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# 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	UNIT 3 MODE DATE 2	18/08
1.0	<u>PRERE</u>	QUISITES	PERF. BY INITIALS
	1.1	VERIFY this document is current by checking a controlled copy or by using the method described in SO123-VI-0.9.	(b)(6)
	1.2	Determine performance requirements of this surveillance:	
		🖀 Scheduled Surveillance	L]
		Post Maintenance: WAR #	
		Partial Scheduled Surveillance.	
		Other (e.g. Defueled, SDC secured, etc.):	
		TEST COMPONENT(S)	
		PERFORM MARK N/A STEPS	
		CIRCLE N/A FOR UNUSED STEPS (unused pages may be discurded)	
		1.2.1 Verify all steps in Section 1.0 are complete, and all steps in Section 2.0 required to be circled N/A are correctly circled N/A.	(b)(6) SRO Ops.

END OF SECTION 1.0

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2.0 ACCEPTANCE CRITERIA

# NOTE

<u>If</u> desired, <u>then</u> 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 <u>ALL</u> of the following breakers are SAT: (Circle N/A for any out of service breaker.)

2A0418, Res. Aux. Trans. 2XR1 Supply BKR.
2A0417, Switchgear A04 Bus X-tie BKR.
-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.
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.
<u>If any Sync Circuit check is UNSAT, then</u> REFER to Tech Spec. LCO 3.8.1 for the affected Unit <u>and</u> Declare the associated Train EDG INOPERABLE. The INOPERABLE EDG should <u>not</u> 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 D20501290, 031000894-2)
(b)(6)

STEP PERFORMED BY (INITIALS):

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# 2.0 ACCEPTANCE CRITERIA (Continued)

2.3 **230 kV Electrical Distribution:** [SR 3.8.1.1]

YES/NO/NA	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).
	AND
	S 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.
	AND
	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.
If NO, the requirement	<u>n</u> REFER to Tech Spec. LCO 3.8.1 for <u>both</u> Units, <u>and</u> PERFORM the ts of SO23-3-3.23, Attachment for A.C. Sources Verification.
	(b)(6) STEP PERFORMED BY (INITIALS):

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#### 2.0 ACCEPTANCE CRITERIA (Continued)





If NO, then REFER to Tech Spec LCO 3.8.9.

STEP PERFORMED BY (INITIALS):

(b)(6)

END OF SECTION 2.5

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#### ACCEPTANCE\_CRITERIA (Continued) 2.0

Vital AC Buses: 2.6

YES/NA SR 3.8.7.1	NOTE: Electrical Test Personnel are authorized to adjust Inverter Output Voltages <u>after</u> the "As-Found" Inverter Output Voltages have been recorded.
	<ul> <li>RECORD the "As-Found" Inverter Output Voltages obtained from Inverters and/or Electrical Test using a Fluke 187 V.O.M. or equivalent: (Enter N/A for voltage associated with any Out-Of-Service Inverter.)</li> </ul>
	<u>121.6</u> Volts <u>122.1</u> Volts <u>121.3</u> Volts <u>121.9</u> Volts 2Y001 2Y002 2Y003 2Y004
	<u>122.</u> Volts <u>121.7</u> Volts <u>121.3</u> Volts <u>121.1</u> Volts <u>3Y001</u> <u>3Y002</u> <u>3Y003</u> <u>3Y004</u> Volts
	If any voltages are obtained from Electrical Test, then enter the name of the Technician:
	Name of Electrical Test Tech DATE / TIME
YES/NO/NA [1] SR 3.8.9.1	UNIT 2: <u>All</u> vital buses (2Y01, 2Y02, 2Y03 and 2Y04) are OPERABLE and energized by their associated inverters, with the inverters powered from their respective DC buses <u>and</u> the Inverter Output Voltages are between 119.5 V and 125.0 V.
	INIT 3: <u>All</u> Vital buses (3Y01, 3Y02, 3Y03 and 3Y04) are OPERABLE and energized by their associated inverters, with the inverters powered from their respective DC buses <u>and</u> the Inverter Output Voltages are between 119.5 V and 125.0 V.
[1] <u>If</u> NO, <u>t</u>	hen Refer to Tech. Spec. LCO 3.8.7 and LCO 3.8.9.
<u>If</u> Inver	ter Output Voltage(s) are <u>not</u> between 119.5 V and 125.0 V, <u>then</u> :
a) In	itiate a LCOAR.
b) No an	tify Electrical Test to adjust Inverter Output Voltages to obtain "As-Left" voltage of between 121.0 V and 123.0 V.
c) Wr	ite an AR against the associated Inverter(s).
d) Do In	cument the LCOAR Number, AR Number, "As-Found", and "As-Left" verter Voltages in the Comments Section.
e) <u>1f</u> 12	the "As-Left" Inverter Voltage(s) are between 121.0 V and 3.0 V, <u>then</u> CLOSE Out the associated LCOAR.
	(b)(6) STEP PERFORMED BY (INITIALS):

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0 ACCEPTANCE CRITERIA	(Continued)	
2.7 Vital DC Buse	5:	
VES/NO/NA     UNIT 2:       [2], [3]     and end       [5R 3.8.4.1     assoc       SR 3.8.9.1     AND	<u>All</u> DC buses (2D1, 2D2, 2D3 and 2D4) nergized (indicated bus voltage $\geq$ 129 VI ctive battery banks and full capacity cl iated breakers are properly aligned.	are OPERABLE DC) by their hargers <u>and</u> the
UNIT 3: energiz respect associa	<u>All</u> DC buses (3D1, 3D2, 3D3 and 3D4) ed (indicated bus voltage $\geq$ 129 VDC) by ive battery banks and full capacity cha ted breakers are properly aligned.	are OPERABLE and their rgers <u>and</u> the
[2] BOOX satisfies the ONLY when it is con	battery requirements for bus 2(3)D1 thr nected to that 125 VDC bus. (ECP 00100	ough 2(3)D4 0280-30)
[3] <u>If</u> NO, <u>then</u> REFER t <u>or</u> 2(3)D2 bus volta LCO 3.8.1 for <u>both</u> breakers).	o Tech. Spec. LCO 3.8.4 and LCO 3.8.9. ges are < 129 VOC, <u>then</u> also REFER to T Units (provides control power for the 4	<u>If</u> 2(3)D1, ech. Spec. kv Bus Tie
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