

K281DI Wellington, KS
LMS CP File No. 0000218828
Transmitter Power Output
&
Special Operating Conditions or Restrictions

Transmitter Power Output (TPO)

The Nicom BKG77 3 bay 5/8 wave spaced (0.625) directional antenna has a gain of 1.2.

The 515 ft. of Andrew HJ7-50 1 5/8 inch air heliax has a loss of 1.004 dB.

The 50 feet of Andrew LDF4-50 ½ inch foam coax has a loss of 0.336 dB.

The measured SWR at the transmitter is 1.268 which introduces a loss of 0.033 dB.

The combined coax and SWR total are 1.373 dB which results in an overall line efficiency of 72.9 percent.

200 watts divided by 1.2 divided by 0.729 = 228.6 watts TPO.

Special Operating Conditions or Restrictions

The permittee/licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines