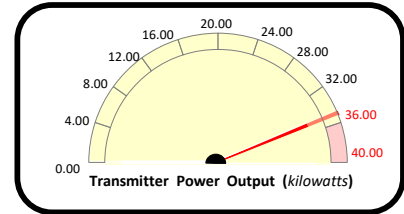


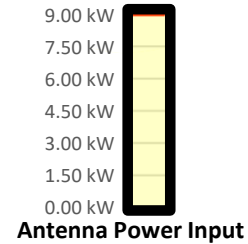
Transmitter Power Output Worksheet

Call letters: WOGK(FM) (License Modification)
City of License: Ocala, FL
Channel: CH229C0 (93.7 MHz)
File No: BLH-19870915KA
Facility ID: 49962
Applicant: Saga South Communications, LLC



Effective Radiated Power (ERP): 100.000 kW

Antenna Make: Jampro Antennas, Inc. (JAM)
Antenna Model: JHPC-8
No of Elements: Eight (8)
Antenna COR AGL: 401.1 meters AGL
Antenna COR AMSL: 426.1 meters AGL
Max Input Power: 40.000 kW
Power Gain: 4.3
Antenna Gain: 6.335 dBd
Calculated Antenna Input Power: 23.256 kW
Transmitter Rated Power: 40.000 kW
Transmitter Make/Model: Gates Air Flexiva 40kW



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
Feedline (3" Rigid)	3 1/8" Myat Rigid (0.093 dB/100 ft)	36 ft	-0.033 dBd
Typical End Connector(s)	Generic (2@0.02 dB each)	n/a	-0.040 dBd
Feedline (4" Air)	Cablewave HCA400-50J (0.110 dB/100 ft)	1324 ft	-1.456 dBd
3 1/8 Inch Elbow(s)	Myat Part No. 301-025(2@0.02 dB each)	n/a	-0.040 dBd
3 Port Patch Panel	Myat Part No. 301-138-X Series Panel	n/a	-0.100 dBd
3 1/8 Inch Elbow(s)	Myat Part No. 301-025(2@0.02 dB each)	n/a	-0.040 dBd
Feedline (3" Rigid)	3 1/8" Myat Rigid (0.093 dB/100 ft)	11 ft	-0.010 dBd
3 1/8 Inch Elbow(s)	Myat Part No. 301-025(2@0.02 dB each)	n/a	-0.040 dBd

TOTAL SYSTEM GAIN/LOSS: 4.55 dBd
CALCULATED TRANSMITTER POWER OUTPUT: 35.038 kW
 $(1 / [10^{(4.55/10)} / \text{ERP}])$