

**Educational Media Foundation**

5700 West Oaks Boulevard  
Rocklin, CA 95765

*Tullahoma, TN  
WKTH*

**Transmitter Power Output Calculation**

Transmitter Power Output

Authorized ERP: 1900 watts

Shively 6813-2 Antenna Power Gain: 0.99

158 FEET RFS Cablewave 7/8-INCH Air COAX (HCA78-50) EFFICIENCY: 0.884

TPO: 2171.0315 watts

Confirmation:  $2171.0315 \times .99 \times .884 = 1899.9998$  Watts

NOTE: TPO shown as 2.17kw due to rounding and resolution on the form.