

**Educational Media Foundation**

5700 West Oaks Boulevard  
Rocklin, CA 95765

*Palm Desert, CA*  
KHCS

**Transmitter Power Output Calculation**

The purpose of this license modification is to specify a change in the KHCS transmitter power output figure as determined by the following calculation:

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 960 WATTS

PSI 6 BAY HALF WAVED ANTENNA POWER GAIN: 1.96

30' ANDREW LDF5-50A 7/8" Foam Line EFFICIENCY: .976

AAT BP-IR-4-3K-N BANDPASS EFFICIENCY: .751

8' ½" JUMPER EFFICIENCY: .986

TPO: 677.7172 WATTS

CONFIRMATION:  $677.7172 \times 1.96 \times .976 \times .751 \times .986 = 959.9999$  WATTS

NOTE: TPO SHOWN AS .678 KW RATHER THAN 677.7172 DUE TO ROUNDING AND RESOLUTION OF THE FORM.