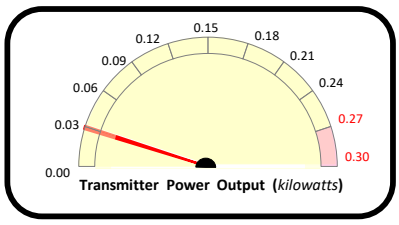
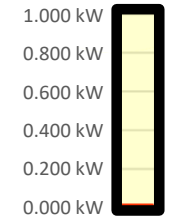
# *Transmitter Power Output Worksheet*

**Call letters:** W280FG.C
**City of License:** Pittsburgh, PA
**Channel:** CH280D (103.9 MHz)
**File No:** BNPFT-20171201ACO
**Facility ID:** 200045
**Applicant:** Steel City Radio, Inc.




**Effective Radiated Power (ERP):** 0.008 kW

**Antenna Make:** Nicom USA, Inc.
**Antenna Model:** BKG77/2L(NDA)(0.85 Spaced)
**No of Elements:** Two (2)
**Antenna COR AGL:** 80 meters AGL
**Antenna COR AMSL:** 438 meters AGL
**Max Input Power:** 1.000 kW
**Power Gain:** 0.9
**Antenna Gain:** -0.458 dBd
**Calculated Antenna Input Power:** 0.009 kW
**Transmitter Rated Power:** 0.300 kW
**Transmitter Make/Model:** Nautel VS300



**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(s) | Generic (2@0.02 dB each) | | n/a | -0.040 dBd |
| Interbay Antenna Lead(s) | RG-213(foam)(12 x 2 leads) | (2.000 dB/100 ft) | 24 ft | -0.480 dBd |
| Typical End Connector(s) | Generic (2@0.02 dB each) | | n/a | -0.040 dBd |
| Interbay Power Divide | Nicom Series BAC2L | | n/a | -0.300 dBd |
| Typical End Connector | Generic (1@0.02 dB each) | | n/a | -0.020 dBd |
| Main Feedline #1 (7/8" foam) | RFS Model LCF78-50JA | (0.368 dB/100 ft) | 283 ft | -1.041 dBd |
| Typical End Connector | Generic (1@0.02 dB each) | | n/a | -0.020 dBd |
| Isocoupler | Phasetek P600-408(500w) Isocoupler | | n/a | -0.500 dBd |
| Typical End Connector | Generic (1@0.02 dB each) | | n/a | -0.020 dBd |
| Main Feedline #2 (7/8" foam) | RFS Model LCF78-50JA | (0.368 dB/100 ft) | 700 ft | -2.576 dBd |
| Typical End Connector | Generic (1@0.02 dB each) | | n/a | -0.020 dBd |
| Jumper to Transmitter | Andrew Superflex FSJ4-50B | (1.081 dB/100 ft) | 10 ft | -0.108 dBd |
| Typical End Connector | Generic (1@0.02 dB each) | | n/a | -0.020 dBd |
| | | | | |
| | | | | |

**TOTAL SYSTEM GAIN/LOSS:** -5.64 dBd
**CALCULATED TRANSMITTER POWER OUTPUT:** **0.029 kW**
(1 / [[10^[ dB/10]/ERP]] )

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