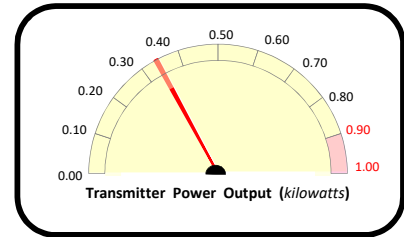


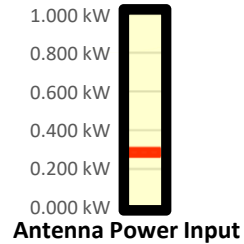
Transmitter Power Output Worksheet

Call letters: K293CX.C
City of License: Council Bluffs, IA
Channel: CH293D (106.5 MHz)
File No: BMPFT-20190513ABD
Facility ID: 153185
Applicant: Walnut Radio, LLC



Effective Radiated Power (ERP): 0.250 kW

Antenna Make: Systems With Reliability. LP (SWR)
Antenna Model: FMEC/2-0.75WS
No of Elements: Two (2)
Antenna COR AGL: 30 meters AGL
Antenna COR AMSL: 411 meters AMSL
Max Input Power: 1.000 kW
Power Gain: 0.935
Antenna Gain: -0.292 dBd
Calculated Antenna Input Power: 0.267 kW
Transmitter Rated Power: 1.000 kW
Transmitter Make/Model: Nicom NT1000



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
Main Feedline (1/2" Foam)	Andrew LDF4-50A	(0.688 dB/100 ft)	148 ft	-1.018 dBd
Typical End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: -1.35 dBd
CALCULATED TRANSMITTER POWER OUTPUT: 0.341 kW
 $(1 / [10^{(1.35/10)}] \text{ ERP})$