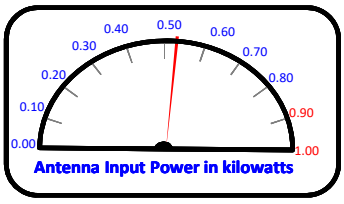
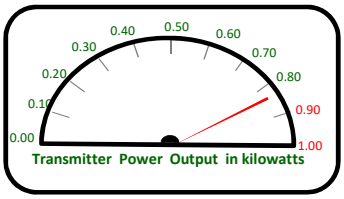
TPO Calculation Summary
Main Antenna Operation

Call letters: W237AT.C
City of License: Richmond, IN
Frequency: CH237D (95.3 MHz)
File No: BPFT-20160922ABZ
Facility ID: 65509
Applicant: Brewer Broadcasting Corp.





Operating Effective Radiated Power (ERP): 0.250 kW

Antenna Make: Nicom USA, Inc. (NIC)
Antenna Model: BKG77/1L-DA
No of Elements: One (1)
Antenna COR AGL: 114 meters AGL
Antenna COR AMSL: 446 meters AMSL
Max Input Power: 1.00 kW
Power Gain: 0.47
Log[power gain]*10 = **Antenna Gain:** -3.279 dBd
Calculated Antenna Input Power: 0.532 kW
Transmitter Make/Model: Nautel VS-1
Transmitter Rated Power: 1.000 kW

System Loss Info:

Description	Component Make/Model		Length	Loss
Type N End Connector	Generic (1@0.02 dB each)			-0.020 dBd
Main Feedline (Tower)	Andrew LDF5-50A (7/8" Foam)	(0.357 dB/100 ft)	384 ft	-1.371 dBd
Type N Coupler	Generic (1@0.02 dB each)			-0.020 dBd
Transmitter Side Jumper (1)	Andrew FSJ4-50B (1/2" Superflex)	(1.020 dB/100 ft)	10 ft	-0.102 dBd
Type N End Connector	Generic (1@0.02 dB each)			-0.020 dBd
External Bandpass Filter	Microwave Filter Company Model 9507-95.3/2/0.2			-0.450 dBd
Type N End Connector	Generic (1@0.02 dB each)			-0.020 dBd
Transmitter Side Jumper (2)	Andrew FSJ4-50B (1/2" Superflex)	(1.020 dB/100 ft)	3 ft	-0.031 dBd
Type N to DIN Adapter	Generic (1@0.02 dB each)			-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: -5.33 dBd
1 / [[10^[dB/10]/ERP]] = **CALCULATED TRANSMITTER POWER OUTPUT:** 0.853 kW

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