

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

*Mount Carmel, IL*  
**WYNG**

## **Transmitter Power Output Calculation**

The purpose of this license modification is to specify a change in the WYNG transmit antenna along with the subsequent transmitter power output figure. There is no change in Effective Radiated Power, Center of Radiation Above Mean Sea Level, number of antenna bays, or Geographic Coordinates. This complies with 47 CFR Sections 73.1690(c)(1) through (c)(11) as stated specifically in 73.1690(c)(1).

Transmitter Power Output

AUTHORIZED ERP: 50 KILOWATTS

5 BAY ERI SHPX-5E ANTENNA GAIN: 2.715

421.7 FEET RFS CABLEWAVE 3 INCH AIR COAX (HCA300-50) EFFICIENCY: 0.887

TPO: 20,762.351 WATTS

CONFIRMATION:  $20,762.351 \times 2.715 \times 0.887 = 49,999.996$  WATTS

NOTE: TPO IS SHOWN AS 20.762 KILOWATTS DUE TO ROUNDING AND RESOLUTION OF THE FORM