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:

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.	
c	*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 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.