

WWZT-LP (286L1)
FACILITY ID:195121
BMPL-20160725AAH
TAMPA, FL
TPO CALCULATION

(ERP): 0.048 kW

Antenna Make: SWR
Antenna Model: FMEC
No of Elements: 1
Antenna COR AGL: 43 meters AGL
Antenna COR AMSL: 48 meters AMSL
Max Input Power: 1.0 kW
Power Gain: 0.441
Log[power gain]*10 = Antenna Gain: -3.556 dB
Calculated Antenna Input Power: 0.109 kW
Transmitter Make/Model: Nautel VS300
Transmitter Rated Power: 0.3 kW

SYSTEM LOSS

| <u>Description</u> | <u>Component Make/Model</u> | <u>Length</u> | <u>Loss</u> |
|-------------------------------|-----------------------------|--------------------------|-------------|
| 1/2 Inch End Connector | Generic (1@0.02 dB each) | | -0.020 dB |
| Main Antenna Feedline (Tower) | Andrew 1/2" LDF4-50A (Foam) | (0.670 dB/100 ft) 195 ft | -1.307 dB |
| 1/2 Inch End Connector | Generic (1@0.02 dB each) | | -0.020 dB |
| PolyPhaser | PolyPhaser | | -0.100 dB |
| 1/2 Inch End Connector | Generic (1@0.02 dB each) | | -0.020 dB |
| Transmitter Jumper | Andrew 1/2" LDF4-50A (Foam) | (0.670 dB/100 ft) 10 ft | -0.067 dB |
| 1/2 Inch End Connector | Generic (1@0.02 dB each) | | -0.202 dB |

TOTAL SYSTEM GAIN/LOSS: -5.291 dB
 $1 / [10^{(dB/10)/ERP}] =$ CALCULATED TRANSMITTER POWER OUTPUT: 0.162 kW