

**Transmitter TPO and ERP**

WHII-LP  
Warminster, Pa.  
106.5 MHz; FM Channel 293

**References:**

Facility ID 196893  
BNPL-20131114BLN (Original CP)  
BMPL-20150123AGH (Most recent Mod-CP)

**Antenna and Transmission System Parameters**

Transmission System Component	Manufacturer	Description	Gain (dB)	Efficiency Factor
Antenna, Single Bay.	NiCom	Model BKG-77 Circular polarized	-3.28	0.470
Transmission Line	Andrew	#LDF4-50A; 380 ft; (115.8 m); -0.683 dB/100 ft @ 106.5 MHz	-2.60	0.550
N-Male Connectors; 2 each	Generic	Type N-Male at each end of line	-0.10	0.977
Transmission System Summary			-5.98	0.253

**Transmitter Power Output (TPO) Calculation.**

ERP = 16 Watts.

Efficiency Factor = (0.470)\*(0.550)\*(0.977) = 0.253

TPO = 16/(0.253) ERP divided by Transmission System Efficiency Factor.

TPO = 63.2 Watts

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