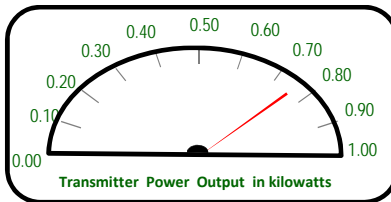
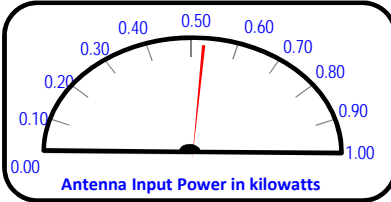


TPO Calculation Summary

Main Antenna Operation

Call letters: W240DG.CP
 City of License: Jackson, MI
 Frequency: CH240D (95.9 MHz)
 File No: BPFT-20160129ANS
 Facility ID: 146888
 Applicant: Jackson Radio Works, Inc.



Operating Effective Radiated Power (ERP): 0.250 kW

Antenna Make: Nicom USA, Inc.
 Antenna Model: BKG77/1L(NDA)
 No of Elements: One (1)
 Antenna COR AGL: 72 meters AGL
 Antenna COR AMSL: 362 meters AMSL
 Max Input Power: 1.0 kW
 Power Gain: 0.47

Log[power gain]*10 = Antenna Gain: -3.279 dBd

Calculated Antenna Input Power: 0.532 kW
 Transmitter Make/Model: HARFAX-1-KINT
 Transmitter Rated Power: 1.0 kW

System Loss Info:

| Description | Component Make/Model | Length | Loss |
|-------------------------------|--|--------|------------|
| 7/8 Inch End Connector | Generic (1@0.05 dB each) | | -0.050 dBd |
| Main Antenna Feedline (Tower) | Andrew 7/8" AVA5-50 (Foam) (0.331 dB/100 ft) | 236 ft | -0.781 dBd |
| 7/8 Inch End Connector | Generic (1@0.05 dB each) | | -0.020 dBd |
| AM Isocoupler | Kintronics Model FMC-1.5 Isocoupler | | -0.200 dBd |
| 7/8 Inch End Connector | Generic (1@0.05 dB each) | | -0.050 dBd |
| Main Antenna Feedline (Tower) | Andrew 7/8" AVA5-50 (Foam) (0.331 dB/100 ft) | 194 ft | -0.642 dBd |
| 7/8 Inch End Connector | Generic (1@0.05 dB each) | | -0.050 dBd |

TOTAL SYSTEM GAIN/LOSS: -5.072 dBd
 $1 / [10^{(-5.072/10)}] = \text{CALCULATED TRANSMITTER POWER OUTPUT: } 0.804 \text{ kW}$