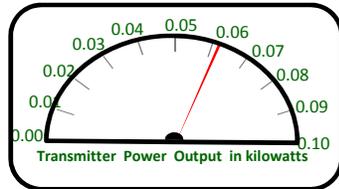
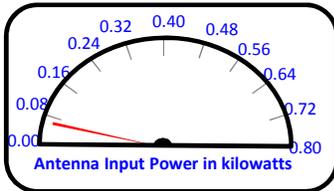


TPO Calculation Summary

Main Antenna Operation

Call letters: KJSA(FM)-STA
City of License: Jonesboro, AR
Frequency: CH209C3 (89.7 MHz)
File No: STA Pending
Facility ID: 176248
Applicant: Jonesboro Seventh Day Adventist Church



Operating Effective Radiated Power (ERP): 0.025 kW

Antenna Make: R.V.R.
Antenna Model: ACPO-1
No of Elements: One (1)

Antenna COR AGL: 14.6 meters AGL
Antenna COR AMSL: 110.0 meters AMSL

Max Input Power: 0.8 kW
Power Gain: 0.46

$\text{Log}[\text{power gain}] * 10 = \text{Antenna Gain: } -3.372 \text{ dB}$

Calculated Antenna Input Power: 0.054 kW

Transmitter Make/Model: T.B.D.

Transmitter Rated Power: 0.1 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 (Tower) | Andrew 1/2" LDF4-50A (Foam) (0.625 dB/100 ft) | 100 ft | -0.625 dB |
| 1/2 Inch End Connector | Generic (1@0.02 dB each) | | -0.020 dB |

TOTAL SYSTEM GAIN/LOSS: -4.037 dB

$1 / [10^{(-4.037/10)}] = \text{CALCULATED TRANSMITTER POWER OUTPUT: } 0.063 \text{ kW}$