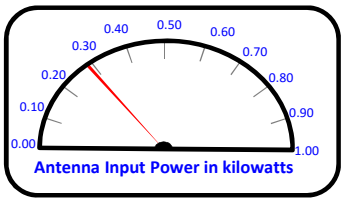
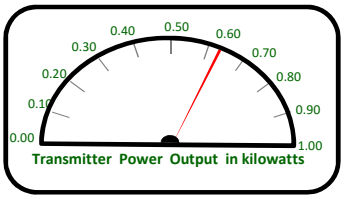
TPO Calculation Summary
Main Antenna Operation

Call letters: W293BV.C
City of License: Columbus, GA
Frequency: CH293D (106.5 MHz)
File No: BPFT-20160718AAM
Facility ID: 146650
Applicant: PMB Broadcasting, LLC





Operating Effective Radiated Power (ERP): 0.250 kW

Antenna Make: Propagaton Systems, Inc. (PSI)
Antenna Model: PSIFMLB-2C-75WS(DA)
No of Elements: Two (2)
Antenna COR AGL: 215 meters AGL
Antenna COR AMSL: 332 meters AMSL
Max Input Power: 1.0 kW
Power Gain: 0.94
Log[power gain]*10 = **Antenna Gain:** -0.269 dBd
Calculated Antenna Input Power: 0.266 kW
Transmitter Make/Model: BW CX-1000
Transmitter Rated Power: 1.000 kW

System Loss Info:

Description	Component Make/Model		Length	Loss
7/8 Inch End Connector	Generic (1@0.02 dB each)			-0.020 dBd
Main Feedline (ground)	Comscope AVA5-50FX (7/8" Foam)	(0.368 dB/100 ft)	754 ft	-2.775 dBd
7/8 Inch End Connector	Generic (1@0.02 dB each)			-0.020 dBd
Combiner	Jampro Model RCCS-103-0.8H			-0.951 dBd
7/8 to 1/2 Inch End Connector	Generic (1@0.02 dB each)			-0.020 dBd
Transmitter Side Jumper (1)	Andrews LDF4-50A (1/2" Foam)	(0.683 dB/100 ft)	10 ft	-0.068 dBd
1/2 Inch End Connector	Generic (1@0.02 dB each)			-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: -4.14 dBd
1 / [[10^[dBd/10]/ERP]] = **CALCULATED TRANSMITTER POWER OUTPUT:** 0.649 kW

Munn–Reese, Inc.
Broadcast Engineering Consultants
Coldwater, MI 49036