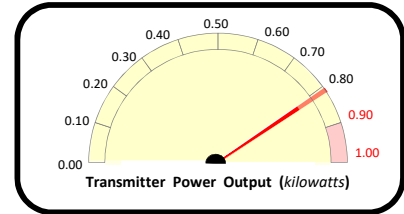


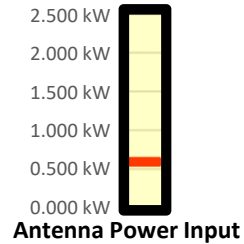
Transmitter Power Output Worksheet

Call letters: K233CO.L (License Modification)
City of License: Omaha, NE
Channel: CH233D (94.5 MHz)
File No: BLFT-20161107ABH
Facility ID: 146285
Applicant: Hickory Radio, LLC



Effective Radiated Power (ERP): 0.250 kW

Antenna Make: Shively Labs (SHI)
Antenna Model: 6832(1)
No of Elements: One (1)
Antenna COR AGL: 73 meters AGL
Antenna COR AMSL: 448 meters AMSL
Max Input Power: 2.500 kW
Power Gain: 0.45
Antenna Gain: -3.468 dBd
Calculated Antenna Input Power: 0.556 kW
Transmitter Rated Power: 1.000 kW
Transmitter Make/Model: Nautel VS1



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

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
7/8" Foam Feedline	Heliax LDF5-50B (0.354 dB/100 ft)	272 ft	-0.963 dBd
Type N End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
External Filter	Shively 2914-2 Band Pass Filter	n/a	-0.500 dBd
Type N End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
1/2" Foam Jumper	Superflex FSJ4-50B (1.038 dB/100 ft)	10 ft	-0.104 dBd
Type N End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: -5.11 dBd
CALCULATED TRANSMITTER POWER OUTPUT: 0.812 kW
 $(1 / [10^{(5.11/10)} / \text{ERP}])$