

8.3 REDUNDANT POWER SUPPLY COUPLER UNIT

The Redundant Power Supply Coupler Unit (PR&E #99-76) is used whenever redundant power is desired. When two power supplies are connected to the unit, the power supply voltages are diode-coupled, with the highest of the two voltages being supplied to the console. If there is a voltage failure, redundant power is instantaneously supplied to the console, and the Remote Power Fail Indicator on the coupler unit is illuminated.

The unit should be installed adjacent to the two console power supplies, and connected with the two prefabricated cables supplied. The connections to the supplies and to the console are made to the heavy-duty barrier strips on the rear of the coupler. The cables are color-coded, and the corresponding color names are printed adjacent to the terminal strips.

NOTE: The high-current diodes used in the coupler have very low forward voltage drop and, therefore, do not add significantly to the heat dissipation of the power supply system. However, the second power supply in a redundant system does add approximately 50 watts of heat, due to the excitation current consumed by the power transformers.



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