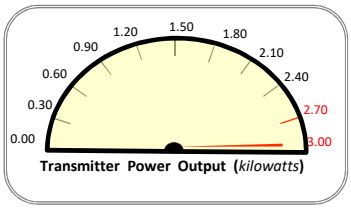
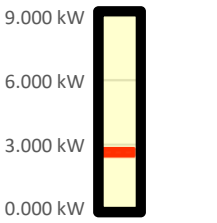
Transmitter Power Output Worksheet

Call letters: WLLT(FM) (Auxiliary)
City of License: Polo, IL
Channel: CH232A (94.3 MHz)
File No: BXPH-20180712AAG
Facility ID: 59235
Applicant: Sauk Valley Broadcasting Company



Effective Radiated Power (ERP): 1.150 kW

Antenna Make: Electronics Research Inc. (ERI)
Antenna Model: LPX-1E
No of Elements: One (1)
Antenna COR AGL: 107 meters AGL
Antenna COR AMSL: 358 meters AMSL
Max Input Power: 9.00 kW
Power Gain: 0.461
Antenna Gain: -3.363 dBd
Calculated Antenna Input Power: 2.495 kW
Transmitter Rated Power: 3.000 kW
Transmitter Make/Model: BE STX-OP-3



Antenna Power Input

Power Gain to Antenna gain (dBd) Conversion:
=Log[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
1 5/8" Air Feedline (Tower)	Heliax HJ7-50A	(0.197 dB/100 ft)	350 ft	-0.690 dBd
1 5/8" Air Feedline (Ground)	Heliax HJ7-50A	(0.197 dB/100 ft)	30 ft	-0.059 dBd
Typical End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: -4.15 dBd
CALCULATED TRANSMITTER POWER OUTPUT: **2.991 kW**
(1 / [[10^[dB/10]/ERP]])

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