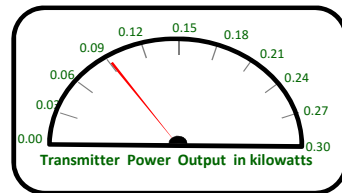
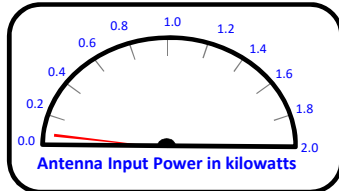


TPO Calculation Summary

Main Antenna Operation

Call letters: WPKA-LP(FM)
City of License: Apopka, FL
Frequency: CH260L1 (99.9 MHz)
File No: BLL-20151019AVX (License Modification)
Facility ID: 194816
Applicant: VJLL, Inc.



Operating Effective Radiated Power (ERP): 0.067 kW

Antenna Make: Systems With Reliability, LP (SWR)

Antenna Model: FMEC-2 PLUS

No of Elements: Two (2)

Antenna COR AGL: 28.5 meters AGL

Antenna COR AMSL: 63.5 meters AMSL

Max Input Power: 2.0 kW

Power Gain: 0.935

$\text{Log}[\text{power gain}] * 10 = \text{Antenna Gain:}$ -0.292 dBd

Calculated Antenna Input Power: 0.072 kW

Transmitter Make/Model: BW-300

Transmitter Rated Power: 0.300 kW

System Loss Info:

Description	Component Make/Model	Length	Loss
Type N End Connector	Generic (1@0.02 dB each)		-0.020 dBd
Antenna Side Jumper	LMR-400 (Foam) (1.200 dB/100 ft)	3 ft	-0.036 dBd
Type N End Connector	Generic (2@0.02 dB each)		-0.040 dBd
Main Feedline	Andrew LDF5-50A (7/8" Foam) (0.363 dB/100 ft)	120 ft	-0.436 dBd
Type N End Connector	Generic (2@0.02 dB each)		-0.040 dBd
Lightning Arrestor	Polyphaser Model IS-50LN-CO (or equivalent)		-0.100 dBd
Type N End Connector	Generic (2@0.02 dB each)		-0.040 dBd
Transmitter Side Jumper	LMR-400 (Foam) (1.200 dB/100 ft)	3 ft	-0.036 dBd
Type N End Connector	Generic (1@0.02 dB each)		-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: -1.06 dBd

$1 / [10^{(-1.06/10)}] = \text{CALCULATED TRANSMITTER POWER OUTPUT:}$ 0.086 kW