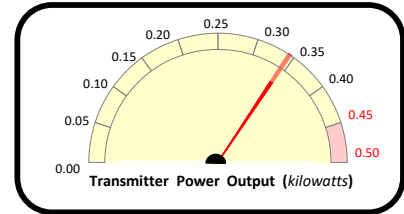


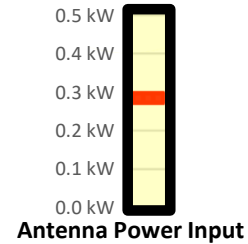
# Transmitter Power Output Worksheet

**Call letters:** W202AW.L  
**City of License:** Sandusky, OH  
**Channel:** CH202D (88.3 MHz)  
**File No:** BLFT-19991228ABN  
**Facility ID:** 77850  
**Applicant:** Bible Broadcasting Network, Inc.



**Effective Radiated Power (ERP):** 0.120 kW

**Antenna Make:** Systems With Reliability  
**Antenna Model:** FMEC/1  
**No of Elements:** One (1)  
**Antenna COR AGL:** 30 meters AGL  
**Antenna COR AMSL:** 215 meters AMSL  
**Max Input Power:** 0.500 kW



**Power Gain:** 0.441  
**Antenna Gain:** -3.556 dBd  
**Calculated Antenna Input Power:** 0.272 kW  
**Transmitter Rated Power:** 0.500 kW  
**Transmitter Make/Model:** Crown 500

**Power Gain to Antenna gain (dBd) Conversion:**  
 $=\text{Log}[\text{power gain}] * 10$

## Inventory of System / Insertion Losses

Explanation	Component Make/Model		Length	Loss
Typical End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
Main Feedline (1/2" Foam)	Cablewave LCF12-50J	(0.658 dB/100 ft)	98 ft	-0.645 dBd
Typical End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
Lightning Arrestor	Polyphaser IS-B50 Series (or equivalent)		n/a	-0.100 dBd
Typical End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
Jumper to Transmitter	Belden 8267 (RG-213)	(1.900 dB/100 ft)	10 ft	-0.190 dBd
Typical End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd

**TOTAL SYSTEM GAIN/LOSS:** -4.57 dBd  
**CALCULATED TRANSMITTER POWER OUTPUT:** 0.344 kW  
 $(1 / [10^{(4.57/10)}] / \text{ERP})$