

**Educational Media Foundation**  
5700 West Oaks Boulevard  
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*Coarsegold, CA*  
*KAWJ*

## **Transmitter Power Output Calculation**

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: .48 KILOWATTS

2 BAY ERI SHPX-2AE-HW ANTENNA GAIN: 0.702

97 FEET ANDREW 7/8-INCH AIR COAX (HJ5-50) EFFICIENCY: 0.923

TPO: 740.8024 WATTS

CONFIRMATION:  $740.8024 \times 0.702 \times 0.923 = 479.9999$  WATTS

NOTE: TPO IS SHOWN AS .741KW DUE TO ROUNDING AND RESOLUTION OF THE FORM