

**Educational Media Foundation**  
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*North Rock Springs, WY*  
*KLWR*

## **Transmitter Power Output Calculation**

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 1.0 KILOWATTS

NICOM BKG77-2-HW ANTENNA GAIN: 0.7

69 FEET ANDREW 7/8-INCH FOAM COAX (AVA5-50) EFFICIENCY: 0.947

AAT COMBINER EFFICIENCY: .846

13' 7/8" FOAM JUMPER EFFICIENCY: .990

TPO: 1801.1355 WATTS

CONFIRMATION:  $1801.1355 \times 0.7 \times 0.947 \times 0.846 \times 0.990 = 999.9998$  WATTS

NOTE: TPO IS SHOWN AS 1.801 KILOWATTS DUE TO ROUNDING AND RESOLUTION OF THE FORM