

**Educational Media Foundation**  
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*Placerville, CO*  
*KLMQ*

## **Transmitter Power Output Calculation**

The purpose of this license modification application is to specify a change in the KLMQ transmitter power output calculation only.

### Transmitter Power Output

AUTHORIZED ERP: 100 WATTS

SCALA FMO-1 ANTENNA GAIN: .5

80.4 FEET RFS 1/2-INCH FOAM COAX (LCF12-50) EFFICIENCY: 0.891

SHIVELY 2913-6 BANDPASS FILTER EFFICIENCY: .884

6' ½" JUMPER EFFICIENCY: .991

TPO: 256.2278 WATTS

CONFIRMATION:  $256.2278 \times .5 \times 0.891 \times .884 \times .991 = 99.9999$  WATTS

NOTE: TRANSMITTER POWER OUTPUT FIGURE SHOWN AS .256KW DUE TO ROUNDING AND RESOLUTION OF THE FORM.