

**Educational Media Foundation**  
5700 West Oaks Boulevard  
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*Fallon, NV*  
*K236AP*

## **Transmitter Power Output Calculation**

The purpose of this modification to a licensed facility is to specify a change in the transmitter power output calculation only.

### Transmitter Power Output

AUTHORIZED ERP: 100 WATTS

NICOM BKG1/P ANTENNA POWER GAIN: 1.00

49 FEET ANDREW FSJ4-50B 1/2 INCH SUPERFLEX COAX EFFICIENCY: 0.892

TELEWAVE TWPC-1005-2 BAND PASS FILTER EFFICIENCY: 0.794

4 FEET SCF12-50 COAXIAL JUMPER EFFICIENCY: 0.991

TPO: 142.4758 WATTS

CONFIRMATION:  $142.4758 \times 1.00 \times 0.892 \times 0.794 \times 0.991 = 100.0000$  WATTS

NOTE: TRANSMITTER POWER OUTPUT SHOWN AS .143KW (100.36%) RATHER THAN .142KW (99.66%) DUE TO ROUNDING AND RESOLUTION OF THE FORM.