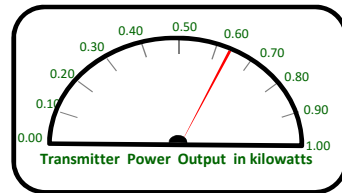
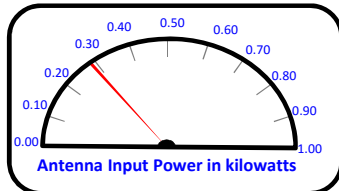


# TPO Calculation Summary

## Main Antenna Operation

**Call letters:** W288CV  
**City of License:** Columbus, GA  
**Frequency:** CH288D (105.5 MHz)  
**File No:** BLFT-20160610ABK (License Modification)  
**Facility ID:** 146642  
**Applicant:** PMB Broadcasting, LLC



**Operating Effective Radiated Power (ERP):** 0.250 kW

**Antenna Make:** Propagaton Systems, Inc. (PSI)

**Antenna Model:** PSIFMLB-2C-75WS

**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

$\text{Log}[\text{power gain}] * 10 = \text{Antenna Gain: } -0.269 \text{ dBd}$

**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		-0.996 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)	(0.679 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:** -4.19 dBd

$1 / [10^{(-4.19/10)}] = \text{CALCULATED TRANSMITTER POWER OUTPUT: } 0.656 \text{ kW}$