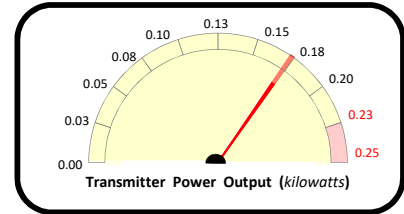


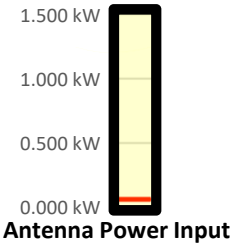
Transmitter Power Output Worksheet

Call letters: W275BH.C
City of License: Larwence, MA
Channel: CH275D (102.9 MHz)
File No: BPFT-20190404AAO
Facility ID: 155444
Applicant: Costa-Eagle Radio Ventures, LP



Effective Radiated Power (ERP): 0.215 kW

Antenna Make: Nicom USA, Inc. (NIC)
Antenna Model: BKY3/P-3DA(Slant45) (0.85WL)
No of Elements: Three (3)
Antenna COR AGL: 116 meters AGL
Antenna COR AMSL: 177 meters AMSL
Max Input Power: 1.500 kW



Power Gain: 8.5 dBd - 3 dBd = (5.5 dBd) due to (H&V) Configuration

Antenna Gain: 5.500 dBd

Calculated Antenna Input Power: 0.061 kW

Transmitter Rated Power: 0.250 kW

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(s)	Generic (3@0.05 dB each)		n/a	-0.150 dBd
Interbay Antenna Leads	RG-213(foam) (13 ft x 3 leads)	(2.000 dB/100 ft)	39 ft	-0.780 dBd
Typical End Connector(s)	Generic (3@0.05 dB each)		n/a	-0.150 dBd
Interbay Power Divide	Nicom Series BAC3N		n/a	-0.300 dBd
Typical End Connector	Generic (1@0.05 dB each)		n/a	-0.050 dBd
Jumper to Antenna	RG-213(foam)	(2.000 dB/100 ft)	4 ft	-0.080 dBd
Typical End Connector	Generic (1@0.05 dB each)		n/a	-0.050 dBd
Main Feedline (1/2" Foam)	Andrew LDF4-50A	(0.690 dB/100 ft)	410 ft	-2.829 dBd
Typical End Connector	Generic (1@0.05 dB each)		n/a	-0.050 dBd
Jumper to Transmitter	RG-213(foam)	(2.000 dB/100 ft)	4 ft	-0.080 dBd
Typical End Connector	Generic (1@0.05 dB each)		n/a	-0.050 dBd

TOTAL SYSTEM GAIN/LOSS: 0.93 dBd
CALCULATED TRANSMITTER POWER OUTPUT: 0.174 kW
 (1 / [[10^{[(dB/10)/ERP]]])}