

TRANSMITTER POWER OUTPUT – W288DV, 105.5 MHz

THE TPO WAS CALCULATED BASED ON THE FOLLOWING:

ANTENNA POWER GAIN = 1.0 (BEXT TFC2K, 3 BAY, 0.56 WAVE SPACED, CIRCULARLY POLARIZED ANTENNA).

150' ANDREW LDF5-50A, 7/8' AIR TRANSMISSION LINE = 0.573 DB

ADDITIONAL LOSSES = COMBINER, 0.24 DB, JUMPER, 0.2 DB

TOTAL LOSSES = 1.013 DB = 79.2 % EFFICIENCY.

AUTHORIZED ERP = 0.125 KW

FINAL CALCULATION OF TPO = 0.125 KW AUTHORIZED ERP DIVIDED BY 1.0 ANTENNA POWER GAIN DIVIDED BY 79.2% LINE EFFICIENCY = 0.158 KW TRANSMITTER POWER OUTPUT.