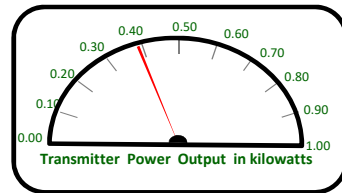
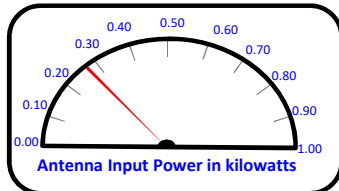


TPO Calculation Summary

Main Antenna Operation

Call letters: W298CC
City of License: Bucyrus, OH
Frequency: CH298D (107.5 MHz)
File No: BPFT-20160407ABB
Facility ID: 142508
Applicant: Franklin Communications, Inc.



Operating Effective Radiated Power (ERP): 0.250 kW

Antenna Make: Nicom USA, Inc.

Antenna Model: BKG1/P-1DA(Vertical Only)

No of Elements: One (1)

Antenna COR AGL: 76 meters AGL

Antenna COR AMSL: 392 meters AMSL

Max Input Power: 1.0 kW

Power Gain: 1.0

$\text{Log}[\text{power gain}] * 10 = \text{Antenna Gain:}$ 0.000 dBd

Calculated Antenna Input Power: 0.250 kW

Transmitter Make/Model: Nautel VS1

Transmitter Rated Power: 1.000 kW

System Loss Info:

<u>Description</u>	<u>Component Make/Model</u>	<u>Length</u>	<u>Loss</u>
7/8 Inch Flange End Connector	Generic (1@0.02 dB each)		-0.020 dBd
Main Feedline	Cablewave LCF78-50JA (7/8" Foam)	(0.358 dB/100 ft) 481 ft	-1.722 dBd
7/8 Inch Flange End Connector	Generic (1@0.02 dB each)		-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: -1.76 dBd

$1 / [10^{(-1.76/10)}] = \text{CALCULATED TRANSMITTER POWER OUTPUT:}$ 0.375 kW