

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

*Sand Springs, TX*  
**K247AZ**

## **Transmitter Power Output Calculation**

The purpose of this license modification is to specify a change in the K247AZ transmitter power output figure. No change in Effective Radiated Power, Center of Radiation Above Mean Sea Level, or Geographic Coordinates are proposed.

### Transmitter Power Output

AUTHORIZED ERP: 140 WATTS  
RFS CPF500 1 BAY ANTENNA GAIN: .446  
134 FEET EUPEN ½ INCH FOAM COAX (EC4-50) EFFICIENCY: 0.818  
SHIVELY 2914-3 FILTER EFFICIENCY: .776  
JUMPER AND POLYPHASOR EFFICIENCY: .98  
TPO: 504.6055 WATTS

CONFIRMATION:  $504.6055 \times .446 \times .818 \times .776 \times .98 = 139.9999$  WATTS

NOTE: TPO IS SHOWN AS .505KW DUE TO ROUNDING AND RESOLUTION OF THE FORM.