

KISU-TV

Channel 17 - Pocatello, Idaho

ERP = 172000.00 WATTS

APPENDIX A

Maximum ERP 172 kW

Polarization ----- 1.33 Elliptical
Antenna Height Above Ground -- 40.39 meters 132.5 feet
FCC Uncontrolled RFR Limit ---- 327.33 $\mu\text{W}/\text{cm}^2$

Maximum Computed Power Density 15.845 $\mu\text{W}/\text{cm}^2$
4.84% of limit

| Angle Below Horizontal (degrees) | <Point X> Horiz Distance from tower to 2 m AGL (meters) | Slant Distance from antenna to Point X (meters) | Vertical Pattern (REL. FIELD) | KISU-TV ERP (kW) | KISU-TV Calculated Power Density $\mu\text{W}/\text{cm}^2$ | Percent Limit | Limit Exceeded? |
|---|---|--|-------------------------------------|------------------------|--|------------------|--------------------|
| 1 | | | 1.000 | 172.0000 | | | |
| 5 | 438.8 | 440.5 | 0.181 | 5.6349 | 1.290 | 0.39% | No |
| 10 | 217.7 | 221.1 | 0.043 | 0.3180 | 0.289 | 0.09% | No |
| 15 | 143.3 | 148.3 | 0.034 | 0.1988 | 0.401 | 0.12% | No |
| 20 | 105.5 | 112.2 | 0.046 | 0.3640 | 1.283 | 0.39% | No |
| 25 | 82.3 | 90.8 | 0.022 | 0.0832 | 0.448 | 0.14% | No |
| 30 | 66.5 | 76.8 | 0.029 | 0.1447 | 1.090 | 0.33% | No |
| 35 | 54.8 | 66.9 | 0.021 | 0.0759 | 0.752 | 0.23% | No |
| 40 | 45.8 | 59.7 | 0.001 | 0.0002 | 0.002 | 0.00% | No |
| 45 | 38.4 | 54.3 | 0.022 | 0.0832 | 1.255 | 0.38% | No |
| 50 | 32.2 | 50.1 | 0.004 | 0.0028 | 0.049 | 0.01% | No |
| 55 | 26.9 | 46.9 | 0.027 | 0.1254 | 2.536 | 0.77% | No |
| 60 | 22.2 | 44.3 | 0.039 | 0.2616 | 5.914 | 1.81% | No |
| 65 | 17.9 | 42.4 | 0.061 | 0.6400 | 15.845 | 4.84% | No |
| 70 | 14.0 | 40.9 | 0.057 | 0.5588 | 14.873 | 4.54% | No |
| 75 | 10.3 | 39.7 | 0.045 | 0.3483 | 9.795 | 2.99% | No |
| 80 | 6.8 | 39.0 | 0.035 | 0.2107 | 6.159 | 1.88% | No |
| 85 | 3.4 | 38.5 | 0.040 | 0.2752 | 8.232 | 2.51% | No |
| 90 | 0.0 | 38.4 | 0.000 | 0.0000 | 0.000 | 0.00% | No |

