Startup of RBCCW Supplemental Cooling Water Loops

Job Position(s): ☒ RO ☒ SRO

Source: ☒ New ☐ Bank ☐ Modified _____ (Facility ID No. for Bank or Modified)

K/A Reference: 400000.A2.03, Ability to (a) predict the impacts of high/low CCW temperature on the CCWS; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences.

Method of testing: ☒ Simulated/Walk-thru Performance [Classroom/Plant]

☐ Actual Performance [Simulator/Lab]

Type: (Check all that apply)

☐ Administrative Topics ☐ Control Room Systems ☒ In-Plant Systems
☐ Alternate Path ☐ Emergency/Abnormal ☐ ESF
☐ Low-Power/Shutdown ☐ Time Critical

Task Standard: RBCCW Supplemental Cooling Loop 1 is in operation with temperature being maintained at 68-88°F (nominally 71°F).

Validation Time: 30 Minutes

Simulator Setup:

N/A

Required Materials:

23.127.01, RBCCW Supplemental Cooling System

General References:

23.127.01, RBCCW Supplemental Cooling System

Initial Conditions:

GSW temperature is 65°F.

All applicable prerequisites for startup of a RBCCW Supplemental Cooling Water Loop have been completed.

Initiating Cue:

Startup RBCCW Supplemental Cooling Water Loop 1 per 23.127.01, RBCCW Supplemental Cooling System section 5.5.

Performance Information

Critical Steps are annotated by a bold lower case letter **c** and italicized text.

	ELEMENTS	STANDARDS
	NOTE TO EVALUATOR: The following steps are taken from procedure 23.127.01, RBCCW Supplemental Cooling System section 5.5.1	
	EVALUATOR PROMPT Provide appropriate cues to as needed to support opening of the specified valves.	
	a. Open or verify open the following valves: 1) P4200-F226, RBCCWReturn Header SCS-1 Supply X-Tie Iso Vlv (RB1-C13). 2) P4200-F229, RBCCWSupply Header SCS-1 Return X-Tie Iso Vlv (RB1-C13).	Simulates opening P4200-F226 and P4200-F229
	EVALUATOR PROMPT Indicate that the Temperature Control Valve is approximately 50% open.	
	b. Using local manual control, position P42-F232A, RBCCWSCS-1 Temp Control Vlv, to approximately 50% open (AB1-G15).	No action required.
	EVALUATOR PROMPT Provide appropriate cues to indicate start of pump and place of standby pump in AUTO.	
c	*c. At panel P46-P009, perform the following (TBB-K18):* *1) Start P4200-C004A (C), RBCCWSCS-1 Pump A (C).* *2) Place P4200-C004C (A), RBCCWSCS-1 Pump C (A), in AUTO.*	*Red light ON, Green light OFF*
	EVALUATOR PROMPT Indicate Chill Water Temperature is 65°F [insert location of temperature monitor]	
	d. If necessary, adjust Chilled Water Temperature in accordance with Section 7.2.	Observes that temperature is NOT within normal limits.

		ELEMENTS	STANDARDS
		EVALUATOR PROMPT Provide indication that heat exchanger outlet temperature is 65°F and decreasing. Provide appropriate cues as TCV is throttled.	
c	*e.*	*If necessary, using local manual control, throttle P42-F232A, RBCCW SCS-1 Temp Control Vlv, (AB1-G15) to maintain RBCCW Supplemental Cooling temperature at 68-88°F (nominally 71°F), as indicated on P42-R001A, RBCCWSCS-1 Heat Exch Outlet Temp Ind (AB1-G15).*	*Throttles P42-F232A as necessary to achieve a Supplemental Cooling temperature at 68-88°F (nominally 71°F), as indicated on P42-R001A.*

Terminating cue: Terminate JPM when applicant has made appropriate adjustments of TCV to maintain Supplemental Cooling water heat exchanger outlet temperature at 68-88°F (nominally 71°F).

EXAMINEE CUE SHEET

Initial Conditions:

GSW temperature is 65°F.

All applicable prerequisites for startup of a RBCCW Supplemental Cooling Water Loop have been completed.

Initiating Cue:

Startup RBCCW Supplemental Cooling Water Loop 1 per 23.127.01, RBCCW Supplemental Cooling System section 5.5.