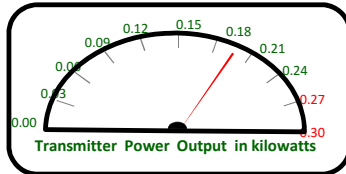
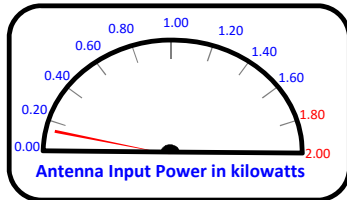


TPO Calculation Summary

Main Antenna Operation

Call letters: W221DP.CP
City of License: Columbus, GA
Frequency: CH221D (92.1 MHz)
File No: BPFT-20160129AHL
Facility ID: 151795
Applicant: PMB Broadcasting, LLC



Operating Effective Radiated Power (ERP): 0.250 kW

Antenna Make: Nicom USA, Inc.
Antenna Model: BKG77/4L(0.85WL)
No of Elements: four (4)
Antenna COR AGL: 68 meters AGL
Antenna COR AMSL: 258 meters AMSL
Max Input Power: 2.0 kW
Power Gain: 1.99

$\text{Log}[\text{power gain}] * 10 = \text{Antenna Gain: } 2.989 \text{ dBd}$

Calculated Antenna Input Power: 0.126 kW
Transmitter Make/Model: Armstrong FMX-300B
Transmitter Rated Power: 0.300 kW

System Loss Info:

<u>Description</u>	<u>Component Make/Model</u>	<u>Length</u>	<u>Loss</u>
7/8 Inch End Connector(s)	Generic (4@0.02 dB each)		-0.080 dBd
Interbay Antenna Leads	RG-213(foam) (4 leads total)	(1.900 dB/100 ft) 34 ft	-0.646 dBd
7/8 Inch End Connector(s)	Generic (4@0.02 dB each)		-0.080 dBd
Interbay Power Divide	Nicom Series BAC4L		-0.300 dBd
7/8 Inch End Connector	Generic (1@0.02 dB each)		-0.020 dBd
Main Feedline (Tower)	Andrew AVA5-50 (7/8" Virtual Air)	(0.324 dB/100 ft) 270 ft	-0.875 dBd
Type N End Connector	Generic (1@0.02 dB each)		-0.020 dBd
Type N End Connector	Generic (1@0.02 dB each)		-0.020 dBd
Jumper to Transmitter	Andrew LDF4-50A (1/2" Foam)	(0.634 dB/100 ft) 20 ft	-0.127 dBd
Type N End Connector	Generic (1@0.02 dB each)		-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: 0.80 dBd

$1 / [10^{(dB/10)/ERP}] = \text{CALCULATED TRANSMITTER POWER OUTPUT: } 0.208 \text{ kW}$