b>	TSTF-505 changes are incorporated.
<b>Service Water System (SWS)</b>	<b>3.7.8</b>	<b>3.7.8</b>	<b>3.7.8</b>		<b>Callaway TS is "Essential Service Water System (ESW)".</b>
One SWS train inoperable.	3.7.8.A.1	3.7.8.A.1	3.7.8.A.1	<b>Yes</b>	Wording of Callaway TS differs from TSTF-505 (i.e., Callaway TS uses "ESW train" instead of "SWS train" in TSTF-505). TSTF-505 changes are incorporated. Deletion of the Note for a one time completion time extension is addressed in Attachment 1.



## ATTACHMENT 5

### Cross-Reference of TSTF-505 and Callaway Technical Specifications

<b>TSTF-505 Tech Spec Section Title/ Condition Description</b>	<b>TSTF-505 TS</b>	<b>Current Callaway TS</b>	<b>Future Callaway TS</b>	<b>Apply RICT?</b>	<b>Comments</b>
<b>Ultimate Heat Sink (UHS)</b>	<b>3.7.9</b>	<b>3.7.9</b>	-		
One or more cooling towers with one cooling tower fan inoperable.	3.7.9.A.1	3.7.9.A.1	3.7.9.A.1	<b>Yes</b>	Wording of Callaway TS differs from TSTF-505. Condition 3.7.9.A.1 is "One cooling tower train inoperable." Callaway completion time for the required action is 72 hours vice 7 days in TSTF-505. TSTF-505 changes are incorporated.
<b>AC Sources - Operating</b>	<b>3.8.1</b>	<b>3.8.1</b>	<b>3.8.1</b>		
One [required] offsite circuit inoperable.	3.8.1.A.3	3.8.1.A.3	3.8.1.A.3	<b>Yes</b>	Callaway TS Condition A is "One offsite circuit inoperable." TSTF-505 changes are incorporated. TSTF-439 changes are incorporated which delete the second Completion Time for Condition A.
One [required] DG inoperable.	3.8.1.B.4	3.8.1.B.4	3.8.1.B.4	<b>Yes</b>	Callaway TS Condition B is "One DG inoperable". . TSTF-505 changes are incorporated. TSTF-439 changes are incorporated which delete the second Completion Time for Condition B. Deletion of the one-time Completion Time extension is discussed in Attachment 1.
Two [required] offsite circuits inoperable.	3.8.1.C.2	3.8.1.C.2	3.8.1.C.2	<b>Yes</b>	Callaway TS Condition C is "Two offsite circuits inoperable." TSTF-505 changes are incorporated.

## ATTACHMENT 5

### Cross-Reference of TSTF-505 and Callaway Technical Specifications

TSTF-505 Tech Spec Section Title/ Condition Description	TSTF-505 TS	Current Callaway TS	Future Callaway TS	Apply RICT?	Comments
One [required] offsite circuit inoperable. <u>AND</u> One [required] DG inoperable.	3.8.1.D.1 3.8.1.D.2	3.8.1.D.1 3.8.1.D.2	3.8.1.D.1 3.8.1.D.2	<b>Yes</b> <b>Yes</b>	Callaway Condition D is "One offsite circuit inoperable. AND One DG inoperable." TSTF-505 changes are incorporated.
One [required] [automatic load sequencer] inoperable.	3.8.1.F.1	3.8.1.F.2	3.8.1.F.2	<b>Yes</b>	Wording of Callaway TS differs from TSTF-505. TS 3.8.1 Condition F is "One required LSELS inoperable." Callaway has an additional specific Required Action, F.1, "Declare the affected DG and offsite circuit inoperable". Required Action F.2 "Restore required LSELS to OPERABLE status" matches TSTF-505 condition F.1. Required Action F.2 is connected with an AND to Required Action F.1. TSTF-505 changes are incorporated.
<b>DC Sources - Operating</b>	<b>3.8.4</b>	<b>3.8.4</b>	<b>3.8.4</b>		
One [or two] battery charger[s on one train] inoperable.	3.8.4.A.3	-	-	No	Callaway TS do not contain this TSTF-505 TS. Therefore, TSTF-505 changes are not incorporated.
One [or two] batter[y][ies on one train] inoperable.	3.8.4.B.1	-	-	No	Callaway TS do not contain this TSTF-505 TS. Therefore, TSTF-505 changes are not incorporated.

**ATTACHMENT 5**

**Cross-Reference of TSTF-505 and Callaway Technical Specifications**

<b>TSTF-505 Tech Spec Section Title/ Condition Description</b>	<b>TSTF-505 TS</b>	<b>Current Callaway TS</b>	<b>Future Callaway TS</b>	<b>Apply RICT?</b>	<b>Comments</b>
One DC electrical power subsystem inoperable for reasons other than Condition A [or B].	3.8.4.C.1	3.8.4.A.1	3.8.4.A.1	<b>Yes</b>	Wording of Callaway TS differs from TSTF-505 TS. Callaway Condition 3.8.9.A.1 is "One DC electrical power subsystem inoperable." TSTF-505 changes are incorporated.
<b>Inverters - Operating</b>	<b>3.8.7</b>	<b>3.8.7</b>	<b>3.8.7</b>		
One [required] inverter inoperable.	3.8.7.A.1	3.8.7.A.1	3.8.7.A.1	<b>Yes</b>	TSTF-505 changes are incorporated.
<b>Distribution Systems-Operating</b>	<b>3.8.9</b>	<b>3.8.9</b>	<b>3.8.9</b>		
One or more AC electrical power distribution subsystems inoperable.	3.8.9.A.1	3.8.9.A.1	3.8.9.A.1	<b>Yes</b>	Wording of Callaway TS differs from TSTF-505. Callaway TS 3.8.9 Condition A is "One AC electrical power distribution subsystem inoperable." TSTF-505 has a Note above Required Action 3.8.9.A.1 that states: "Enter applicable Conditions and Required Actions of LCO 3.8.4, "DC Sources - Operating," for DC trains made inoperable by inoperable power distribution subsystems." Callaway does not have this note. TSTF-505 changes are incorporated. TSTF-439 changes are incorporated which delete the second Completion Time for Condition A.

**ATTACHMENT 5**

**Cross-Reference of TSTF-505 and Callaway Technical Specifications**

<b>TSTF-505 Tech Spec Section Title/ Condition Description</b>	<b>TSTF-505 TS</b>	<b>Current Callaway TS</b>	<b>Future Callaway TS</b>	<b>Apply RICT?</b>	<b>Comments</b>
One or more AC vital buses inoperable.	3.8.9.B.1	3.8.9.B.1	3.8.9.B.1	<b>Yes</b>	Wording of Callaway TS differs from TSTF-505. Callaway TS 3.8.9 Condition B is "One AC vital bus subsystem inoperable." TSTF-505 changes are incorporated. TSTF-439 changes are incorporated which delete the second Completion Time for Condition B.
One or more DC electrical power distribution subsystems inoperable.	3.8.9.C.1	3.8.9.C.1	3.8.9.C.1	<b>Yes</b>	Wording of Callaway TS differs from TSTF-505. Callaway TS 3.8.9 Condition C is "One DC electrical power distribution subsystem inoperable." TSTF-505 changes are incorporated. TSTF-439 changes are incorporated which delete the second Completion Time for Condition C.
<b>Programs and Manuals</b>	<b>5.5</b>	<b>5.5</b>	<b>5.5</b>		
Programs and Manuals	5.5.18	-	5.5.19	No	The Callaway TS do not currently contain this program. The new RICT Program will be added to the Callaway TS 5.5.19 consistent with TSTF-505 R2.