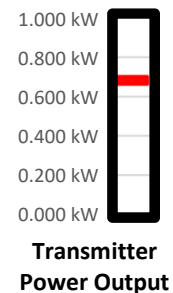
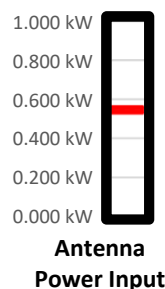


Transitter Power Output Worksheet

Call letters: W253CD.C
 City of License: East Longmeadow, MA
 Channel: CH253D (98.5 MHz)
 File No: BPFT-20170807ABM
 Facility ID: 156452
 Applicant: Saga Communications of New England, LLC

Effective Radiated Power (ERP): 0.250 kW

Antenna Make: Nicom USA, Inc. (NIC)
 Antenna Model: BKG77/1-DA
 No of Elements: One (1)
 Antenna COR AGL: 50 meters AGL
 Antenna COR AMSL: 114 meters AMSL
 Max Input Power: 1.00 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: GatesAir Fax1K



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" End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
7/8" Foam Feedline (Tower)	Cablewave LCF78-50JAA7 (0.345 dB/100 ft)	170 ft	-0.587 dBd
7/8" End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
Isocoupler	Kintronics FMC-1.5	n/a	-0.200 dBd
7/8" End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
7/8" Foam Feedline (Tower)	Cablewave LCF78-50JAA7 (0.345 dB/100 ft)	30 ft	-0.104 dBd
7/8" End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: -4.25 dBd
 CALCULATED TRANSMITTER POWER OUTPUT: 0.665 kW
 (1 / [[10⁴ dB/10]/ERP])