

ATTACHMENT D

**FLORIDA POWER CORPORATION
CRYSTAL RIVER UNIT 3
DOCKET NUMBER 50-302/LICENSE NUMBER DPR-72**

**TECHNICAL SPECIFICATION
CHANGE REQUEST NOTICE 215**

STRIKEOUT/SHADOW PAGES

Deletions are indicated by strikeout.
Additional and replacement text are indicated by shading.

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
<p>SR 3.3.8.1 -----NOTE----- When EDG LOPS instrumentation is placed in an inoperable status solely for performance of this Surveillance, entry into associated Conditions and Required Actions may be delayed as follows: (a) up to 4 hours for the degraded voltage Function, and (b) up to 4 hours for the loss of voltage Function, provided the two channels monitoring the Function for the bus are OPERABLE or tripped. ----- Perform CHANNEL FUNCTIONAL TEST.</p>	<p>31 days <u>OR</u> -----NOTE----- Not effective after November 23, 1997. ----- 60 days</p>
<p>SR 3.3.8.2 -----NOTE----- Voltage sensors may be excluded from CHANNEL CALIBRATION. ----- Perform CHANNEL CALIBRATION with setpoint Allowable Value as follows: a. Degraded voltage ≥ 3933 and ≤ 3970 V with a time delay of 5.0 seconds ± 0.5 seconds; and b. Sudden loss of voltage from full voltage to 0.0 V with a time delay of 7.8 seconds ± 0.55 seconds at 0.0 V.</p>	<p>18 months</p>

BASES

ACTIONS
(continued)

C.1

Condition C is the default Condition should Required Action A.1 or B.1 not be met within the associated Completion Time.

Required Action C.1 ensures that Required Actions for affected diesel generator inoperabilities are initiated. Depending on MODE, the Actions specified in LCO 3.8.1, "AC Sources - Operating," or LCO 3.8.2, are required to be entered immediately.

SURVEILLANCE
REQUIREMENTS

SR 3.3.8.1

A CHANNEL FUNCTIONAL TEST is performed on each required EDG LOPS channel to ensure the entire channel will perform the intended function. This test ensures functionality of each channel to output relays.

The Frequency of 31 days is considered reasonable based on the reliability of the components and on operating experience.

A temporary extension of the frequency has been made to indicate "31 days or 60 days" as the frequency. This temporary condition applies to a one-time performance of the surveillance on each diesel generator and will not be effective after November 23, 1997. The need for this temporary extension of the frequency became evident during replacement of the radiator on the EDGs. This activity had a minimum duration of 42 days, which was in excess of the 31 day frequency. Performance of the surveillance on one EDG with the other EDG inoperable because of the radiator replacement was considered as not the safest and most prudent course of action. A note has been added to the frequency to indicate that the 60-day frequency is not effective after November 23, 1997.

A Note has been added to allow performance of the SR without taking the ACTIONS for an inoperable instrumentation channel although during this time period the relay instrumentation cannot initiate a diesel start. This allowance is based on the assumption that 4 hours is the average time required to perform channel Surveillance. The 4 hour testing allowance does not significantly reduce the availability of the EDG.

(continued)

SURVEILLANCE REQUIREMENTS (continued)

SURVEILLANCE	FREQUENCY
<p>SR 3.8.1.3 -----NOTES-----</p> <ol style="list-style-type: none"> 1. EDG loadings may include gradual loading as recommended by the manufacturer. 2. Momentary transients outside the load range do not invalidate this test. 3. This Surveillance shall be conducted on only one EDG at a time. 4. This SR shall be preceded by and immediately follow, without shutdown, a successful performance of SR 3.8.1.2 or SR 3.8.1.6. <p>-----</p> <p>Verify each EDG operates for ≥ 60 minutes at a load ≥ 2600 kW and ≤ 2850 kW.</p>	<p>31 days</p> <p><u>OR</u></p> <p>-----NOTE----- Not effective after November 23, 1997. -----</p> <p>60 days</p>
<p>SR 3.8.1.4 Verify each day tank contains ≥ 245 gal of fuel oil.</p>	<p>31 days</p>
<p>SR 3.8.1.5 Verify the fuel oil transfer system operates to automatically transfer fuel oil from the storage tank to the day tank.</p>	<p>31 days</p>

(continued)

BASES

SURVEILLANCE
REQUIREMENTS

SR 3.8.1.2 and SR 3.8.1.6 (continued)

The 31 day Frequency for SR 3.8.1.2 is consistent with the recommendations of Regulatory Guide 1.9 (Ref. 3). The 184 day Frequency for SR 3.8.1.6 is a reduction in cold testing consistent with Generic Letter 84-15 (Ref. 7). These Frequencies provide adequate assurance of EDG OPERABILITY, while minimizing testing-induced degradation.

SR 3.8.1.3

This Surveillance verifies that the EDGs are capable of synchronizing with the offsite electrical system and accepting loads approaching the design rating of the EDG. A minimum run time of 60 minutes is required to stabilize engine temperatures, while minimizing the time that the EDG is connected to the offsite source.

Although no power factor requirements are established by this SR, the EDG is normally operated at a slightly positive power factor. The power factor (reflected in reactive loading) is an operational limitation to provide optimum control over the EDGs.

The 31 day Frequency for this Surveillance is consistent with the recommendations of Regulatory Guide 1.9 (Ref. 3).

A temporary extension of the frequency has been made to indicate "31 days or 60 days" as the frequency. This temporary condition applies to a one-time performance of the surveillance on each diesel generator and will not be effective after November 23, 1997. The need for this temporary extension of the frequency became evident during replacement of the radiator on the EDGs. This activity had a minimum duration of 42 days, which was in excess of the 31 day frequency. Performance of the surveillance on one EDG with the other EDG inoperable because of the radiator replacement was considered as not the safest and most prudent course of action. A note has been added to the frequency to indicate that the 60-day frequency is not effective after November 23, 1997.

This SR is modified by four Notes. Note 1 indicates that diesel engine runs for this Surveillance may include gradual loading, as recommended by the manufacturer, so that

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ATTACHMENT E

**FLORIDA POWER CORPORATION
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DOCKET NUMBER 50-302/LICENSE NUMBER DPR-72**

**TECHNICAL SPECIFICATION
CHANGE REQUEST NOTICE 215**

REVISION BAR PAGES

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
<p>SR 3.3.8.1 -----NOTE----- When EDG LOPS instrumentation is placed in an inoperable status solely for performance of this Surveillance, entry into associated Conditions and Required Actions may be delayed as follows: (a) up to 4 hours for the degraded voltage Function, and (b) up to 4 hours for the loss of voltage Function, provided the two channels monitoring the Function for the bus are OPERABLE or tripped. ----- Perform CHANNEL FUNCTIONAL TEST.</p>	<p>31 days <u>OR</u> -----NOTE----- Not effective after November 23, 1997. ----- 60 days</p>
<p>SR 3.3.8.2 -----NOTE----- Voltage sensors may be excluded from CHANNEL CALIBRATION. ----- Perform CHANNEL CALIBRATION with setpoint Allowable Value as follows: a. Degraded voltage ≥ 3933 and ≤ 3970 V with a time delay of 5.0 seconds ± 0.5 seconds; and b. Sudden loss of voltage from full voltage to 0.0 V with a time delay of 7.8 seconds ± 0.55 seconds at 0.0 V.</p>	<p>18 months</p>

BASES

ACTIONS
(continued)

C.1

Condition C is the default Condition should Required Action A.1 or B.1 not be met within the associated Completion Time.

Required Action C.1 ensures that Required Actions for affected diesel generator inoperabilities are initiated. Depending on MODE, the Actions specified in LCO 3.8.1, "AC Sources—Operating," or LCO 3.8.2, are required to be entered immediately.

SURVEILLANCE
REQUIREMENTS

SR 3.3.8.1

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SURVEILLANCE REQUIREMENTS (continued)

SURVEILLANCE	FREQUENCY
<p>SR 3.8.1.3 -----NOTES-----</p> <ol style="list-style-type: none"> 1. EDG loadings may include gradual loading as recommended by the manufacturer. 2. Momentary transients outside the load range do not invalidate this test. 3. This Surveillance shall be conducted on only one EDG at a time. 4. This SR shall be preceded by and immediately follow, without shutdown, a successful performance of SR 3.8.1.2 or SR 3.8.1.6. <p>-----</p> <p>Verify each EDG operates for ≥ 60 minutes at a load ≥ 2600 kW and ≤ 2850 kW.</p>	<p>31 days</p> <p><u>OR</u></p> <p>-----NOTE----- Not effective after November 23, 1997. -----</p> <p>60 days</p>
<p>SR 3.8.1.4 Verify each day tank contains ≥ 245 gal of fuel oil.</p>	<p>31 days</p>
<p>SR 3.8.1.5 Verify the fuel oil transfer system operates to automatically transfer fuel oil from the storage tank to the day tank.</p>	<p>31 days</p>

(continued)

BASES

SURVEILLANCE
REQUIREMENTS

SR 3.8.1.2 and SR 3.8.1.6 (continued)

The 31 day Frequency for SR 3.8.1.2 is consistent with the recommendations of Regulatory Guide 1.9 (Ref. 3). The 184 day Frequency for SR 3.8.1.6 is a reduction in cold testing consistent with Generic Letter 84-15 (Ref. 7). These Frequencies provide adequate assurance of EDG OPERABILITY, while minimizing testing-induced degradation.

SR 3.8.1.3

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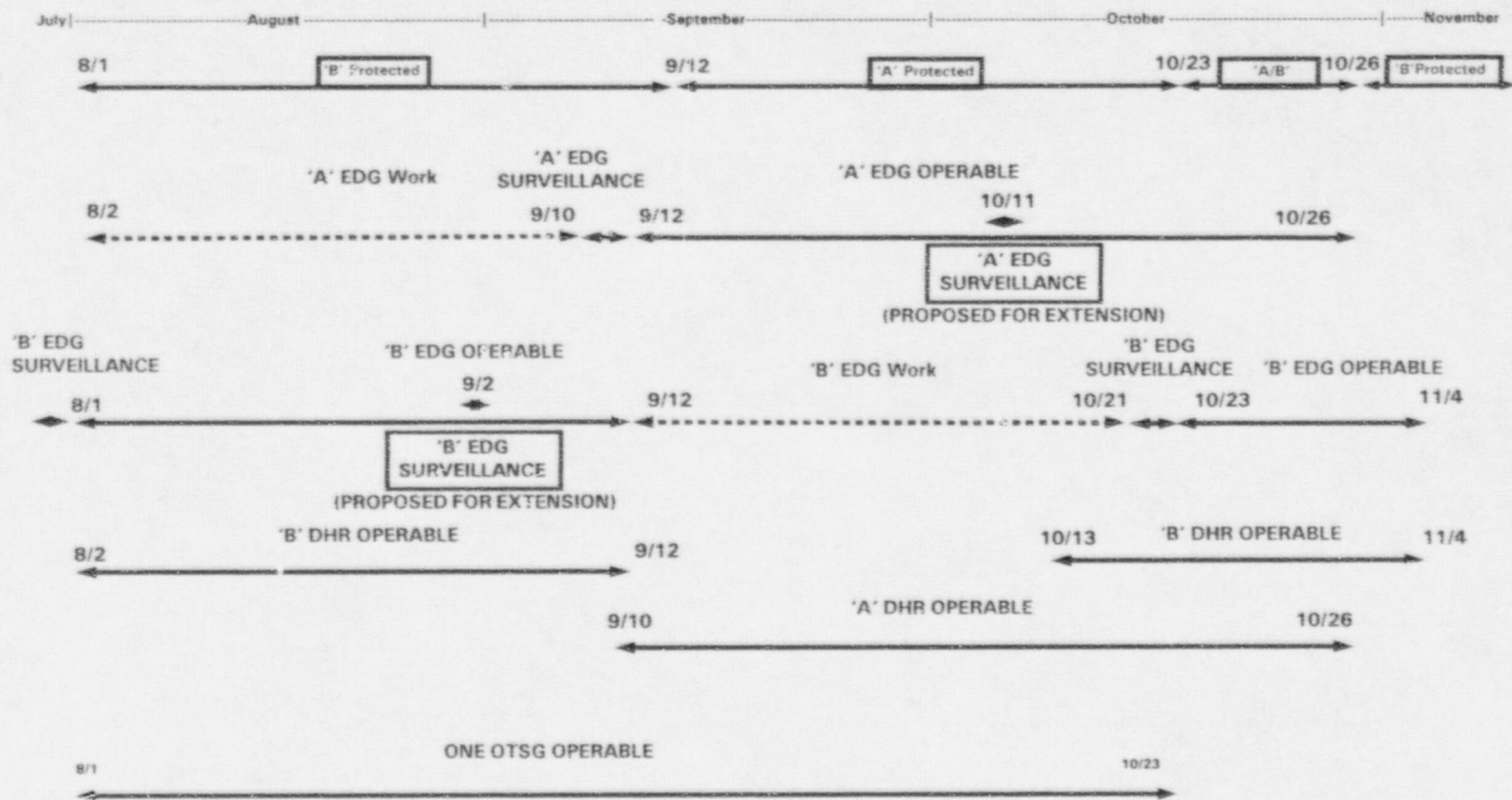
ATTACHMENT F

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**TECHNICAL SPECIFICATION
CHANGE REQUEST NOTICE 215**

SCHEDULE FOR EMERGENCY DIESEL GENERATOR OUTAGE

Emergency Diesel Generator Outage



Legend
 ←-----→
 EGD Work Window