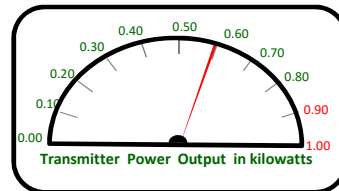
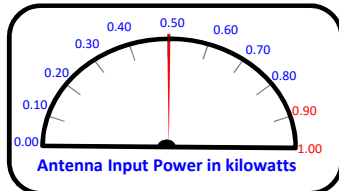


# TPO Calculation Summary

## Main Antenna Operation

**Call letters:** K252FG.C  
**City of License:** Page, AZ  
**Frequency:** CH252D (98.3 MHz)  
**File No:** BPFT-20160825AAN  
**Facility ID:** 141431  
**Applicant:** Lake Powell Communications, Inc.



**Operating Effective Radiated Power (ERP):** 0.250 kW

**Antenna Make:** Nicom USA, Inc.

**Antenna Model:** BKG1/P-1DA(Slant45)

**No of Elements:** One (1)

**Antenna COR AGL:** 17 meters AGL

**Antenna COR AMSL:** 1737 meters AMSL

**Max Input Power:** 1.0 kW

**Power Gain:** 0.5 (0 dBd - 3.0 dBd due to H&V Configuration)

**Log[power gain]\*10 = Antenna Gain:** -3.0 dBd

**Calculated Antenna Input Power:** 0.500 kW

**Transmitter Make/Model:** RVR TEX1002LCD

**Transmitter Rated Power:** 1.000 kW

### System Loss Info:

Description	Component Make/Model	Length	Loss
Type N Connector	Generic (1@0.05 dB each)		-0.050 dBd
Main Feedline (Tower)	Andrew LDF4-50A (1/2" Foam)	55 ft	-0.360 dBd
Main Feedline (Ground)	Andrew LDF4-50A (1/2" Foam)	60 ft	-0.393 dBd
3 Inch End Connector	Generic (1@0.05 dB each)		-0.050 dBd

**TOTAL SYSTEM GAIN/LOSS:** -3.86 dBd

**1 / [[10^(dB/10)/ERP]] = CALCULATED TRANSMITTER POWER OUTPUT:** 0.609 kW