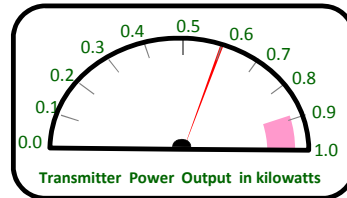
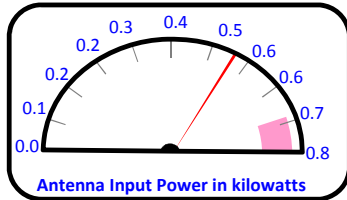


TPO Calculation Summary

Main Antenna Operation

Call letters: WYBW(FM)
City of License: Key Colony Beach, FL
Frequency: CH204A - 88.7 MHz
File No: BPED-20120216ADY
Facility ID: 175255
Applicant: Bible Broadcasting Network, Inc.



Operating Effective Radiated Power (ERP): 0.250 kW

Antenna Make: RVR USA
Antenna Model: ACPO-1
No of Elements: One (1)
Antenna COR AGL: 27 meters AGL
Antenna COR AMSL: 28 meters AMSL
Max Input Power: 0.8 kW
Power Gain: 0.46

$\text{Log}[\text{power gain}] * 10 = \text{Antenna Gain: } -3.372 \text{ dB}$

Calculated Antenna Input Power: 0.543 kW

Transmitter Make/Model: TBD

Transmitter Rated Power: 1.0 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 (part 1)	Andrew 7/8" AVA5-50 (Foam)	(0.318 dB/100 ft) 92 ft	-0.293 dB
7/8 Inch to 1/2 Inch Coupler/ Reducer	Generic (1 @ 0.02 dB each)		-0.020 dB
Main Antenna Feedline (part 2)	Andrew 1/2" LDF4-50A (Foam)	(0.621 dB/100 ft) 15 ft	-0.093 dB
1/2 Inch End Connector	Generic (1 @ 0.02 dB each)		-0.020 dB
Main Antenna Feedline (part 3)	Andrew 1/2" FSJ4-50B (Superflex)	(0.975 dB/100 ft) 6 ft	-0.059 dB
1/2 Inch End Connector	Generic (1 @ 0.02 dB each)		-0.020 dB

TOTAL SYSTEM GAIN/LOSS: -3.897 dB

$1 / [10^{(-3.897/10)}] = \text{CALCULATED TRANSMITTER POWER OUTPUT: } 0.613 \text{ kW}$

Munn-Reese, Inc.

Broadcast Engineering Consultants

Coldwater, MI 49036