

Educational Media Foundation
5700 West Oaks Boulevard
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Jackson, WY
KMLT

Transmitter Power Output Calculation

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

Transmitter Power Output

AUTHORIZED ERP: 300 WATTS
ERI LPX-1E-R ANTENNA GAIN: .461
65 FEET ANDREW 7/8 INCH AIR COAX (HJ5-50) EFFICIENCY: 0.947
15 FEET ANDREW 1/2" FOAM COAX (LD4-50) EFFICIENCY: .979
BANDPASS FILTER AAT-BP-IR-3-7K-N EFFICIENCY FACTOR: .898
TPO: 781.64816 WATTS

CONFIRMATION: $781.6481 \times .461 \times .947 \times .979 \times .898 = 299.9999$ WATTS

NOTE: TRANSMITTER POWER OUTPUT FIGURE SHOWN AS .782KW DUE TO ROUNDING AND RESOLUTION OF THE FORM