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SYSTEM POWER ANALYSIS

TRANSMISSION SYSTEM:**CALLS:****W231CT****VERTICAL RUN:***Location:* Longwood, FL*Type:* AndrewAVA5-50J 7/8 in. Foam Li*Frequency:* 94.1 MHz.*Length:* 410 feet*Attenuation:* 0.3314 dB/100-feet**STATION ERP:***Loss this section:* 1.359 dB*kW At Peak:* 0.25**HORIZONTAL RUN:***kW At Horizon:* 0.25*Type:* AndrewAVA5-50J 7/8 in. Foam Li*Length:* 30 feet*Attenuation:* 0.3314 dB/100 Feet**ANTENNA POWER GAIN AT PEAK:***Loss this section:* 0.099 dB*Numeric:* 0.690*dBd:* -1.612**TOTAL TRANSMISSION SYSTEM:****ANTENNA POWER GAIN AT HORIZON:***Total Attenuation:* 1.46 dB*Coax Efficiency:* 71.48% %*kW:* 0.690*Coax Power Rating:* 7.92 kW*dBk:* -1.612**Coax Safety Factor:* 11.94 dB ***OTHER LOSSES AND DERATING INFO:****TRANSMISSION SYSTEM LOSS:***Filter Loss* 0.60 dB*kW:* 2.158*Connector Loss* 0.1 dB*dBk:* 1.644*Antenna Height AMSL* 0 Ft*Derated for 1.3: VSWR* 6.09 kW**TRANSMITTER POWER OUTPUT:***Derated for Elevation* 6.09 kW*kW:* 0.596*Derated For Temperature* 6.09 kW*dBk:* -2.251***Safety Amount (Derate - TPO)* 5.59 kW**Date:**

17-Nov-2015

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* For both solar and altitude but not including VSWR safety margin.

** The kW Difference number should be over 0 to allow for a VSWR of 1.3:1 at the load.

This program does not check for the correct connectors nor antenna input power rating.