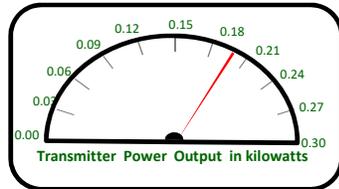
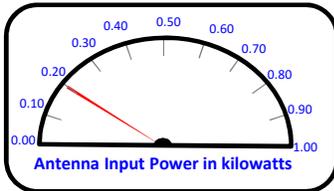


TPO Calculation Summary

Main Antenna Operation

Call letters: W288CQ
City of License: Asheville, NC
Frequency: CH288D (105.5 MHz)
File No: BMPFT-20150318AAU
Facility ID: 155786
Applicant: Saga Communications of North Carolina, LLC



Operating Effective Radiated Power (ERP): 0.250 kW

Antenna Make: Nicom USA Inc.
Antenna Model: BKY3-1DA(Slant45)
No of Elements: One (1)
Antenna COR AGL: 24 meters AGL
Antenna COR AMSL: 1029 meters AMSL
Max Input Power: 1.0 kW
Power Gain: 1.4083 (4.487 dB - 3 dB)
Log[power gain]*10 = Antenna Gain: 1.487 dB
Calculated Antenna Input Power: 0.178 kW
Transmitter Make/Model: TBD
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	Generic (2@0.02 dB each)		-0.040 dB
Main Antenna Feedline (Tower)	Andrew 7/8" LDF5-50A (Foam) (0.358 dB/100 ft)	149 ft	-0.533 dB
7/8 Inch End Connector	Generic (2@0.02 dB each)		-0.040 dB

TOTAL SYSTEM GAIN/LOSS: 0.874 dB
 $1 / [10^{(dB/10)/ERP}] =$ **CALCULATED TRANSMITTER POWER OUTPUT:** 0.204 kW