

**Educational Media Foundation**  
5700 West Oaks Boulevard  
Rocklin, CA 95765

*Boston, MA*  
*WKVB-FM1*

## **Transmitter Power Output Calculation**

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 13 WATTS

1 BAY SHIVELY 6025 ANTENNA GAIN: 2.100

135 FEET RFS CABLEWAVE 1/2-INCH FOAM COAX (LCF12-50) EFFICIENCY: 0.809

COMBINER EFFICIENCY: 0.75

3 JUMPERS AND SURGE PROTECTOR EFFICIENCY: 0.78

TPO: 13.0803 WATTS

CONFIRMATION:  $13.0803 \times 2.100 \times 0.809 \times .75 \times .78 = 12.9999$  WATTS

NOTE: TPO IS SHOWN AS .013 KILOWATTS DUE TO ROUNDING AND RESOLUTION OF THE FORM