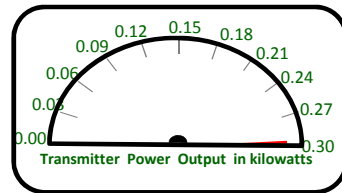
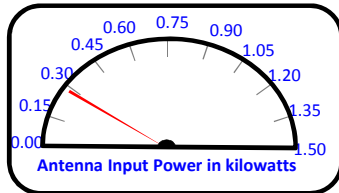


TPO Calculation Summary

Main Antenna Operation

Call letters: W231BS
City of License: Huntington, WV
Frequency: CH231D (94.1 MHz)
File No: BPFT-20130207ABC
Facility ID: 147849
Applicant: Fifth Avenue Broadcasting Company, Inc.



Operating Effective Radiated Power (ERP): 0.250 kW

Antenna Make: Shively Labs, Inc.

Antenna Model: 6812B-2

No of Elements: Two (2)

Antenna COR AGL: 58 meters AGL

Antenna COR AMSL: 231 meters AMSL

Max Input Power: 1.5 kW

Power Gain: 0.99

$\text{Log}[\text{power gain}] * 10 = \text{Antenna Gain:}$ -0.044 dB

Calculated Antenna Input Power: 0.253 kW

Transmitter Make/Model: Crown Model 300

Transmitter Rated Power: 0.3 kW

System Loss Info:

Description	Component Make/Model	Length	Loss
7/8 Inch End Connector	Generic (1 @ 0.02 dB each)		-0.020 dB
Main Antenna Feedline (Tower)	Eupen 7/8" EC5-50A (Foam)	(0.347 dB/100 ft) 190 ft	-0.659 dB
7/8 Inch End Connector	Generic (1 @ 0.02 dB each)		-0.020 dB

TOTAL SYSTEM GAIN/LOSS: -0.743 dB

$1 / [10^{(-0.743/10)}] = \text{CALCULATED TRANSMITTER POWER OUTPUT:}$ 0.297 kW