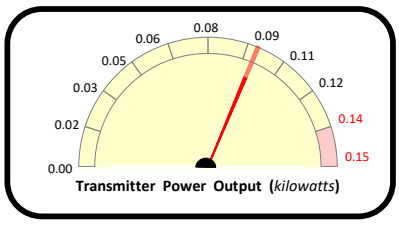
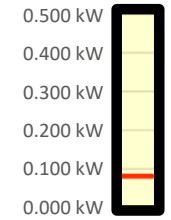
Transmitter Power Output Worksheet

Call letters: KEUR-LP(FM).C
City of License: Eureka, MT
Channel: CH202L1 (88.3 MHz)
File No: BPL-20190821AAF
Facility ID: 134900
Applicant: Eureka Adventist Radio, Inc.



Effective Radiated Power (ERP): 0.100 kW

Antenna Make: Telewave Inc.
Antenna Model: ANT90D-1 (Vertical Only)
No of Elements: One (1)
Antenna COR AGL: 10 meters AGL
Antenna COR AMSL: 842 meters AMSL
Max Input Power: 0.500 kW
Power Gain: 1.25
Antenna Gain: 1.0 dBd
Calculated Antenna Input Power: 0.080 kW
Transmitter Rated Power: 0.150 kW
Transmitter Make/Model: Nicom NT-150



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
Main Feedline (1/2" Foam)	Andrew LDF4-50A	(0.661 dB/100 ft)	100 ft	-0.661 dBd
Typical End Connector(s)	Generic (1@0.02 dB each)		n/a	-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: 0.27 dBd
CALCULATED TRANSMITTER POWER OUTPUT: **0.094 kW**
(1 / [[10^[dB/10]/ERP]])

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