G-IV Electric Load Limitations

The information below is supplemental to and does not take precedence over the requirements in the RFP or Attachment J-01, Technical Specifications. As defined in the Specification, there are various types of power available on the aircraft and each has a defined set of characteristics and limitations. The purpose of this document is to provide information relevant to the specific questions asked during the AOC Site Visit.

The Government expects there to be sufficient 400 Hz and 28 VDC power available for the radar system anticipated requirements, however, the availability of 60 Hz power is more constrained. Both types of the 60 Hz power (Interruptible and Uninterruptible) are distributed by two independent systems based on the relative LDSN drop locations in the aircraft, the Left Side System and the Right Side System. The power limitations defined below may influence the proposed mounting locations for radar system components.

Based on current measurements, the following 60 Hz power is available for use:

Power	Left Side System	Right Side System
60 Hz Interruptible	5 Amps	18 Amps
60 Hz Uninterruptible	11 Amps	12 Amps

** Note 1: The boiler room power drop is fed from the Left Side Systems (Interruptible and Uninterruptible).

** Note 2: Although there are 20 Amp circuit breakers which enforce limits for each type of 28 VDC and 3-phase 400 Hz (for each LDSN) power, be aware that 28 VDC and 400 Hz capacity is also constrained by the wire size going to each LDSN.