

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>C. -----NOTES-----            1. Not applicable to Unit 1 during replacement of the Unit 2 Division 2 CSCS isolation valves during Unit 2 Refueling 11 while Unit 2 is in MODE 4, 5, or defueled.             2. Not applicable to Unit 2 during replacement of the Unit 1 Division 2 CSCS isolation valves during Unit 1 Refueling 12 while Unit 1 is in MODE 4, 5, or defueled.             -----            Required Division 3 DG inoperable.   <u>OR</u>             One required Division 1, 2, or 3 DG inoperable and the required opposite unit Division 2 DG inoperable.</p>	<p>C.1 Perform SR 3.8.1.1 for OPERABLE required offsite circuit(s).   <u>AND</u>            C.2 Declare required feature(s), supported by the inoperable DG(s), inoperable when the redundant required feature(s) are inoperable.   <u>AND</u>            C.3.1 Determine OPERABLE DG(s) are not inoperable due to common cause failure.   <u>OR</u>            C.3.2 Perform SR 3.8.1.2 for OPERABLE DG(s).   <u>AND</u>            C.4 Restore required DG(s) to OPERABLE status.</p>	<p>1 hour  <u>AND</u>            Once per 8 hours thereafter             4 hours from discovery of Condition C concurrent with inoperability of redundant required feature(s)             24 hours             24 hours             72 hours  <u>AND</u>            17 days from discovery of failure to meet LCO 3.8.1.a or b</p>

(continued)

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>F. -----NOTES-----</p> <p>1. Not applicable to Unit 1 during replacement of the Unit 2 Division 2 CSCS isolation valves during Unit 2 Refueling 11 while Unit 2 is in MODE 4,5, or defueled.</p> <p>2. Not applicable to Unit 2 during replacement of the Unit 1 Division 2 CSCS isolation valves during Unit 1 Refueling 12 while Unit 1 is in MODE 4,5, or defueled.</p> <p>-----</p> <p>Two required Division 1, 2, or 3 DGs inoperable.</p> <p><u>OR</u></p> <p>Division 2 DG and the required opposite unit Division 2 DG inoperable.</p>	<p>F.1 Restore one required DG to OPERABLE status.</p>	<p>2 hours</p> <p><u>OR</u></p> <p>72 hours if Division 3 DG is inoperable</p>

(continued)

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>G. -----NOTES-----</p> <p>1. Only applicable to Unit 1 during replacement of the Unit 2 Division 2 CSCS isolation valves during Unit 2 Refueling 11 while Unit 2 is in MODE 4,5, or defueled.</p> <p>2. Only applicable to Unit 2 during replacement of the Unit 1 Division 2 CSCS isolation valves during Unit 1 Refueling 12 while Unit 1 is in MODE 4,5, or defueled.</p> <p>-----</p> <p>Division 2 DG and the required opposite unit Division 2 DG inoperable.</p>	<p>G.1 Restore required Division 2 DG to OPERABLE status.</p>	<p>6 days</p>
<p>H. Required Action and associated Completion Time of Condition A, B, C, D, E, F or G not met.</p>	<p>H.1 Be in MODE 3. <u>AND</u> H.2 Be in MODE 4.</p>	<p>12 hours  36 hours</p>
<p>I. Three or more required AC sources inoperable.</p>	<p>I.1 Enter LCO 3.0.3.</p>	<p>Immediately</p>

SURVEILLANCE REQUIREMENTS

-----NOTES-----

1. SR 3.8.1.1 through SR 3.8.1.20 are applicable only to the given unit's AC electrical power sources.
  2. SR 3.8.1.21 is applicable to the required opposite unit's DG.
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SURVEILLANCE	FREQUENCY
SR 3.8.1.1      Verify correct breaker alignment and indicated power availability for each required offsite circuit.	7 days
SR 3.8.1.2      -----NOTES----- <ol style="list-style-type: none"> <li>1. All DG starts may be preceded by an engine prelube period and followed by a warmup period prior to loading.</li> <li>2. A modified DG start involving idling and gradual acceleration to synchronous speed may be used for this SR as recommended by the manufacturer. When modified start procedures are not used, the time, voltage, and frequency tolerances of SR 3.8.1.7 must be met.</li> <li>3. A single test of the common DG at the specified Frequency will satisfy the Surveillance for both units.</li> </ol> <p>-----</p> Verify each required DG starts from standby conditions and achieves steady state voltage $\geq 4010$ V and $\leq 4310$ V and frequency $\geq 58.8$ Hz and $\leq 61.2$ Hz.	31 days

(continued)

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
<p>SR 3.8.1.3 -----NOTES-----</p> <ol style="list-style-type: none"> <li>1. DG loadings may include gradual loading as recommended by the manufacturer.</li> <li>2. Momentary transients outside the load range do not invalidate this test.</li> <li>3. This Surveillance shall be conducted on only one DG at a time.</li> <li>4. This SR shall be preceded by, and immediately follow, without shutdown, a successful performance of SR 3.8.1.2 or SR 3.8.1.7.</li> <li>5. A single test of the common DG at the specified Frequency will satisfy the Surveillance for both units.</li> </ol> <p>-----</p> <p>Verify each required DG is synchronized and loaded and operates for <math>\geq 60</math> minutes at a load <math>\geq 2400</math> kW and <math>\leq 2600</math> kW.</p>	<p>31 days</p>
<p>SR 3.8.1.4 Verify each required day tank contains <math>\geq 250</math> gal of fuel oil for Divisions 1 and 2 and <math>\geq 550</math> gal for Division 3.</p>	<p>31 days</p>
<p>SR 3.8.1.5 Check for and remove accumulated water from each required day tank.</p>	<p>31 days</p>
<p>SR 3.8.1.6 Verify each required fuel oil transfer system operates to automatically transfer fuel oil from storage tanks to the day tank.</p>	<p>92 days</p>

(continued)

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
<p>SR 3.8.1.7 -----NOTES-----</p> <ol style="list-style-type: none"> <li>1. All DG starts may be preceded by an engine prelube period.</li> <li>2. A single test of the common DG at the specified Frequency will satisfy the Surveillance for both units.</li> </ol> <p>-----</p> <p>Verify each required DG starts from standby condition and achieves:</p> <ol style="list-style-type: none"> <li>a. In <math>\leq 13</math> seconds, voltage <math>\geq 4010</math> V and frequency <math>\geq 58.8</math> Hz; and</li> <li>b. Steady state voltage <math>\geq 4010</math> V and <math>\leq 4310</math> V and frequency <math>\geq 58.8</math> Hz and <math>\leq 61.2</math> Hz.</li> </ol>	<p>184 days</p>
<p>SR 3.8.1.8 -----NOTE-----</p> <p>This Surveillance shall not normally be performed in MODE 1 or 2. However, this Surveillance may be performed to reestablish OPERABILITY provided an assessment determines the safety of the plant is maintained or enhanced. Credit may be taken for unplanned events that satisfy this SR.</p> <p>-----</p> <p>Verify manual transfer of unit power supply from the normal offsite circuit to the alternate offsite circuit.</p>	<p>24 months</p>

(continued)

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
<p>SR 3.8.1.9 -----NOTES-----</p> <ol style="list-style-type: none"> <li>1. This Surveillance shall not normally be performed in MODE 1 or 2. However, this Surveillance may be performed to reestablish OPERABILITY provided an assessment determines the safety of the plant is maintained or enhanced. Credit may be taken for unplanned events that satisfy this SR.</li> <li>2. A single test of the common DG at the specified Frequency will satisfy the Surveillance for both units.</li> </ol> <p>-----</p> <p>Verify each required DG rejects a load greater than or equal to its associated single largest post-accident load and following load rejection, the frequency is <math>\leq 66.7</math> Hz.</p>	<p>24 months</p>
<p>SR 3.8.1.10 -----NOTES-----</p> <ol style="list-style-type: none"> <li>1. This Surveillance shall not normally be performed in MODE 1 or 2. However, this Surveillance may be performed to reestablish OPERABILITY provided an assessment determines the safety of the plant is maintained or enhanced. Credit may be taken for unplanned events that satisfy this SR.</li> <li>2. A single test of the common DG at the specified Frequency will satisfy the Surveillance for both units.</li> </ol> <p>-----</p> <p>Verify each required DG does not trip and voltage is maintained <math>\leq 5000</math> V during and following a load rejection of a load <math>\geq 2600</math> kW.</p>	<p>24 months</p>

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SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
<p>SR 3.8.1.11 -----NOTES-----</p> <ol style="list-style-type: none"> <li>1. All DG starts may be preceded by an engine prelube period.</li> <li>2. This Surveillance shall not normally be performed in MODE 1 or 2. However, portions of the Surveillance may be performed to reestablish OPERABILITY provided an assessment determines the safety of the plant is maintained or enhanced. Credit may be taken for unplanned events that satisfy this SR.</li> </ol> <p>-----</p> <p>Verify on an actual or simulated loss of offsite power signal:</p> <ol style="list-style-type: none"> <li>a. De-energization of emergency buses;</li> <li>b. Load shedding from emergency buses for Divisions 1 and 2 only; and</li> <li>c. DG auto-starts from standby condition and:               <ol style="list-style-type: none"> <li>1. energizes permanently connected loads in <math>\leq 13</math> seconds,</li> <li>2. energizes auto-connected shutdown loads,</li> <li>3. maintains steady state voltage <math>\geq 4010</math> V and <math>\leq 4310</math> V,</li> <li>4. maintains steady state frequency <math>\geq 58.8</math> Hz and <math>\leq 61.2</math> Hz, and</li> <li>5. supplies permanently connected and auto-connected shutdown loads for <math>\geq 5</math> minutes.</li> </ol> </li> </ol>	<p>24 months</p>

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SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
<p>SR 3.8.1.12 -----NOTES-----</p> <ol style="list-style-type: none"> <li>1. All DG starts may be preceded by an engine prelube period.</li> <li>2. This Surveillance shall not normally be performed in MODE 1 or 2. However, portions of the Surveillance may be performed to reestablish OPERABILITY provided an assessment determines the safety of the plant is maintained or enhanced. Credit may be taken for unplanned events that satisfy this SR.</li> </ol> <p>-----</p> <p>Verify on an actual or simulated Emergency Core Cooling System (ECCS) initiation signal each required DG auto-starts from standby condition and:</p> <ol style="list-style-type: none"> <li>a. In <math>\leq 13</math> seconds after auto-start, achieves voltage <math>\geq 4010</math> V and frequency <math>\geq 58.8</math> Hz;</li> <li>b. Achieves steady state voltage <math>\geq 4010</math> V and <math>\leq 4310</math> V and frequency <math>\geq 58.8</math> Hz and <math>\leq 61.2</math> Hz; and</li> <li>c. Operates for <math>\geq 5</math> minutes.</li> </ol>	<p>24 months</p>

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SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
<p>SR 3.8.1.13 -----NOTE-----            This Surveillance shall not normally be performed in MODE 1 or 2. However, this Surveillance may be performed to reestablish OPERABILITY provided an assessment determines the safety of the plant is maintained or enhanced. Credit may be taken for unplanned events that satisfy this SR.            -----            Verify each required DG's automatic trips are bypassed on an actual or simulated ECCS initiation signal except:</p> <ul style="list-style-type: none"> <li>a. Engine overspeed; and</li> <li>b. Generator differential current.</li> </ul>	<p>24 months</p>

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SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
<p>SR 3.8.1.14 -----NOTES-----</p> <ol style="list-style-type: none"> <li>1. Momentary transients outside the load and power factor ranges do not invalidate this test.</li> <li>2. This Surveillance shall not normally be performed in MODE 1 or 2 unless the other two DGs are OPERABLE. If either of the other two DGs becomes inoperable, this Surveillance shall be suspended. However, this Surveillance may be performed to reestablish OPERABILITY provided an assessment determines the safety of the plant is maintained or enhanced. Credit may be taken for unplanned events that satisfy this SR.</li> <li>3. If grid conditions do not permit, the power factor limit is not required to be met. Under this condition, the power factor shall be maintained as close to the limit as practicable.</li> <li>4. A single test of the common DG at the specified Frequency will satisfy the Surveillance for both units.</li> </ol> <p>-----</p> <p>Verify each required DG operating within the power factor limit operates for <math>\geq 24</math> hours:</p> <ol style="list-style-type: none"> <li>a. For <math>\geq 2</math> hours loaded <math>\geq 2860</math> kW; and</li> <li>b. For the remaining hours of the test loaded <math>\geq 2400</math> kW and <math>\leq 2600</math> kW.</li> </ol>	<p>24 months</p>

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SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
<p>SR 3.8.1.15 -----NOTES-----</p> <ol style="list-style-type: none"> <li>1. This Surveillance shall be performed within 5 minutes of shutting down the DG after the DG has operated <math>\geq 2</math> hours loaded <math>\geq 2400</math> kW and <math>\leq 2600</math> kW.</li> </ol> <p style="padding-left: 40px;">Momentary transients outside of load range do not invalidate this test.</p> <ol style="list-style-type: none"> <li>2. All DG starts may be preceded by an engine prelube period.</li> <li>3. A single test of the common DG at the specified Frequency will satisfy the Surveillance for both units.</li> </ol> <p>-----</p> <p>Verify each required DG starts and achieves:</p> <ol style="list-style-type: none"> <li>a. In <math>\leq 13</math> seconds, voltage <math>\geq 4010</math> V and frequency <math>\geq 58.8</math> Hz; and</li> <li>b. Steady state voltage <math>\geq 4010</math> V and <math>\leq 4310</math> V and frequency <math>\geq 58.8</math> Hz and <math>\leq 61.2</math> Hz.</li> </ol>	<p>24 months</p>

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SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
<p>SR 3.8.1.16 -----NOTE-----  This Surveillance shall not normally be performed in MODE 1 or 2. However, this Surveillance may be performed to reestablish OPERABILITY provided an assessment determines the safety of the plant is maintained or enhanced. Credit may be taken for unplanned events that satisfy this SR.  -----  Verify each required DG:  a. Synchronizes with offsite power source while loaded with emergency loads upon a simulated restoration of offsite power;  b. Transfers loads to offsite power source; and  c. Returns to ready-to-load operation.</p>	<p>24 months</p>

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SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
<p>SR 3.8.1.17 -----NOTE-----  This Surveillance shall not normally be performed in MODE 1 or 2. However, portions of the Surveillance may be performed to reestablish OPERABILITY provided an assessment determines the safety of the plant is maintained or enhanced. Credit may be taken for unplanned events that satisfy this SR.  -----</p> <p>Verify, with a required DG operating in test mode and connected to its bus:</p> <ul style="list-style-type: none"> <li>a. For Division 1 and 2 DGs, an actual or simulated ECCS initiation signal overrides the test mode by returning DG to ready-to-load operation; and</li> <li>b. For Division 3 DG, an actual or simulated DG overcurrent trip signal automatically disconnects the offsite power source while the DG continues to supply normal loads.</li> </ul>	<p>24 months</p>
<p>SR 3.8.1.18 -----NOTE-----  This Surveillance shall not normally be performed in MODE 1 or 2. However, this Surveillance may be performed to reestablish OPERABILITY provided an assessment determines the safety of the plant is maintained or enhanced. Credit may be taken for unplanned events that satisfy this SR.  -----</p> <p>Verify interval between each sequenced load block, for Division 1 and 2 DGs only, is <math>\geq 90\%</math> of the design interval for each time delay relay.</p>	<p>24 months</p>

(continued)

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
<p>SR 3.8.1.19 -----NOTES-----</p> <ol style="list-style-type: none"> <li>1. All DG starts may be preceded by an engine prelube period.</li> <li>2. This Surveillance shall not normally be performed in MODE 1 or 2. However, portions of the Surveillance may be performed to reestablish OPERABILITY provided an assessment determines the safety of the plant is maintained or enhanced. Credit may be taken for unplanned events that satisfy this SR.</li> </ol> <p>-----</p> <p>Verify, on an actual or simulated loss of offsite power signal in conjunction with an actual or simulated ECCS initiation signal:</p> <ol style="list-style-type: none"> <li>a. De-energization of emergency buses;</li> <li>b. Load shedding from emergency buses for Divisions 1 and 2 only; and</li> <li>c. DG auto-starts from standby condition and:               <ol style="list-style-type: none"> <li>1. energizes permanently connected loads in <math>\leq 13</math> seconds,</li> <li>2. energizes auto-connected emergency loads including through time delay relays, where applicable,</li> <li>3. maintains steady state voltage <math>\geq 4010</math> V and <math>\leq 4310</math> V,</li> <li>4. maintains steady state frequency <math>\geq 58.8</math> Hz and <math>\leq 61.2</math> Hz, and</li> <li>5. supplies permanently connected and auto-connected emergency loads for <math>\geq 5</math> minutes.</li> </ol> </li> </ol>	<p>24 months</p>

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SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
<p>SR 3.8.1.20 -----NOTE----- All DG starts may be preceded by an engine prelube period. ----- Verify, when started simultaneously from standby condition, each required DG achieves, in <math>\leq 13</math> seconds, voltage <math>\geq 4010</math> V and frequency <math>\geq 58.8</math> Hz.</p>	<p>10 years</p>
<p>SR 3.8.1.21 -----NOTE----- When the opposite unit is in MODE 4 or 5, or moving irradiated fuel assemblies in secondary containment, the following opposite unit SRs are not required to be performed: SR 3.8.1.3, SR 3.8.1.9 through SR 3.8.1.11, SR 3.8.1.14 through SR 3.8.1.16. ----- For required opposite unit DG, the SRs of the opposite unit's Specification 3.8.1, except SR 3.8.1.12, SR 3.8.1.13, SR 3.8.1.17, SR 3.8.1.18, SR 3.8.1.19, and SR 3.8.1.20, are applicable.</p>	<p>In accordance with applicable SRs</p>