Energize 480V ESF Bus 72B from 480V ESF Bus 72C - Live Bus Transfer

Job Position(s): ☒ RO ☒ SRO

Source: ☐ New ☒ Bank JP-OP-315-0058-002
☐ Modified (Facility ID No. for Bank or Modified)

K/A Reference: 262001.A4, Ability to manually operate and/or monitor in the control room.

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: 480V Bus 72B is powered from 480V Bus 72C per 23.321

Validation Time: (15 Minutes)

Simulator Setup:

Required Materials:

23.321, Engineered Safety Systems 480V Auxiliary Electrical Distribution Systems

General References:

23.321, Engineered Safety Systems 480V Auxiliary Electrical Distribution Systems

Initial Conditions:

- You are the Control Room NSO.
- The plant is in Mode 4.
- 480V ESF Buses 72B and 72C are being powered from their respective transformers.
- R1400-S022A, Div 1 Bus 72B 4160/480V Transformer, must be removed from service for cleaning.
- The pre-job brief is complete, and the Patrol NSO is standing by locally at the appropriate switchgear.

Initiating Cue:

Energize 480V ESF Bus 72B from 480V ESF Bus 72C.

Performance Information

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

	ELEMENTS	STANDARDS
	1. Verify in Mode 4 or 5 • refer to Enclosure B for transformer limitations, and • declare the cross-tied busses inoperable but functional.	Mode 4 per initial conditions. Refers to Enclosure B 480V Buses 72B and 72C have been declared inoperable but functional.
c	*2. Place CMC switch for 480V ESF Bus 72B position 1C in CLOSE* and verify: • Breaker DOES NOT close. • CMC switch indicates Breaker is tripped.	• *Breaker DOES NOT close.* • *CMC switch indicates Breaker is tripped.*
c	*3. Place CMC switch for 480V ESF Bus 72C position 1C in CLOSE* and verify: • Breaker DOES NOT close. • CMC switch indicates Breaker is tripped.	• *Breaker DOES NOT close.* • *CMC switch indicates Breaker is tripped.*

NOTE TO EVALUATOR: The simulator operator will perform the functions of the Patrol NSO locally operating the breakers.

c	*4. Direct the Patrol NSO to operate the 480V ESF Bus 72C position 1C pull to close latch* and verify: • Breaker closes. • Tripped light is OFF.	• *Breaker red light ON, green light OFF* • *Tripped light is OFF.*
c	*5. Direct the Patrol NSO to operate the 480V ESF Bus 72B position 1C pull to close latch* and verify: • Breaker closes. • Tripped light is OFF.	• *Breaker red light ON, green light OFF* • *Tripped light is OFF.*

	ELEMENTS	STANDARDS
c	*6. Open 480V ESF Bus 72B position 1B by placing its CMC switch in OPEN*, and • verify 480V Bus 72B remains energized.	• *Breaker red light OFF, green light ON* • *Bus voltage approx 480V*
	7. Verify that load limits are not exceeded while cross-tied using Enclosure B.	Enclosure B load limits are not exceeded.

Terminating cue: Terminate JPM when applicant reports that 72B is powered from 72C.

EXAMINEE CUE SHEET

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