

WEEKLY ELECTRICAL BUS SURVEILLANCE - Both Units in Modes 1 thru 4

CONTINUOUS USE

OBJECTIVE
To verify Operability of the offsite transmission network, onsite Class 1E distribution system (except the diesel generators), and the onsite DC systems as required by the Technical Specification Surveillance requirements: SR 3.8.1.1, SR 3.8.7.1, SR 3.8.9.1.

UNIT 2 MODE 1

UNIT 3 MODE 1

DATE 1/21/08

1.0 PREREQUISITES

PERF. BY
INITIALS

- 1.1 VERIFY this document is current by checking a controlled copy or by using the method described in S0123-VI-0.9.
- 1.2 Determine performance requirements of this surveillance:

(b)(6)

<input checked="" type="checkbox"/> Scheduled Surveillance
<input type="checkbox"/> Post Maintenance: WAR # _____
<input type="checkbox"/> Partial Scheduled Surveillance.
<input type="checkbox"/> Other (e.g. Defueled, SDC secured, etc.): _____
TEST COMPONENT(S) _____
<input type="checkbox"/> PERFORM <input type="checkbox"/> MARK N/A STEPS _____
CIRCLE N/A FOR UNUSED STEPS <i>(unused pages may be discarded)</i>

END OF SECTION 1.0

2.0 ACCEPTANCE CRITERIA

NOTE

If desired, then Attachment 3 may be used as an aid in performance of this attachment.

2.1 If any Step is answered NO, then IMMEDIATELY INFORM the SRO Ops. Supervisor, INITIATE a LCOAR or EDMR per applicable Tech. Specs., and document in the COMMENTS section. If only One qualified circuit between the offsite transmission network and the onsite Class 1E AC Electrical Power Distribution System is OPERABLE, then PERFORM S023-3-3.23, Attachment for A.C. Sources Verification.

2.2 Sync Circuit Check.
[SR 3.8.1.1]

■ Perform a Sync Circuit check per S023-6-2, Section for Checking Sync Circuit Operation, and verify that ALL of the following breakers are SAT: (Circle N/A for any out of service breaker.)

2A0418, Res. Aux. Trans. 2XR1 Supply BKR.	SAT / UNSAT / NA
2A0417, Switchgear A04 Bus X-tie BKR.	SAT / UNSAT / NA
3A0418, Res. Aux. Trans. 3XR1 Supply BKR.	SAT / UNSAT / NA
3A0416, Switchgear A04 Bus X-tie BKR.	SAT / UNSAT / NA
2A0618, Res. Aux. Trans. 2XR2 Sup. BKR.	SAT / UNSAT / NA
2A0619, Switchgear A06 Bus X-tie BKR.	SAT / UNSAT / NA
3A0618, Res. Aux. Trans. 3XR2 Sup. BKR.	SAT / UNSAT / NA
3A0603, Switchgear A06 Bus X-tie BKR.	SAT / UNSAT / NA

If any Sync Circuit check is UNSAT, then REFER to Tech Spec. LCO 3.8.1 for the affected Unit and Declare the associated Train EDG INOPERABLE. The INOPERABLE EDG should not be placed in Maintenance Lockout as this would make the EDG unavailable for a real accident. The EDG is considered INOPERABLE because it may not fulfill its function to sync to the 1E bus for EDG Surveillance Runs or during recovery from Loss of Offsite Power event. (ARs 020501290, 031000894-2)

(b)(6)

STEP PERFORMED BY (INITIALS):

2.0 ACCEPTANCE CRITERIA (Continued)

2.3 230 kV Electrical Distribution:
[SR 3.8.1.1]

<p><u>YES/NO/NA</u></p>	<p><input checked="" type="checkbox"/> At least two (2) offsite transmission lines connected to the offsite transmission network (switchyard) with at least one CB Closed on each OPERABLE 230 kV line (for independence, one line shall be from SCE and one line from SDG&E).</p> <p><u>AND</u></p> <p><input checked="" type="checkbox"/> Unit 2: At least two (2) physically independent transmission circuits between the offsite transmission network (switchyard) and the onsite Class 1E distribution system are OPERABLE.</p> <p><u>AND</u></p> <p><input checked="" type="checkbox"/> Unit 3: At least two (2) physically independent transmission circuits between the offsite transmission network (switchyard) and the onsite Class 1E distribution system are OPERABLE.</p>
<p><u>If NO, then REFER to Tech Spec. LCO 3.8.1 for both Units, and PERFORM the requirements of S023-3-3.23, Attachment for A.C. Sources Verification.</u></p>	
<p style="text-align: right;">(b)(6)</p> <p style="text-align: center;">STEP PERFORMED BY (INITIALS)</p>	

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2.0 ACCEPTANCE CRITERIA (Continued)

2.4 4160 V Electrical Distribution:
[SR 3.8.1.1, 3.8.9.1]

YES/NO/NA	<input checked="" type="checkbox"/> All 4160 V Bus Tie Breakers (2A0417, 2A0619, 3A0603 and 3A0416) are Open, OPERABLE, and in AUTO.
	AND
	■ UNIT 2: Both 2A04 and 2A06 are OPERABLE and energized from: <input checked="" type="checkbox"/> Reserve Auxiliary Transformers 2XR1 through breaker 2A0418 and 2XR2 through breaker 2A0618.
	AND
	<input checked="" type="checkbox"/> 2A04 and 2A06 Indicated voltage is $> 4145 \text{ V}$ to $\leq 4575 \text{ V}$.
AND	
■ UNIT 3: Both 3A04 and 3A06 are OPERABLE and energized from: <input checked="" type="checkbox"/> Reserve Auxiliary Transformers 3XR1 through breaker 3A0418 and 3XR2 through breaker 3A0618.	
AND	
<input checked="" type="checkbox"/> 3A04 and 3A06 Indicated voltage is $> 4145 \text{ V}$ to $\leq 4575 \text{ V}$.	
If NO, then REFER to Tech Spec. LCO 3.8.9 for both Units. (b)(6)	
STEP PERFORMED BY (INITIALS):	

2.5 480 V Electrical Distribution:
[SR 3.8.9.1]

YES/NO/NA	<input checked="" type="checkbox"/> All 1E 480 V Load Centers (2B04, 2B06, 3B04 and 3B06) are OPERABLE and energized with indicated voltage between 445 V and 521 V with breakers properly aligned.
If NO, then REFER to Tech Spec LCO 3.8.9. (b)(6)	
STEP PERFORMED BY (INITIALS):	

END OF SECTION 2.5

2.0 ACCEPTANCE CRITERIA (Continued)

2.7 Vital DC Buses:

<p>YES/NO/NA [2], [3] SR 3.8.4.1 SR 3.8.9.1</p>	<p><input checked="" type="checkbox"/> UNIT 2: All DC buses (2D1, 2D2, 2D3 and 2D4) are OPERABLE and energized (indicated bus voltage \geq 129 VDC) by their respective battery banks and full capacity chargers and the associated breakers are properly aligned.</p> <p>AND</p> <p><input checked="" type="checkbox"/> UNIT 3: All DC buses (3D1, 3D2, 3D3 and 3D4) are OPERABLE and energized (indicated bus voltage \geq 129 VDC) by their respective battery banks and full capacity chargers and the associated breakers are properly aligned.</p>
<p>[2] BOOX satisfies the battery requirements for bus 2(3)D1 through 2(3)D4 ONLY when it is connected to that 125 VDC bus. (ECP 001000280-30)</p> <p>[3] If NO, then REFER to Tech. Spec. LCO 3.8.4 and LCO 3.8.9. If 2(3)D1, or 2(3)D2 bus voltages are $<$ 129 VDC, then also REFER to Tech. Spec. LCO 3.8.1 for both Units (provides control power for the 4kv Bus Tie breakers).</p>	
<p>STEP PERFORMED BY (INITIALS): (b)(6)</p>	

COMMENTS: ① 50' data taken by John Billheim

Surveillance completed 1-21-08 11235 and log entry made.
DATE TIME

PERFORMED BY: (b)(6)

REVIEWED BY: 1-21-08 11525
DATE TIME

FILE DISPOSITION: File per S0123-0-A3.

REVIEWED BY

ATTACHMENT 1

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JAN 31 2008

(b)(6)