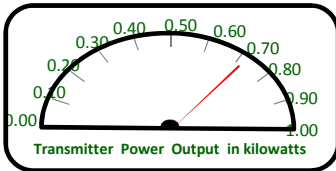
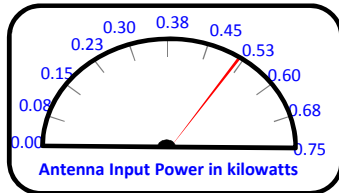


TPO Calculation Summary

Main Antenna Operation

Call letters: W244BJ
City of License: Lakeland, FL
Frequency: CH244D (96.7 MHz)
File No: BPFT-20150312AAV
Facility ID: 138530
Applicant: Hall Communications, Inc.



Operating Effective Radiated Power (ERP): 0.250 kW

Antenna Make: Propagation Systems, Inc. (PSI)

Antenna Model: Nicom BKG77/1-DA

No of Elements: One (1)

Antenna COR AGL: 106 meters AGL

Antenna COR AMSL: 167 meters AMSL

Max Input Power: 0.75 kW

Power Gain: 0.47

$\text{Log}[\text{power gain}] * 10 = \text{Antenna Gain: } -3.279 \text{ dB}$

Calculated Antenna Input Power: 0.532 kW

Transmitter Rated Power: 1.0 kW

System Loss Info:

Description	Component Make/Model	Length	Loss
Type N End Connector	Generic (1 @ 0.02 dB each)		-0.020 dB
Jumper to Transmitter	Andrew 1/2" FSJ4-50B (Superflex)	(1.020 dB/100 ft)	-0.061 dB
Type N End Connector	Generic (1 @ 0.02 dB each)		-0.020 dB
Type N to 7/8 Inch Adaptor	Generic (1 @ 0.02 dB each)		-0.020 dB
Main Antenna Feedline	Andrew 7/8" LDF5-50A (or equivalent)	(0.357 dB/100 ft)	-1.292 dB
7/8 Inch to Type N Adaptor	Generic (1 @ 0.02 dB each)		-0.020 dB
Type N End Connector	Generic (1 @ 0.02 dB each)		-0.020 dB
Jumper to Transmitter	Andrew 1/2" FSJ4-50B (Superflex)	(1.020 dB/100 ft)	-0.061 dB
Type N End Connector	Generic (1 @ 0.02 dB each)		-0.020 dB
Type N to DIN Adaptor	Generic (1 @ 0.02 dB each)		-0.020 dB

TOTAL SYSTEM GAIN/LOSS: -4.834 dB

$1 / [10^{(dB/10)/ERP}] = \text{CALCULATED TRANSMITTER POWER OUTPUT: } 0.761 \text{ kW}$