

WJPT TPO Calculation

Following a fire at the transmitter facility, WJPT has rebuilt the facility, replacing some sections of transmission line and filter/ combiners for WWCN and WJPT. This has changed the TPO of the transmitter. This application is being filed pursuant to 73.1690(c)(10).

Call Letters:	WJPT (FM), Fort Meyers, Florida	
Frequency:	106.3 MHz	Channel 292
ERP:	50.000 kW	16.990 dBk
Polarization:	Circular	
Antenna RMS Gain:	2.382 Numeric	3.769 dB
Antenna Input Power:	20.991 kW	13.220 dBk
Peak Voltage:	1,449 volts	
Transmission Line Type - Vertical Run:	MACX650 6-1/8-inch, 50-ohm, MACXLine®	
Vertical Run Length:	450 feet	137.2 meters
Vertical Run Attenuation:	0.050 dB/100-feet	0.165 dB/100-meters
Transmission Line Type - Horizontal Run:	MACX650 6-1/8-inch, 50-ohm, MACXLine®	
Horizontal Run Length:	130 feet	39.6 meters
Horizontal Run Attenuation:	0.050 dB/100-feet	0.165 dB/100-meters
Line Loss:	-1.454 kW	0.291 dB
Line Efficiency:	93.521%	
Power Output from Combiner:	22.445 kW	13.511 dBk
Peak Voltage:	1,498 volts	
Combiner Losses:	-1.330 kW	0.250 dB
Transmitter Power Output:	23.775 kW	13.761 dBk