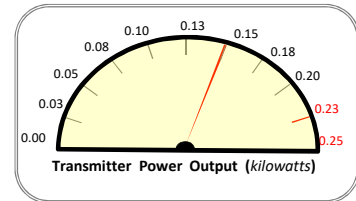


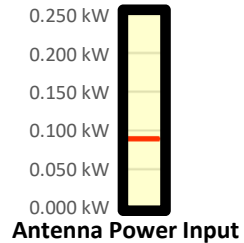
# Transmitter Power Output Worksheet

Call letters: W267AK (License Modification)  
City of License: Winchester, VA  
Channel: CH267D (101.3 MHz)  
File No: BLFT-19980319TD  
Facility ID: 84899  
Applicant: Bible Broadcasting Network, Inc.



Effective Radiated Power (ERP): 0.250 kW

Antenna Make: Kathrein-Scala USA Inc. (SCA)  
Antenna Model: HDCA-5EB/CP  
No of Elements: One (1)  
Antenna COR AGL: 30 meters AGL  
Antenna COR AMSL: 235 meters AMSL  
Max Input Power: 0.25 kW



Power Gain: 2.82

Antenna Gain: 4.5 dBd

Calculated Antenna Input Power: 0.089 kW

Transmitter Rated Power: 0.250 kW

Transmitter Make/Model: Crown 250

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

## Inventory of System / Insertion Losses

Explanation	Component Make/Model		Length	Loss
Type N End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
Foam Feedline (Ground)	LMR-400	(1.300 dB/100 ft)	184 ft	-2.392 dBd
Type N End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: 2.07 dBd  
CALCULATED TRANSMITTER POWER OUTPUT: 0.155 kW  
(1 / [[10^(dB/10)/ERP]] )