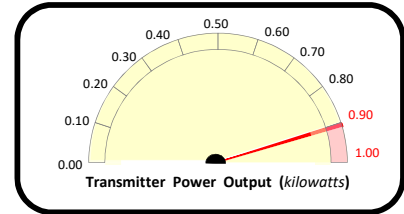


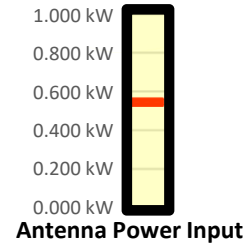
Transmitter Power Output Worksheet

Call letters: W289CJ.C
City of License: Tupelo, MS
Channel: CH289D (105.7 MHz)
File No: BNPFT-20171201ACP
Facility ID: 201112
Applicant: Cajun Radio Corporation



Effective Radiated Power (ERP): 0.250 kW

Antenna Make: Nicom USA, Inc. (NIC)
Antenna Model: BKG77/1L
No of Elements: One (1)
Antenna COR AGL: 116 meters AGL
Antenna COR AMSL: 192 meters AMSL
Max Input Power: 1.000 kW
Power Gain: 0.47
Antenna Gain: -3.279 dBd
Calculated Antenna Input Power: 0.532 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 Connector(s)	Generic (2@0.02 dB each)		n/a	-0.040 dBd
Main Feedline (7/8" Foam)	Andrew AVA5-50FX	(0.368 dB/100 ft)	375 ft	-1.380 dBd
Type N Connector(s)	Generic (2@0.02 dB each)		n/a	-0.040 dBd
Isocoupler	Phasetek P600-411(1000w) Isocoupler		n/a	-0.500 dBd
Type N Connector(s)	Generic (2@0.02 dB each)		n/a	-0.040 dBd
Main Feedline (7/8" Foam)	Andrew AVA5-50FX	(0.368 dB/100 ft)	75 ft	-0.276 dBd
Type N to DIN Coupler	Generic (1@0.02 dB each)		n/a	-0.040 dBd

TOTAL SYSTEM GAIN/LOSS: -5.60 dBd
CALCULATED TRANSMITTER POWER OUTPUT: 0.907 kW
 $(1 / [10^{(5.60/10)} \text{ dB/10/ERP}])$