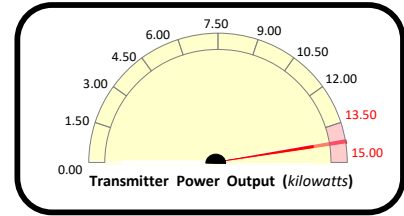


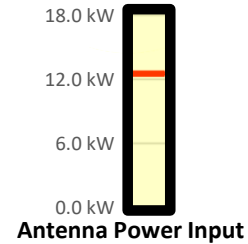
Transmitter Power Output Worksheet

Call letters: KAOW(FM) .C
City of License: Fort Smith, AR
Channel: CH205C2 (88.9 MHz)
File No: LMS(CP)-0000120191
Facility ID: 1617
Applicant: Community Broadcasting, Inc.



Effective Radiated Power (ERP): 26.500 kW

Antenna Make: Electronics Research, Inc. (ERI)
Antenna Model: MPX-4C
No of Elements: Four (4)
Antenna COR AGL: 67 meters AGL
Antenna COR AMSL: 307 meters AMSL
Max Input Power: 18.000 kW



Power Gain: 2.133
Antenna Gain: 3.290 dBd
Calculated Antenna Input Power: 12.424 kW
Transmitter Rated Power: 15.000 kW
Transmitter Make/Model: GatesAir FAX15

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@0.01 dB each)	n/a	-0.010 dBd
3" to 1 5/8" Reducer	ERI Model RLA-350	n/a	-0.050 dBd
Typical End Connector	Generic (1@0.01 dB each)	n/a	-0.010 dBd
Main Feedline (1 5/8" Air)	Andrew HJ7-50A (0.203 dB/100 ft)	252 ft	-0.512 dBd
Typical End Connector	Generic (1@0.01 dB each)	n/a	-0.010 dBd

TOTAL SYSTEM GAIN/LOSS: 2.70 dBd
CALCULATED TRANSMITTER POWER OUTPUT: 14.237 kW
 $(1 / [10^{(2.70/10)}] \text{ ERP})$