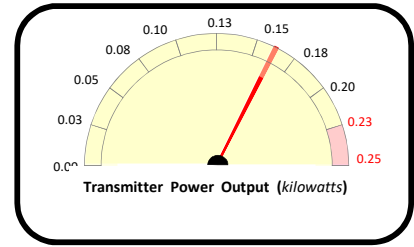


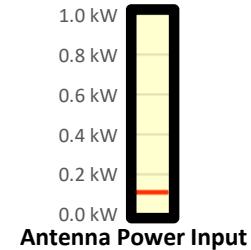
Transmitter Power Output Worksheet

Call letters: W222CV.C
 City of License: Rock Hill, SC
 Channel: CH222D (92.3 MHz)
 File No: BNPFT-20180716ABK
 Facility ID: 147790
 Applicant: Bible Broadcasting Network, Inc.



Effective Radiated Power (ERP): 0.055 kW

Antenna Make: Nicom USA, Inc. (NIC)
 Antenna Model: BKG1/P-1DA(Slant45)
 No of Elements: One (1)
 Antenna COR AGL: 61 meters AGL
 Antenna COR AMSL: 248 meters AMSL
 Max Input Power: 1.00 kW



Power Gain: 0 dBd - 3 dBd = (-3 dBd) due to (H&V) Configuration

Antenna Gain: -3.000 dBd

Calculated Antenna Input Power: 0.110 kW

Transmitter Rated Power: 0.250 kW

Transmitter Make/Model: Crown 250

Power Gain to Antenna gain (dBd) Conversion:
 $= \text{Log}[\text{power gain}] * 10$

Inventory of System / Insertion Losses

Explanation	Component Make/Model	Length	Loss
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
Jumper to Antenna	LMR-400 (or equivalent) (1.300 dB/100 ft)	3 ft	-0.039 dBd
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
1/2" Foam Feedline	Heliac (Andrew) LDF4-50A (0.661 dB/100 ft)	205 ft	-1.355 dBd
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
Lightning Protection	Polyphasor IS-B50LN-CO	n/a	-0.100 dBd
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
Jumper to Transmitter	RG-214 (or equivalent) (2.100 dB/100 ft)	5 ft	-0.105 dBd
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: -4.70 dBd
CALCULATED TRANSMITTER POWER OUTPUT: 0.162 kW
 (1 / [[10⁴ dB/10]/ERP])