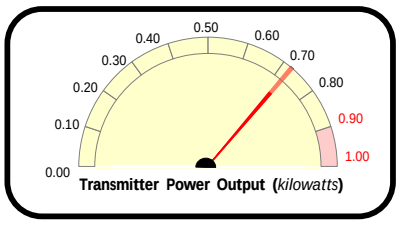
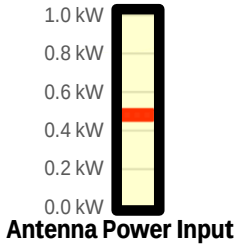
Transmitter Power Output Worksheet

Call letters: WYHN(FM).C
City of License: Washington, IN
Channel: CH211A (90.1 MHz)
File No: LMS-0000167283
Facility ID: 762135
Applicant: Bible Broadcasting Network, Inc.



Effective Radiated Power (ERP): 0.420 kW

Antenna Make: Nicom USA, Inc.
Antenna Model: BKG88-2L
No of Elements: Two (2)
Antenna COR AGL: 43 meters AGL
Antenna COR AMSL: 185 meters AMSL
Max Input Power: 1.000 kW
Power Gain: 0.92
Antenna Gain: -0.362 dBd
Calculated Antenna Input Power: 0.457 kW
Transmitter Rated Power: 1.000 kW
Transmitter Make/Model: Nautel VS1



Power Gain to Antenna gain (dBd) Conversion:
=Log[power gain]*10

Inventory of System / Insertion Losses

Explanation	Component Make/Model		Length	Loss
Typical Type N 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 Type N 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 Type N Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
Main Feedline	Andrew LDF4-50A	(0.661 dB/100 ft)	169 ft	-1.117 dBd
Typical Type N Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
Wattmeter Line Section	Bird BDME Line Section Model BPME7BB-VLP		n/a	-0.050 dBd
Typical Flange Connector	L4E78 - 7/8 EIA Flange Connector (1@0.02 dB each)		n/a	-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: -2.37 dBd
CALCULATED TRANSMITTER POWER OUTPUT: **0.725 kW**
(1 / [[10^[dB/10]/ERP]])

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