Complete the MODE 5 Shiftly/Daily Surveillances

Job Position(s): ☒ RO ☐ SRO

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

K/A Reference: 2.1.44, Knowledge of RO duties in the control room during fuel handling such as responding to alarms from the fuel handling area, communications with the fuel storage facility, systems operated from the control room in support of fueling operations, and supporting instrumentation.

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:

Validation Time:

Simulator Setup: TBD

Reactor MODE switch in REFUEL with key inserted.

Required Materials:

Marked up partially completed 24.000.03, Mode 5 Shiftly, Daily, and Weekly Surveillances

Map of the core showing the current fuel loading status.

General References:

24.000.03, Mode 5 Shiftly, Daily, and Weekly Surveillances

Initial Conditions:

The plant is in MODE 5

You are an extra NSO on shift

The NSO assigned to perform the Mode 5 Shiftly Surveillances had to leave the site due to a family emergency before completing the procedure.

Initiating Cue:

Complete the applicable portions of 24.000.03, Mode 5 Shiftly, Daily, and Weekly Surveillances.

Performance Information

Critical Steps are annotated by "**c"** and italicized text.

	ELEMENTS	STANDARDS
	NOTE:	
	2.0 Suppression Pool Water Level	Marks step as N/A
	Determines from initial conditions that step is N/A	
c	*5.0 Circulating Water Reservoir Decant Radioactivity*	*Inserts "✓" and initials step.*
	Annunciator 3D57 is NOT illuminated.	
c	*6.0 Refuel Position One-Rod-Out Interlock*	*Identifies that key has not been removed from switch.*
	Reactor Mode Switch is Locked in "REFUEL" position.	*Reports status to CRS*
		Removes key after ensuring that switch is in REFUEL position.
		Enters comment in remarks section with reference to step.
c	7.0 Source Range Monitoring (SRM) Instrumentation.	
	Records data for each SRM channel	Records SRM channel readings
	Verifies that each channel indicates ≥ 3.0 cps and < 1E5 cps	Marks "signal-to-noise" check as N/A
	Performs CHANNEL CHECK	*Recognizes that SRM channel ??? is reading higher than plant conditions warrant (detector located in a defueled region.*
		Reports unsat channel check to CRS.

	ELEMENTS	STANDARDS
8.0	Source Range Monitoring (SRM) Instrumentation. Verifies that SRM Operability requirements are met for CORE ALTERATIONS	Inserts "✓" in associated blocks and initials step.
9.0	Intermediate Range Monitors Determines from initial conditions that step is N/A	Marks step as N/A
10.0	Verifies that all control rods are fully inserted.	Inserts "✓" in associated block and initials step.
Completion –	Reviews data entries, prints and signs name, inserts initials, completion date and time, and marks appropriate completion status.	Prints and signs name, inserts initials, completion date and time, and marks appropriate completion status.
	Submits to CRS for review and approval.	Submits to CRS for review and approval.

Terminating cue: Terminate JPM when applicant submits completed package for CRS review.

EXAMINEE CUE SHEET

Initial Conditions:

The plant is in MODE 5
You are an extra NSO on shift
The NSO assigned to perform the Mode 5 Shiftly Surveillances had to leave the site due to a family emergency before completing the procedure.

Initiating Cue:

Complete the applicable portions of 24.000.03, Mode 5 Shiftly, Daily, and Weekly Surveillances.