

ATTACHMENT C

**PROPOSED TECHNICAL SPECIFICATION
SURVEILLANCE REQUIREMENTS 3.3.7.3 AND 3.3.7.4
SAN ONOFRE UNIT 2
(REDLINE AND STRIKEOUT)**

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SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
SR 3.3.7.1 Perform CHANNEL CHECK.	12 hours
SR 3.3.7.2 Perform CHANNEL FUNCTIONAL TEST.	24 months
<p>SR 3.3.7.3 Perform CHANNEL CALIBRATION with setpoint Allowable Values as follows:</p> <p>a. Degraded Voltage Function: ≥ 4181 V and ≤ 4275 V</p> <p>i. Dropout ≥ 4196 V</p> <p>ii. Pickup ≤ 4281 V</p> <p>SDVSS (Sustained Degraded Grid Voltage Signal):</p> <p>Time delay:</p> <p>i. 127D ≥ 1.8 seconds and ≤ 2.2 2.17 seconds.</p> <p>ii. 162D ≥ 88 seconds and ≤ 132 128 seconds.</p> <p>DGVSS (Degraded Grid Voltage with SIAS Signal):</p> <p>Time delay:</p> <p>i. 127D $\geq 1.81.83$ seconds and ≤ 2.2 2.17 seconds.</p> <p>ii. 162S $\geq 4.114.16$ seconds and $\leq 4.494.44$ seconds.</p> <p>iii. 162T $\geq 0.850.88$ seconds and $\leq 1.651.62$ seconds.</p> <p>b. Loss of Voltage Function ≥ 3554 V and ≤ 3796 V</p> <p>Time delay: ≥ 0.95 seconds and $\leq 1.051.0$ seconds at 0 V.</p>	24 months
<p>SR 3.3.7.4 Verify Response Time of required DG-LOV channel is within 1.05 seconds.</p>	<p>24 months on a STAGGERED TEST BASIS</p>

ATTACHMENT D

**PROPOSED TECHNICAL SPECIFICATION
SURVEILLANCE REQUIREMENTS 3.3.7.3 AND 3.3.7.4
SAN ONOFRE UNIT 3
(REDLINE AND STRIKEOUT)**

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
SR 3.3.7.1 Perform CHANNEL CHECK.	12 hours
SR 3.3.7.2 Perform CHANNEL FUNCTIONAL TEST.	24 months
<p>SR 3.3.7.3 Perform CHANNEL CALIBRATION with setpoint Allowable Values as follows:</p> <p>a. Degraded Voltage Function: ≥ 4181 V and ≤ 4275 V</p> <p>i. Dropout ≥ 4196 V</p> <p>ii. Pickup ≤ 4281 V</p> <p>SDVSS (Sustained Degraded Grid Voltage Signal):</p> <p>Time delay:</p> <p>i. 127D ≥ 1.8 seconds and ≤ 2.2 2.17 seconds.</p> <p>ii. 162D ≥ 88 seconds and ≤ 132 128 seconds.</p> <p>DGVSS (Degraded Grid Voltage with SIAS Signal):</p> <p>Time delay:</p> <p>i. 127D $\geq 1.81.83$ seconds and ≤ 2.2 2.17 seconds.</p> <p>ii. 162S $\geq 4.114.16$ seconds and $\leq 4.494.44$ seconds.</p> <p>iii. 162T $\geq 0.850.88$ seconds and $\leq 1.651.62$ seconds.</p> <p>b. Loss of Voltage Function ≥ 3554 V and ≤ 3796 V</p> <p>Time delay: ≥ 0.95 seconds and $\leq 1.051.0$ seconds at 0 V.</p>	24 months
SR 3.3.7.4 Verify Response Time of required DG-LOV channel is within 1.05 seconds.	24 months on a STAGGERED TEST BASIS

ATTACHMENT E

**PROPOSED TECHNICAL SPECIFICATION
SURVEILLANCE REQUIREMENT 3.3.7.3
SAN ONOFRE UNIT 2**

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
SR 3.3.7.1 Perform CHANNEL CHECK.	12 hours
SR 3.3.7.2 Perform CHANNEL FUNCTIONAL TEST.	24 months
SR 3.3.7.3 Perform CHANNEL CALIBRATION with setpoint Allowable Values as follows: a. Degraded Voltage Function: i. Dropout ≥ 4196 V ii. Pickup ≤ 4281 V SDVS (Sustained Degraded Grid Voltage Signal): Time delay: i. 127D ≤ 2.17 seconds. ii. 162D ≤ 128 seconds. DGVSS (Degraded Grid Voltage with SIAS Signal): Time delay: i. 127D ≥ 1.83 seconds and ≤ 2.17 seconds. ii. 162S ≥ 4.16 seconds and ≤ 4.44 seconds. iii. 162T ≥ 0.88 seconds and ≤ 1.62 seconds. b. Loss of Voltage Function ≥ 3554 V Time delay: ≤ 1.0 seconds at 0 V.	24 months

ATTACHMENT F

**PROPOSED TECHNICAL SPECIFICATION
SURVEILLANCE REQUIREMENT 3.3.7.3
SAN ONOFRE UNIT 3**

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
SR 3.3.7.1 Perform CHANNEL CHECK.	12 hours
SR 3.3.7.2 Perform CHANNEL FUNCTIONAL TEST.	24 months
SR 3.3.7.3 Perform CHANNEL CALIBRATION with setpoint Allowable Values as follows: <ul style="list-style-type: none"> a. Degraded Voltage Function: <ul style="list-style-type: none"> i. Dropout \geq 4196 V ii. Pickup \leq 4281 V <p>SDVS (Sustained Degraded Grid Voltage Signal):</p> <p>Time delay:</p> <ul style="list-style-type: none"> i. 127D \leq 2.17 seconds. ii. 162D \leq 128 seconds. <p>DGVSS (Degraded Grid Voltage with SIAS Signal):</p> <p>Time delay:</p> <ul style="list-style-type: none"> i. 127D \geq 1.83 seconds and \leq 2.17 seconds. ii. 162S \geq 4.16 seconds and \leq 4.44 seconds. iii. 162T \geq 0.88 seconds and \leq 1.62 seconds. b. Loss of Voltage Function \geq 3554 V <p>Time delay: \leq 1.0 seconds at 0 V.</p>	24 months