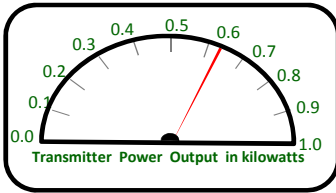
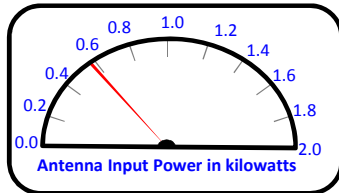


TPO Calculation Summary

Main Antenna Operation

Call letters: W245BK
 City of License: Amherst, MA
 Frequency: CH245D (96.9 MHz)
 File No: BPFT-20140721ADL
 Facility ID: 84114
 Applicant: Saga Communications of New England, LLC



Operating Effective Radiated Power (ERP): 0.250 kW

Antenna Make: Nicom USA Inc.
 Antenna Model: BKG77-1DA
 No of Elements: One (1)
 Antenna COR AGL: 59 meters AGL
 Antenna COR AMSL: 249 meters AMSL
 Max Input Power: 2.0 kW
 Power Gain: 0.47

Log[power gain]*10 = Antenna Gain: -3.279 dB

Calculated Antenna Input Power: 0.532 kW
 Transmitter Make/Model: Gates Air FAX-1K
 Transmitter Rated Power: 1.0 kW

System Loss Info:

Description	Component Make/Model	Length	Loss
1/2 Inch End Connector	Generic (1@0.02 dB each)		-0.020 dB
Main Antenna Feedline (Section 1)	Andrew 1/2" LDF4-50A (Foam) (0.650 dB/100 ft)	45 ft	-0.293 dB
1/2 inch End Connector	Generic (1@0.02 dB each)		-0.020 dB
1 5/8 inch Coupler	Generic (1@0.01 dB each)		-0.010 dB
Main Antenna Feedline (Section 2)	Andrew 1 5/8" HJ7-50A (Foam) (0.203 dB/100 ft)	175 ft	-0.355 dB
1 5/8 inch Coupler	Generic (1@0.01 dB each)		-0.010 dB
1/2 inch End Connector	Generic (1@0.02 dB each)		-0.020 dB
Main Antenna Feedline (Section 3)	Andrew 1/2" LDF4-50A (Foam) (0.650 dB/100 ft)	20 ft	-0.130 dB
1/2 Inch End Connector	Generic (1@0.02 dB each)		-0.020 dB

TOTAL SYSTEM GAIN/LOSS: -4.157 dB

$1 / [10^{(-4.157/10)}] = \text{CALCULATED TRANSMITTER POWER OUTPUT: } 0.651 \text{ kW}$