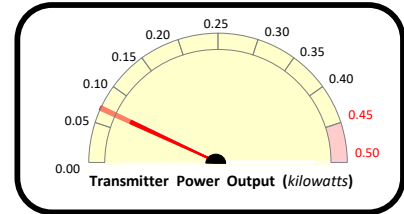


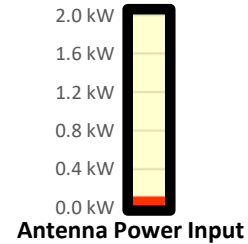
Transmitter Power Output Worksheet

Call letters: K245CC.P
City of License: Olathe, KS
Channel: CH245D (96.9 MHz)
File No: LMS-0000196142
Facility ID: 140359
Applicant: Bott Broadcasting Company



Effective Radiated Power (ERP): 0.250 kW

Antenna Make: Nicom USA, Inc.
Antenna Model: BLK/8-1DA
No of Elements: One (1)
Antenna COR AGL: 131.0 meters AGL
Antenna COR AMSL: 449.8 meters AMSL
Max Input Power: 2.000 kW
Power Gain: 5.62
Antenna Gain: 7.50 dBd
Calculated Antenna Input Power: 0.044 kW
Transmitter Rated Power: 0.500 kW
Transmitter Make/Model: Crown FM-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 (7/8" Foam)	Andrew AVA5-50FX	(0.354 dB/100 ft)	459 ft	-1.625 dBd
Typical End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
Jumper Segment #1	Andrew FSJ4-50B "Superflex"	(1.038 dB/100 ft)	6 ft	-0.062 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 Segment #2	Andrew FSJ4-50B "Superflex"	(1.038 dB/100 ft)	3 ft	-0.031 dBd
Typical End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: 5.58 dBd
CALCULATED TRANSMITTER POWER OUTPUT: 0.069 kW
 $(1 / [10^{(5.58/10)} / \text{ERP}])$