

Educational Media Foundation
5700 West Oaks Boulevard
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Athens, OH
W231CQ

Transmitter Power Output Calculation

The purpose of this modification to a licensed facility is to specify a change in the transmitter power output calculation only.

Transmitter Power Output

AUTHORIZED ERP: 13 WATTS

NICOM BKG77-1 ANTENNA POWER GAIN: 0.47

195.3 FEET RFS CABLEWAVE LCF12-50 1/2 INCH FOAM COAX EFFICIENCY: 0.751

SHIVELY 2914-3 BAND PASS FILTER EFFICIENCY: 0.810

10 FEET BELDON JUMPER EFFICIENCY: 0.970

TPO: 46.8758 WATTS

CONFIRMATION: $46.8758 \times 0.47 \times 0.751 \times 0.810 \times 0.970 = 12.9999$ WATTS

NOTE: TRANSMITTER POWER OUTPUT SHOWN AS .047KW DUE TO ROUNDING AND RESOLUTION OF THE FORM.