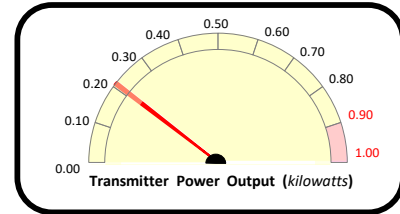


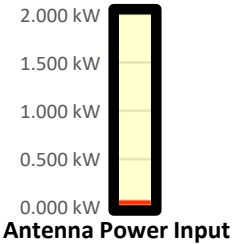
Transmitter Power Output Worksheet

Call letters: W267BA.C
City of License: Harrisonburg, VA
Channel: CH267D (101.3 MHz)
File No: BPFT-20190826AAK
Facility ID: 141357
Applicant: Tidewater Communications, LLC



Effective Radiated Power (ERP): 0.099 kW

Antenna Make: Nicom USA, Inc. (NIC)
Antenna Model: BKG1/P-4L(Slant45) (0.75WL)
No of Elements: Four (4)
Antenna COR AGL: 116 meters AGL
Antenna COR AMSL: 561 meters AMSL
Max Input Power: 2.000 kW



Power Gain: 6 dBd - 3 dBd = (3 dBd) due to (H&V) Configuration

Antenna Gain: 3.000 dBd

Calculated Antenna Input Power: 0.050 kW

Transmitter Rated Power: 1.000 kW

Transmitter Make/Model: Gates Air FAX-1K

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 (4@0.02 dB each)	n/a	-0.080 dBd
Interbay Antenna Leads	RG-213(foam) (16 ft x 4 leads) (2.000 dB/100 ft)	64 ft	-1.280 dBd
Typical End Connector(s)	Generic (4@0.02 dB each)	n/a	-0.080 dBd
Interbay Power Divide	Nicom Series BAC4L	n/a	-0.300 dBd
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
7/8" Foam Feedline (Tower)	Helix AVA5-50FX (0.368 dB/100 ft)	382 ft	-1.406 dBd
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
AM Isocoil	Kintronics Model #ISO-170-FM	n/a	-0.900 dBd
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
7/8" Foam Feedline (Tower)	Helix AVA5-50FX (0.368 dB/100 ft)	350 ft	-1.288 dBd
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
Combiner	Kintronic Model FMC4X2K2C3C	n/a	-0.750 dBd
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
Jumper to Transmitter	FSJ4-50B Superflex (1.081 dB/100 ft)	5 ft	-0.054 dBd
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: -3.26 dBd
CALCULATED TRANSMITTER POWER OUTPUT: 0.210 kW
 $(1 / [10^{(3.26/10)}] \text{ ERP})$