

**Transmitter TPO and ERP**  
WYZZ-LP  
Annapolis, MD

**References:**

Facility ID: 192844  
File number: BNPL-20131112AZD

**Antenna and Transmission System Parameters**

Transmission System Component	Manufacturer	Description	Gain (dB)	Efficiency Factor
Antenna, Two Bay	Nicom	Model BKG-88 Circular polarized	-0.46	0.899
Transmission Line	Times Microwave	LMR-600, 290 foot length, 0.80 dB/100 feet at 104.7 MHz	-2.32	0.586
Coaxial Surge Arrestor	Polyphaser	IS-B50LN-C0 surge arrestor, Insertion loss of 0.1dB	-0.10	0.977
N-Male Connectors; 4 each	Generic	Type N-Male at each end of line	-0.04	0.991
Transmission System Summary			-2.92	0.511

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

ERP = 57 Watts

Transmission System Efficiency Factor = (0.899)\*(0.586)\*(0.977)\*(0.991) = 0.511

TPO = 57/(0.511)      ERP divided by Transmission System Efficiency Factor.

TPO = 112 Watts

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