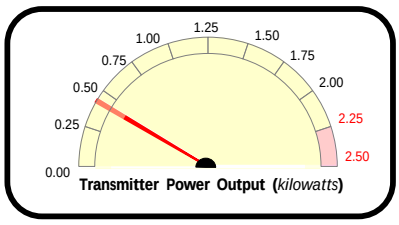
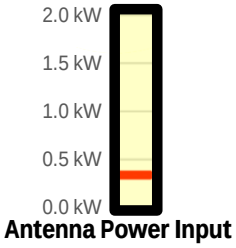
Transmitter Power Output Worksheet

Call letters: WQTL(FM).C (Auxiliary)
City of License: Tallahassee, FL
Channel: CH291A (106.1 MHz)
File No: LMS-0000202262
Facility ID: 31792
Applicant: Adams Radio of Tallahassee, LLC



Effective Radiated Power (ERP): 0.300 kW

Antenna Make: Systems with Reliability (SWR)
Antenna Model: FMFB-2
No of Elements: Two (2)
Antenna COR AGL: 91.4 meters AGL
Antenna COR AMSL: 156.9 meters AMSL
Max Input Power: 2.000 kW
Power Gain: 0.959
Antenna Gain: -0.182 dBd
Calculated Antenna Input Power: 0.313 kW
Transmitter Rated Power: 2.500 kW
Transmitter Make/Model: Nautel VS2.5



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

Inventory of System / Insertion Losses

Explanation	Component Make/Model	Length	Loss
Typical DIN End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
Main Feedline (7/8" Foam)	Cablewave(RFS) LCF78-50JA (0.368 dB/100 ft)	350 ft	-1.288 dBd
Typical DIN End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: -1.51 dBd
CALCULATED TRANSMITTER POWER OUTPUT: **0.425 kW**
(1 / [[10^[dB/10]/ERP]])

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