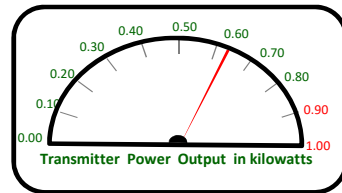
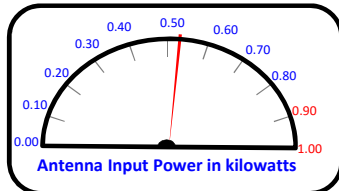


TPO Calculation Summary

Main Antenna Operation

Call letters: K235CQ.C
City of License: Shreveport, LA
Frequency: CH235D (94.9 MHz)
File No: BMPFT-20160406AAR
Facility ID: 151624
Applicant: Capital City Radio Corporation



Operating Effective Radiated Power (ERP): 0.250 kW

Antenna Make: Nicom USA, Inc. (NIC)

Antenna Model: BKG77/1L(NDA)

No of Elements: One (1)

Antenna COR AGL: 45 meters AGL

Antenna COR AMSL: 97 meters AMSL

Max Input Power: 1.0 kW

Power Gain: 0.47

$\text{Log}[\text{power gain}] * 10 = \text{Antenna Gain: } -3.279 \text{ dBd}$

Calculated Antenna Input Power: 0.532 kW

Transmitter Make/Model: Nautel VS1

Transmitter Rated Power: 1.000 kW

System Loss Info:

Description	Component Make/Model	Length	Loss
Type N Connector	Generic (1@0.02 dB each)		-0.020 dBd
Main Feedline (Tower)	Andrew AVA5-50A (7/8" Virtual Air)	(0.329 dB/100 ft) 145 ft	-0.477 dBd
Type N Connector	Generic (1@0.02 dB each)		-0.020 dBd
AM Isocoupler	Phas-Tec Custom Isocoupler		-0.200 dBd
Type N Connector	Generic (1@0.02 dB each)		-0.020 dBd
Main Feedline (Tower)	Andrew AVA5-50A (7/8" Virtual Air)	(0.329 dB/100 ft) 35 ft	-0.115 dBd
Type N Connector	Generic (1@0.02 dB each)		-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: -4.15 dBd

$1 / [10^{(-4.15/10)}] = \text{CALCULATED TRANSMITTER POWER OUTPUT: } 0.650 \text{ kW}$