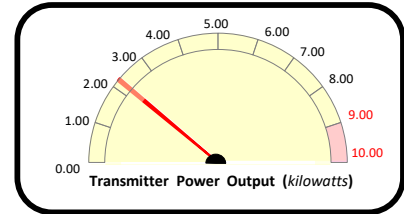


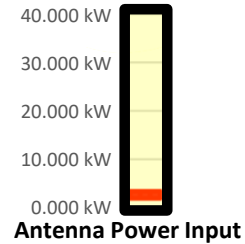
Transmitter Power Output Worksheet

Call letters: WAFX(FM).C (Auxiliary)
City of License: Suffolk, VA
Channel: CH295C (106.9 MHz)
File No: LMS-0000098372
Facility ID: 67082
Applicant: Tidewater Communications, LLC



Effective Radiated Power (ERP): 4.000 kW

Antenna Make: Electronics Research Inc. (ERI)
Antenna Model: SHPX-4AC
No of Elements: Four (4)
Antenna COR AGL: 123.4 meters AGL
Antenna COR AMSL: 126.1 meters AGL
Max Input Power: 39.000 kW
Power Gain: 2.133
Antenna Gain: 3.290 dBd
Calculated Antenna Input Power: 1.875 kW
Transmitter Rated Power: 10.000 kW
Transmitter Make/Model: GatesAir FAX 10K



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

Inventory of System / Insertion Losses

Explanation	Component Make/Model		Length	Loss
Main Feedline (3" Air)	Andrew HJ8-50B	(0.148 dB/100 ft)	347 ft	-0.514 dBd
Jumper to antenna (3" Rigid)	3 1/8" Myat Rigid	(0.097 dB/100 ft)	6 ft	-0.006 dBd
Jumper to Transmitter (3" Rigid)	3 1/8" Myat Rigid	(0.097 dB/100 ft)	63 ft	-0.061 dBd
3 Inch End Connector(s)	Generic (9@0.01 dB each)		n/a	-0.090 dBd
3 1/8 Inch Elbow(s)	Myat Part No. 301-025(3@0.02 dB each)		n/a	-0.060 dBd

TOTAL SYSTEM GAIN/LOSS: 2.56 dBd
CALCULATED TRANSMITTER POWER OUTPUT: 2.219 kW
 $(1 / [10^{(dB/10)/ERP}])$