

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

*Pinehurst, NC*  
**WLXZ**

## **Transmitter Power Output Calculation**

Transmitter Power Output

AUTHORIZED ERP: 3.2 KILOWATTS

SHIVELY 6513-4FW ANTENNA GAIN: 4.24

271 FEET RFS Cablewave 7/8-INCH FOAM COAX EFFICIENCY: 0.811

TPO: 930.6005 WATTS

CONFIRMATION:  $930.6005 \times 4.24 \times .811 = 3200$  WATTS

NOTE: TPO IS SHOWN AS .931 KILOWATTS (100.04%) RATHER THAN .930 KILOWATTS (99.935%)