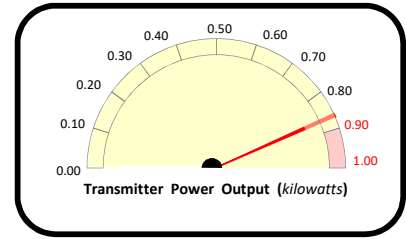


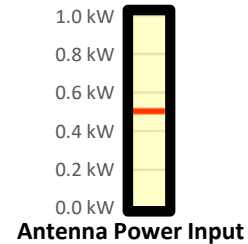
Transmitter Power Output Worksheet

Call letters: W232DK.C
City of License: Auburn, IN
Channel: CH232D (94.3 MHz)
File No: BNPFT-20171201ANL
Facility ID: 200698
Applicant: Northeast Indiana Broadcasting, Inc.



Effective Radiated Power (ERP): 0.250 kW

Antenna Make: Nicom USA, Inc. (NIC)
Antenna Model: BKG1/P-1DA(Slant45)
No of Elements: One (1)
Antenna COR AGL: 88 meters AGL
Antenna COR AMSL: 361 meters AMSL
Max Input Power: 1.00 kW



Power Gain: 0 dBd - 3 dBd = (-3 dBd) due to (H&V) Configuration

Antenna Gain: -3.000 dBd

Calculated Antenna Input Power: 0.499 kW

Transmitter Rated Power: 1.0 kW

Transmitter Make/Model: BW TX1000-V3-FM

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
1/2" Foam Feedline	Cablewave LCF12-50JA	(0.658 dB/100 ft)	359 ft	-2.362 dBd
Typical End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: -5.40 dBd
CALCULATED TRANSMITTER POWER OUTPUT: 0.867 kW
 $(1 / [10^{(5.40/10)} / \text{ERP}])$