

PROPOSED TECHNICAL SPECIFICATION CHANGES

Specifications	3.8.3.1	Markup
	3.8.3.2	Markup
Specifications	3.8.3.1	Retyped
	3.8.3.2	Retyped

ELECTRICAL POWER SYSTEMS

REVISION 1 - -

3/4.8.3 ONSITE POWER DISTRIBUTION

OPERATING

LIMITING CONDITION FOR OPERATION

3.8.3.1 The following electrical busses shall be energized in the specified manner with tie breakers open between redundant busses within the unit:

- a. Division #1 A.C. Emergency Busses consisting of:
 - 1) 4160-Volt Emergency Bus ~~X~~NB01, and ~~AND~~
 - 2) 480-Volt Emergency Busses ~~X~~NG01, ~~X~~NG03, and ~~NG05E.~~
 - 3) ~~480-VOLT EMERGENCY BUSES NG05E AND NG07.~~
- b. Division #2 A.C. Emergency Busses consisting of:
 - 1) 4160-Volt Emergency Bus ~~X~~NB02, and ~~AND~~
 - 2) 480-Volt Emergency Busses ~~X~~NG02, ~~X~~NG04, and ~~NG06E.~~
 - 3) ~~480-VOLT EMERGENCY BUSES NG06E AND NG08.~~
- c. 120-Volt A.C. Vital Bus ~~X~~NN01 energized from its associated inverter connected to D.C. Bus ~~X~~NK01,
- d. 120-Volt A.C. Vital Bus ~~X~~NN02 energized from its associated inverter connected to D.C. Bus ~~X~~NK02,
- e. 120-Volt A.C. Vital Bus ~~X~~NN03 energized from its associated inverter connected to D.C. Bus ~~X~~NK03,
- f. 120-Volt A.C. Vital Bus ~~X~~NN04 energized from its associated inverter connected to D.C. Bus ~~X~~NK04,
- g. 125-Volt D.C. Bus ~~X~~NK01 energized from Battery ~~X~~NK11 and Charger ~~X~~NK21,
- h. 125-Volt D.C. Bus ~~X~~NK02 energized from Battery ~~X~~NK12 and Charger ~~X~~NK22,
- i. 125-Volt D.C. Bus ~~X~~NK03 energized from Battery ~~X~~NK13 and Charger ~~X~~NK23, and
- j. 125-Volt D.C. Bus ~~X~~NK04 energized from Battery ~~X~~NK14 and Charger ~~X~~NK24.

APPLICABILITY: MODES 1, 2, 3, and 4.

ACTION:

INSERT A

- a. ~~With one of the required divisions of A.C. emergency busses not fully energized, reenergize the division within 8 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.~~
- b. With one A.C. vital bus either not energized from its associated inverter, or with the inverter not connected to its associated D.C. bus: (1) reenergize the A.C. vital bus within 2 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours, and (2) reenergize the A.C. vital bus from its associated inverter connected to its associated D.C. bus within 24 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

Insert A

- a. With one of the required divisions of A.C. emergency busses not fully energized due to an item 1) or 2) bus, reenergize the division within 8 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours. With one of the required divisions of A.C. emergency busses not fully energized due to an item 3) bus only, reenergize the division within 72 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

REVISION 1

ELECTRICAL POWER SYSTEMS

ONSITE POWER DISTRIBUTION

SHUTDOWN

LIMITING CONDITION FOR OPERATION

3.8.3.2 As a minimum, one of the following divisions of electrical busses shall be energized in the specified manner:

a. Division 1, consisting of:

- 1) 4160-volt Emergency Bus ~~X~~NB01, and
- 2) 480-volt Emergency Busses ~~X~~NG01, NG03, ~~and~~ NG05E, and NG07, AND
- 3) 120-volt A.C. Vital Busses ~~X~~NN01 and NN03 energized from their associated inverter connected to D.C. Busses ~~X~~NK01 and NK03, and
- 4) 125-volt D.C. Busses ~~X~~NK01 and NK03 energized from Batteries ~~X~~NK11 and NK13 and Chargers ~~X~~NK21 and NK23, or

b. Division 2, consisting of:

- 1) 4160-volt Emergency Bus ~~X~~NB02, and
- 2) 480-volt Emergency Busses ~~X~~NG02, NG04, ~~and~~ NG06E, and NG08, AND
- 3) 120-volt A.C. Vital Busses ~~X~~NN02 and NN04 energized from their associated inverter connected to D.C. Busses ~~X~~NK02 and NK04, and
- 4) 125-volt D.C. Busses ~~X~~NK02 and NK04 energized from Batteries ~~X~~NK12 and NK14 and Chargers ~~X~~NK22 and NK24.

APPLICABILITY: MODES 5 and 6.

ACTION:

Without one of the above required divisions of electrical busses energized in the required manner, immediately suspend all operations involving CORE ALTERATIONS, positive reactivity changes, or movement of irradiated fuel; initiate corrective action to energize at least one division of the required busses in the specified manner.

SURVEILLANCE REQUIREMENTS

4.8.3.2 The specified busses shall be determined energized in the required manner at least once per 7 days by verifying correct breaker alignment and indicated voltage on the busses.

ELECTRICAL POWER SYSTEMS

3/4.8.3 ONSITE POWER DISTRIBUTION

OPERATING

LIMITING CONDITION FOR OPERATION

3.8.3.1 The following electrical busses shall be energized in the specified manner with tie breakers open between redundant busses within the unit:

- a. Division #1 A.C. Emergency Busses consisting of:
 - 1) 4160-Volt Emergency Bus NB01, and
 - 2) 480-Volt Emergency Busses NG01 and NG03, and
 - 3) 480-Volt Emergency Busses NG05E and NG07.
- b. Division #2 A.C. Emergency Busses consisting of:
 - 1) 4160-Volt Emergency Bus NB02, and
 - 2) 480-Volt Emergency Busses NG02 and NG04, and
 - 3) 480-Volt Emergency Busses NG06E and NG08.
- c. 120-Volt A.C. Vital Bus NN01 energized from its associated inverter connected to D.C. Bus NK01,
- d. 120-Volt A.C. Vital Bus NN02 energized from its associated inverter connected to D.C. Bus NK02,
- e. 120-Volt A.C. Vital Bus NN03 energized from its associated inverter connected to D.C. Bus NK03,
- f. 120-Volt A.C. Vital Bus NN04 energized from its associated inverter connected to D.C. Bus NK04,
- g. 125-Volt D.C. Bus NK01 energized from Battery NK11 and Charger NK21,
- h. 125-Volt D.C. Bus NK02 energized from Battery NK12 and Charger NK22,
- i. 125-Volt D.C. Bus NK03 energized from Battery NK13 and Charger NK23, and
- j. 125-Volt D.C. Bus NK04 energized from Battery NK14 and Charger NK24.

APPLICABILITY: MODES 1, 2, 3, and 4.

ACTION:

- a. With one of the required divisions of A.C. emergency busses not fully energized due to an item 1) or 2) bus, reenergize the division within 8 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours. With one of the required divisions of A.C. emergency busses not fully energized due to an item 3) bus only, reenergize the division within 72 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- b. With one A.C. vital bus either not energized from its associated inverter, or with the inverter not connected to its associated D.C. bus: (1) reenergize the A.C. vital bus within 2 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours, and (2) reenergize the A.C. vital bus from its associated inverter connected to its associated D.C. bus within 24 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

ELECTRICAL POWER SYSTEMS

ONSITE POWER DISTRIBUTION

SHUTDOWN

LIMITING CONDITION FOR OPERATION

3.8.3.2 As a minimum, one of the following divisions of electrical busses shall be energized in the specified manner:

- a. Division 1, consisting of:
 - 1) 4160-volt Emergency Bus NB01, and
 - 2) 480-volt Emergency Busses NG01, NG03, NG05E, and NG07, and
 - 3) 120-volt A.C. Vital Busses NN01 and NN03 energized from their associated inverter connected to D.C. Busses NK01 and NK03, and
 - 4) 125-volt D.C. Busses NK01 and NK03 energized from Batteries NK11 and NK13 and Chargers NK21 and NK23, or
- b. Division 2, consisting of:
 - 1) 4160-volt Emergency Bus NB02, and
 - 2) 480-volt Emergency Busses NG02, NG04, NG06E, and NG08, and
 - 3) 120-volt A.C. Vital Busses NN02 and NN04 energized from their associated inverter connected to D.C. Busses NK02 and NK04, and
 - 4) 125-volt D.C. Busses NK02 and NK04 energized from Batteries NK12 and NK14 and Chargers NK22 and NK24.

APPLICABILITY: MODES 5 and 6.

ACTION:

Without one of the above required divisions of electrical busses energized in the required manner, immediately suspend all operations involving CORE ALTERATIONS, positive reactivity changes, or movement of irradiated fuel; initiate corrective action to energize at least one division of the required busses in the specified manner.

SURVEILLANCE REQUIREMENTS

4.8.3.2 The specified busses shall be determined energized in the required manner at least once per 7 days by verifying correct breaker alignment and indicated voltage on the busses.