

**Colorado Public Radio
FM 302 Application
For KPRN Auxiliary Antenna
Exhibit 7, Calculation to Determine Transmitter Power Output**

Authorized ERP= 4.5 kW

Antenna Gain= 0.99

Feed Line Efficiency= 0.956

TPO= ERP /antenna gain /feed line efficiency

TPO= 4.500 / 0.99 / 0.956 = 4.755 kW