

**Educational Media Foundation**  
5700 West Oaks Boulevard  
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*Lubbock, TX*  
*KKLU*

## **Transmitter Power Output Calculation**

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 25 KILOWATTS  
ERI SHPX-6AC ANTENNA GAIN: 3.306  
550 FEET MYATT 3-1/8-INCH RIGID AIR COAX EFFICIENCY: 0.894  
50' JUMPER ANDREW HJ8-50B 3" AIR COX EFFICIENCY: .984  
SHIVELY BANDPASS FILTER 2516-3A EFFICIENCY: .917  
TPO: 9,374.2211 WATTS

CONFIRMATION:  $9,374.2211 \times 3.306 \times .894 \times .984 \times .917 = 24,999.997$  WATTS

NOTE: TPO SHOWN AS 9.374 KW DUE TO ROUNDING AND THE RESOLUTION OF THE FORM.