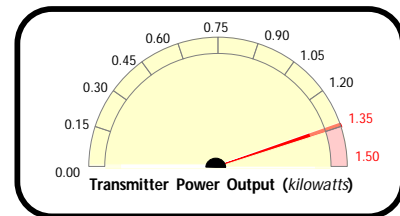


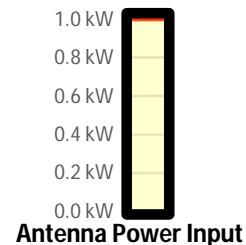
Transmitter Power Output Worksheet

Call letters: KYBF(FM).C
 City of License: Scottsbluff, NE
 Channel: CH211A (90.1 MHz)
 File No: LMS-0000167281
 Facility ID: 762137
 Applicant: Bible Broadcasting Network, Inc.



Effective Radiated Power (ERP): 0.920 kW

Antenna Make: Nicom USA, Inc.
 Antenna Model: BKG88-2L(NDA)
 No of Elements: Two (2)
 Antenna COR AGL: 23 meters AGL
 Antenna COR AMSL: 1310 meters AMSL
 Max Input Power: 1.000 kW
 Power Gain: 0.92
 Antenna Gain: -0.362 dBd
 Calculated Antenna Input Power: 1.000 kW
 Transmitter Rated Power: 1.500 kW
 Transmitter Make/Model: Nautel VX1.5



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

Inventory of System / Insertion Losses

Explanation	Component Make/Model	Length	Loss
Type N End Connector(s)	Generic (2@0.02 dB each)	n/a	-0.040 dBd
Interbay Antenna Leads	RG-213(foam)(10 ft x 2 leads) (2.000 dB/100 ft)	20 ft	-0.400 dBd
Typical 7/8" EIS Flange Connector(s)	Generic (2@0.02 dB each)	n/a	-0.040 dBd
Interbay Power Divide	Nicom Series BAC2N	n/a	-0.300 dBd
Typical 7/8" EIS Flange Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
Main Feedline (7/8" foam)	Cablewave (RFS) LCF78-50JA	85	-0.301 dBd
Typical 7/8" EIS Flange Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
Shortening Stub	Xenirad model XEN-078FL	n/a	-0.020 dBd
Wattmeter Line Section	Bird BDME Line Section Model BPME7DD-VLP	n/a	-0.050 dBd
Typical 7/8" EIS Flange Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
Jumper to Transmitter (1/2" foam)	Andrews LDF4-50A (0.661 dB/100 ft)	6 ft	-0.040 dBd
Typical 7/8" EIS Flange Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
Typical 7/16" DIN Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: -1.65 dBd
 CALCULATED TRANSMITTER POWER OUTPUT: 1.346 kW
 $(1 / [10^{(1.65/10)} \text{ dB/10/ERP}])$