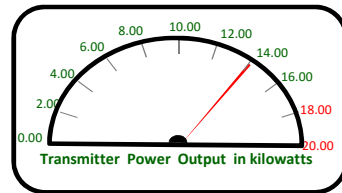
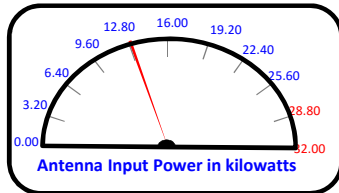


TPO Calculation Summary

Main Antenna Operation

Call letters: KMGO(FM) (proposed)
City of License: Centerville, IA
Frequency: CH254C1 (98.7 MHz)
File No: pending application
Facility ID: 35126
Applicant: KMGO, Inc.



Operating Effective Radiated Power (ERP): 19.500 kW

Antenna Make: Electronics Research Inc. (ERI)

Antenna Model: SHPX-3AE

No of Elements: Three (3)

Antenna COR AGL: 111 meters AGL

Antenna COR AMSL: 415 meters AMSL

Max Input Power: 32.0 kW

Power Gain: 1.5588

$\text{Log}[\text{power gain}] * 10 = \text{Antenna Gain:}$ 1.928 dBd

Calculated Antenna Input Power: 12.510 kW

Transmitter Make/Model: Continental 813G

Transmitter Rated Power: 20.000 kW

System Loss Info:

<u>Description</u>	<u>Component Make/Model</u>	<u>Length</u>	<u>Loss</u>
3 Inch End Connector	Generic (1@0.02 dB each)		-0.020 dBd
Main Feedline (Tower)	Andrew HJ8-50B (3" Air)	(0.143 dB/100 ft) 425 ft	-0.608 dBd
3 Inch End Connector	Generic (1@0.02 dB each)		-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: 1.28 dBd

$1 / [10^{(1.28/10)} / \text{ERP}] = \text{CALCULATED TRANSMITTER POWER OUTPUT:}$ 14.522 kW