

TRANSMITTER POWER OUTPUT

THE TPO WAS CALCULATED BASED ON THE FOLLOWING:

ANTENNA POWER GAIN = 1.85 (PSI PSIFML, 4 BAY, 0.7 WAVE SPACED, CIRCULARLY POLARIZED ANTENNA).

428' CELLFLEX LCF78-50JA, 7/8' FOAM TRANSMISSION LINE = 72% EFFICIENCY.

AUTHORIZED ERP = 0.1 KW

FINAL CALCULATION OF TPO = 0.1 KW AUTHORIZED ERP DIVIDED BY 1.85 ANTENNA POWER GAIN DIVIDED BY 72% LINE EFFICIENCY = 0.075 KW TRANSMITTER POWER OUTPUT.