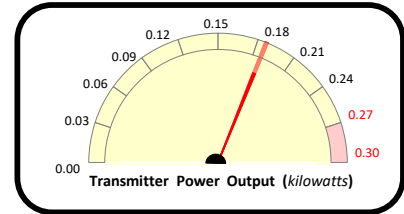


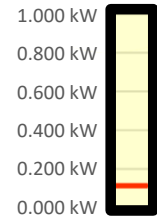
Transmitter Power Output Worksheet

Call letters: W247DN.C
City of License: Richmond, IN
Channel: CH247D (97.3 MHz)
File No: LMS-0000093570
Facility ID: 140566
Applicant: Star Educational Media Network, Inc.



Effective Radiated Power (ERP): 0.055 kW

Antenna Make: Nicom USA, Inc. (NIC)
Antenna Model: BKG1/P-1DA(Slant45)
No of Elements: One (1)
Antenna COR AGL: 91.4 meters AGL
Antenna COR AMSL: 393.4 meters AGL
Max Input Power: 1.000 kW



Antenna Power Input

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

Antenna Gain: -3.000 dBd

Calculated Antenna Input Power: 0.110 kW

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
Main Feedline (1/2" foam)	Cablewave LCF12-50A	(0.658 dB/100 ft)	345 ft	-2.270 dBd
Typical End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: -5.31 dBd
CALCULATED TRANSMITTER POWER OUTPUT: 0.187 kW
 $(1 / [10^{(-5.31/10)} \text{ dB/10}]/\text{ERP}])$