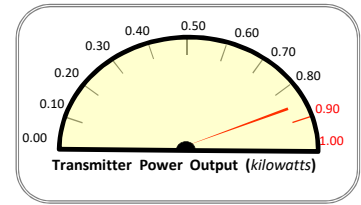


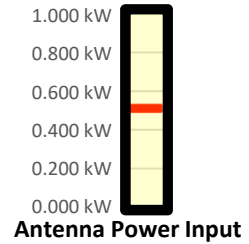
Transmitter Power Output Worksheet

Call letters: W281AU.C
 City of License: Keene, NH
 Channel: CH281D (104.1 MHz)
 File No: BPFT-20180116ABA
 Facility ID: 140906
 Applicant: Saga Communications of New England, LLC



Effective Radiated Power (ERP): 0.250 kW

Antenna Make: Nicom USA, Inc. (NIC)
 Antenna Model: BKG1/P-1DA (SLANT45)
 No of Elements: One (1)
 Antenna COR AGL: 45 meters AGL
 Antenna COR AMSL: 450 meters AMSL
 Max Input Power: 1.00 kW



Power Gain: 0 dBd - 3 dBd = (-3 dBd) due to (H&V) Configuration

Antenna Gain: -3.000 dBd

Calculated Antenna Input Power: 0.499 kW

Transmitter Rated Power: 1.000 kW

Transmitter Make/Model: GatesAir FAX 1000

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

Inventory of System / Insertion Losses

Explanation	Component Make/Model		Length	Loss
7/8" Foam Feedline	Helix	AVA5-50FX (0.368 dB/100 ft)	300 ft	-1.104 dBd
External Band-Pass Filter	Shively	Model 2916-4FB	n/a	-1.405 dBd

TOTAL SYSTEM GAIN/LOSS: -5.51 dBd
 CALCULATED TRANSMITTER POWER OUTPUT: 0.889 kW
 $(1 / [10^{(-5.51/10)} \text{ dB/10/ERP}])$