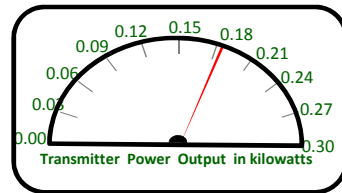
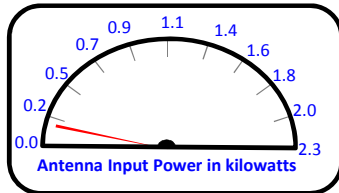


TPO Calculation Summary

Main Antenna Operation

Call letters: W256CI
City of License: Clarksville, TN
Frequency: CH256D (99.1 MHz)
File No: BMPFT-20140121HBG
Facility ID: 154860
Applicant: Edgewater Broadcasting, Inc.



Operating Effective Radiated Power (ERP): 0.250 kW

Antenna Make: PSI (Propagation Systems, Inc.)

Antenna Model: FML-3DA (0.75 wavelength)

No of Elements: Three (3)

Antenna COR AGL: 99 meters AGL

Antenna COR AMSL: 247 meters AMSL

Max Input Power: 2.3 kW

Power Gain: 1.7

$\text{Log}[\text{power gain}] * 10 = \text{Antenna Gain: } 2.30 \text{ dB}$

Calculated Antenna Input Power: 0.147 kW

Transmitter Make/Model: BW Broadcast TX300-B2

Transmitter Rated Power: 0.3 kW

System Loss Info:

Description	Component Make/Model	Length	Loss
7/8 Inch End Connector	Generic (1 @ 0.02 dB each)		-0.020 dB
Main Antenna Feedline (Tower)	Andrew 7/8" AVA5-50 (Virtual Air) (0.206 dB/100 ft)	325 ft	-0.670 dB
7/8 Inch End Connector	Generic (1 @ 0.02 dB each)		-0.020 dB
AM Isocoupler	Kintronic FMC 1.5 Isolation Transformer		-0.200 dB
7/8 Inch End Connector	Generic (1 @ 0.02 dB each)		-0.020 dB
Main Antenna Feedline (Ground)	Andrew 7/8" AVA5-50 (Virtual Air) (0.206 dB/100 ft)	40 ft	-0.082 dB
7/8 Inch End Connector	Generic (1 @ 0.02 dB each)		-0.020 dB
Transmitter Side Jumper	RG-8 (2.000 dB/100 ft)	2 ft	-0.040 dB
7/8 Inch End Connector	Generic (1 @ 0.02 dB each)		-0.020 dB

TOTAL SYSTEM GAIN/LOSS: 1.213 dB

$1 / [10^{(1.213/10)}] = \text{CALCULATED TRANSMITTER POWER OUTPUT: } 0.189 \text{ kW}$