# Exhibit 17.1
# Tabulation of Proposed Nighttime Allocation

Night Allocation Protection Report

Call: WDAY.P
Freq: 970 kHz
FARGO, ND, US
Hours: N
Lat: 46-38-48 N
Lng: 096-21-50 W
Power: 10.0 kW
Theo RMS: 1040.23 mV/m @ 1km @ 10.0 kW

| # | Field Ratio | Phase (deg) | Spacing (deg) | Orient (deg) | Height (deg) | Ref Swtch | TL Swtch | A (deg) | B (deg) | C (deg) | D (deg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.000 | 0.0 | 0.0 | 0.0 | 90.0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 | 0.300 | 132.0 | 80.0 | 135.0 | 90.0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | 0.700 | -137.0 | 100.0 | 10.0 | 90.0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |

| Call Letters | Ct | St | City | Azi (deg) | Ang Low (deg) | Ang High (deg) | SWFF (100uV/m) | Req Prot (mV/m) | Permis (mV/m) | Cur Rad (mV/m) | Margin (mV/m) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| KMA.L | US | IA | SHENANDOAH | 172.57 | 10.87 | 18.49 | 68.35 | 0.797 | 583.01 | 581.22 | 1.79 |
| 50% = 2.231, 25% = 3.043; OAX4D.O-A=1.27 KKNT.L=1.09 WSBT.L=1.04 ZFB.O-A=1.04 KQAQ.L=0.97 KWOS.L=0.96 WDAY.L=0.80 KGWA.L=0.79 KOVO.L=0.77 KRWZ.L=0.76 | | | | | | | | | | | |
| WNED.L | US | NY | BUFFALO | 101.13 | 2.44 | 6.13 | 13.90 | 1.828 | 657.43 | 647.86 | 9.57 |
| 50% = 5.512, 25% = 7.311; WBGG.L=4.02 980CKRU/ =2.81 WGTK.L=2.51 WNYM.L=2.51 WAMD.L=2.26 WFUN.L=2.15 970CKCH/ =1.90 WZAN.L=1.86 | | | | | | | | | | | |
| KBUL.L | US | MT | BILLINGS | 268.31 | 6.57 | 12.11 | 33.49 | 3.192 | 476.61 | 462.59 | 14.03 |
| 50% = 4.852, 25% = 5.904; WDAY.L=3.55 XEJ.O/A=2.49 KUFO.L=2.18 KFTA.L=2.02 KTTO.L=1.66 970CFXE/ =1.56 KESP.L=1.44 | | | | | | | | | | | |
| KQAQ.L | US | MN | AUSTIN | 139.43 | 17.86 | 28.54 | 123.31 | 2.994 | 121.40 | 104.66 | 16.74 |
| 50% = 4.656, 25% = 5.048; WDAY.L=3.33 KMA.L=3.26 XEJ.O/A=1.95 | | | | | | | | | | | |
| KCFO.L | US | OK | TULSA | 178.56 | 4.44 | 8.99 | 28.50 | 3.998 | 701.42 | 663.44 | 37.98 |
| 50% = 10.971, 25% = 14.407; WGTK.L=8.94 WMAY.L=6.36 XEJ.O/A=5.13 KSYL.L=5.06 KHVN.L=4.39 WDAY.L=4.00 | | | | | | | | | | | |
| WFUN.L | US | OH | ASHTABULA | 107.81 | 3.04 | 6.99 | 16.86 | 2.057 | 609.98 | 526.77 | 83.22 |
| 50% = 7.812, 25% = 8.228; WBGG.L=4.41 WGTK.L=3.98 WNED.L=3.67 WKHM.L=3.51 WFIR.C=2.58 | | | | | | | | | | | |
| WGTK.L | US | KY | LOUISVILLE | 133.05 | 3.61 | 7.80 | 22.06 | 0.943 | 213.75 | 76.77 | 136.98 |
| 50% = 2.705, 25% = 3.874; WYFN.L=1.69 XEJ.O/A=1.65 XEDF.O/A=1.31 WAMD.L=1.27 KCFO.L=1.08 KHVN.L=1.01 XEO.O/A=1.01 HCOT1.O-A=1.00 WKCI.L=0.99 HCAW2.O-A=0.94 | | | | | | | | | | | |
| 970KAPUS/ | CA | ON | Kapuskasing | 68.52 | 7.61 | 7.61 | 56.49 | 13.876 | 1228.07 | 1077.04 | 151.03 |
| 50% = 30.91, 25% = 32.236; WNED.L=27.62 WKHM.L=13.88 WFUN.L=9.15 | | | | | | | | | | | |
| WKHM.L | US | MI | JACKSON | 113.30 | 5.27 | 10.21 | 27.08 | 3.149 | 581.50 | 418.69 | 162.81 |
| 50% = 11.407, 25% = 12.596; WGTK.L=10.04 WONE.L=5.41 WBGG.L=3.94 WMAY.L=3.61 | | | | | | | | | | | |
| KUFO.L | US | OR | PORTLAND | 276.10 | 0.00 | 2.14 | 7.09 | 1.194 | 841.73 | 615.71 | 226.02 |
| 50% = 3.848, 25% = 4.774; KFTA.L=2.94 KLAD.L=2.49 CKNW/ =1.71 KALE.L=1.67 XEJ.O/A=1.51 | | | | | | | | | | | |
| WMAY.L | US | IL | SPRINGFIELD | 141.40 | 6.65 | 12.24 | 37.91 | 3.400 | 448.53 | 168.85 | 279.69 |
| 50% = 13.012, 25% = 13.602; WGTK.L=13.01 KCFO.L=3.96 | | | | | | | | | | | |
| WZAN.L | US | ME | PORTLAND | 89.93 | 0.00 | 1.96 | 5.44 | 1.208 | 1110.15 | 826.38 | 283.77 |
| 50% = 3.729, 25% = 4.834; WOFX.L=3.22 WCAP.L=1.88 980CBV/ =1.83 970CBZ/ =1.48 970CKCH/ =1.45 WNYM.L=1.34 | | | | | | | | | | | |
| XEJ.O/A | MX | CH | CD.JUAREZ | 211.09 | 1.64 | 1.64 | 12.88 | 2.889 | 1121.37 | 821.73 | 299.64 |
| 50% = 6.289, 25% = 8.853; XEMF.O/A=3.40 XEEZ.O/A=3.15 XEO.O/A=3.12 XEDF.O/A=2.89 KNUU.L=2.76 XEVOX.O/A=2.64 KCFO.L=2.53 KIXL.L=2.53 KHVN.L=2.39 WDAY.L=2.39 | | | | | | | | | | | |

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| Call Letters | Ct | St | City | Azi (deg) | Ang Low (deg) | Ang High (deg) | SWFF (100uV/m) | Req Prot (mV/m) | Permis (mV/m) | Cur Rad (mV/m) | Margin (mV/m) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| XEJ.O/O | MX | CH | CD.JUAREZ | 210.69 | 1.63 | 1.63 | 12.86 | 2.957 | 1149.60 | 821.59 | 328.01 |
| 50% = 6.37, 25% = 8.94; XEMF.O/A=3.46 XEO.O/A=3.18 XEEZ.O/A=3.12 XEDF.O/A=2.96 KNUU.L=2.71 XEVOX.O/A=2.66 KCFO.L=2.60 KIXL.L=2.57 KHVN.L=2.43 WDAY.L=2.38 | | | | | | | | | | | |
| KHVN.A | US | TX | BEDFORD | 182.67 | 1.87 | 5.35 | 18.28 | 4.103 | 1122.59 | 701.03 | 421.55 |
| 50% = 14.381, 25% = 16.75; KIXL.L=10.68 XEJ.O/A=7.06 WGTK.L=6.56 KSYL.L=6.13 KCFO.L=4.40 WMAY.L=4.10 | | | | | | | | | | | |
| KHVN.A | US | TX | BEDFORD | 182.67 | 1.87 | 5.35 | 18.28 | 4.103 | 1122.59 | 701.03 | 421.55 |
| 50% = 14.381, 25% = 16.75; KIXL.L=10.68 XEJ.O/A=7.06 WGTK.L=6.56 KSYL.L=6.13 KCFO.L=4.40 WMAY.L=4.10 | | | | | | | | | | | |
| KHVN.L | US | TX | FORT WORTH | 183.27 | 1.86 | 5.33 | 18.25 | 4.192 | 1148.78 | 705.53 | 443.25 |
| 50% = 13.593, 25% = 16.769; KIXL.L=11.50 XEJ.O/A=7.25 WGTK.L=6.43 KSYL.L=5.88 KCFO.L=4.52 | | | | | | | | | | | |
| KIXL.L | US | TX | DEL VALLE | 183.86 | 0.43 | 3.38 | 14.05 | 3.531 | 1257.05 | 710.96 | 546.09 |
| 50% = 11.507, 25% = 14.126; XEJ.O/A=7.46 XEO.O/A=6.94 KHVN.L=5.35 WGTK.L=5.08 XEDF.O/A=4.91 XEMF.O/A=4.15 | | | | | | | | | | | |
| 970CKCH/ | CA | QC | Hull | 87.57 | 3.29 | 3.29 | 22.06 | 6.236 | 1413.25 | 856.63 | 556.62 |
| 50% = 12.472, 25% = 13.624; WZAN.L=9.70 WNED.L=7.84 WKHM.L=5.48 | | | | | | | | | | | |
| WNYM.L | US | NJ | HACKENSACK | 101.55 | 0.07 | 2.91 | 7.98 | 1.921 | 1203.22 | 641.70 | 561.52 |
| 50% = 6.469, 25% = 7.702; WZAN.L=5.76 WBGG.L=2.94 WAMD.L=2.87 WOFX.L=2.36 WILK.L=1.92 | | | | | | | | | | | |
| KSYL.L | US | LA | ALEXANDRIA | 167.61 | 0.83 | 3.92 | 14.81 | 3.585 | 1209.90 | 560.93 | 648.97 |
| 50% = 10.035, 25% = 14.534; WGTK.L=8.51 KCFO.L=5.33 WMAY.L=4.38 WFLA.L=4.25 KIXL.L=4.15 XEO.O/A=3.89 XEJ.O/A=3.81 KHVN.L=3.68 XEDF.O/A=3.58 | | | | | | | | | | | |
| KTTO.L | US | WA | SPOKANE | 281.58 | 1.60 | 4.98 | 11.00 | 3.090 | 1405.28 | 750.27 | 655.01 |
| 50% = 12.361, 25% = 12.361; KUFO.L=8.75 KFTA.L=6.64 KBUL.L=5.66 | | | | | | | | | | | |
| WBGG.L | US | PA | PITTSBURGH | 111.55 | 2.22 | 5.83 | 14.59 | 3.502 | 1200.17 | 455.63 | 744.54 |
| 50% = 13.517, 25% = 14.007; WFUN.L=13.52 WFIR.C=3.67 | | | | | | | | | | | |
| KMBZ.L | US | MO | KANSAS CITY | 169.83 | 7.59 | 13.63 | 45.58 | 1.220 | 1338.27 | 569.87 | 768.41 |
| 50% = 3.981, 25% = 4.973; ZYH-707.O-A=3.98 KFWB.L=1.75 WTEM.L=1.68 CBW/ =1.23 HOR 57.O-A=1.22 | | | | | | | | | | | |
| KNEB.L | US | NE | SCOTTSBLUFF | 229.64 | 8.52 | 15.01 | 50.24 | 1.559 | 1551.02 | 732.13 | 818.89 |
| 50% = 5.4, 25% = 6.234; KRWZ.L=3.31 KMA.L=3.14 KGWA.L=2.90 KKNT.L=1.95 KGKL.L=1.81 KOVO.L=1.61 | | | | | | | | | | | |
| KNUU.L | US | NV | PARADISE | 239.70 | 0.00 | 2.52 | 10.87 | 3.380 | 1554.46 | 652.14 | 902.32 |
| 50% = 11.139, 25% = 13.521; XEJ.O/A=6.49 KFTA.L=5.54 KUFO.L=5.08 KNWZ.L=5.05 KESP.L=4.86 KBUL.L=4.49 KHTY.L=3.87 | | | | | | | | | | | |
| KFTA.L | US | ID | RUPERT | 258.13 | 2.45 | 6.16 | 16.46 | 4.487 | 1363.24 | 430.02 | 933.22 |
| 50% = 15.946, 25% = 17.949; KBUL.L=15.95 KTTO.L=5.84 KUFO.L=5.81 | | | | | | | | | | | |
| 970CFXE/ | CA | AB | Edson | 305.50 | 3.05 | 3.05 | 20.38 | 9.445 | 2317.35 | 1349.05 | 968.31 |
| 50% = 19.984, 25% = 19.984; KBUL.L=14.48 KUFO.L=10.03 KTTO.L=9.44 | | | | | | | | | | | |
| KHTY.L | US | CA | BAKERSFIELD | 244.57 | 0.00 | 0.97 | 8.33 | 2.646 | 1587.53 | 588.53 | 999.00 |
| 50% = 8.996, 25% = 10.583; KUFO.L=6.52 KFTA.L=4.44 XEJ.O/A=4.32 KNWZ.L=4.05 KBUL.L=3.83 | | | | | | | | | | | |
| KKMS.L | US | MN | RICHFIELD | 129.07 | 23.49 | 36.02 | 171.46 | 3.888 | 1133.71 | 113.15 | 1020.56 |
| 50% = 14.318, 25% = 15.551; KMBZ.L=9.18 WONE.L=8.88 WITY.L=6.47 WYFN.L=4.52 KDSJ.L=4.05 | | | | | | | | | | | |
| KNWZ.L | US | CA | COACHELLA | 236.22 | 0.00 | 1.22 | 9.16 | 3.156 | 1722.71 | 692.98 | 1029.73 |
| 50% = 10.239, 25% = 12.622; KHTY.L=7.81 XEJ.O/A=6.62 KUFO.L=4.40 KFTA.L=3.65 XEEZ.O/A=3.39 KBUL.L=3.22 | | | | | | | | | | | |
| WFLA.L | US | FL | TAMPA | 145.11 | 0.00 | 0.30 | 8.11 | 2.357 | 1453.06 | 238.34 | 1214.72 |
| 50% = 7.56, 25% = 9.427; WGTK.L=6.49 KSYL.L=3.87 WJMX.L=3.66 WBGG.L=2.58 KCFO.L=2.43 XEDF.O/A=2.40 | | | | | | | | | | | |
| KDSJ.L | US | SD | DEADWOOD | 248.76 | 11.64 | 19.63 | 70.48 | 2.898 | 2055.89 | 500.47 | 1555.41 |
| 50% = 10.416, 25% = 11.592; KMBZ.L=8.68 CJME/ =5.76 KSVC.L=3.64 KSPZ.L=3.56 | | | | | | | | | | | |

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| Call Letters | Ct | St | City | Azi (deg) | Ang Low (deg) | Ang High (deg) | SWFF (100uV/m) | Req Prot (mV/m) | Permis (mV/m) | Cur Rad (mV/m) | Margin (mV/m) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| KESP.L | US | CA | MODESTO | 252.55 | 0.00 | 1.01 | 7.83 | 3.464 | 2213.12 | 482.72 | 1730.41 |
| 50% = 12.554, 25% = 13.855; KUFO.L=10.19 KHTY.L=7.33 KFTA.L=4.19 KBUL.L=4.10 | | | | | | | | | | | |
| WJMX.L | US | SC | FLORENCE | 128.84 | 0.00 | 2.53 | 10.11 | 4.693 | 2322.02 | 120.76 | 2201.26 |
| 50% = 14.393, 25% = 19.04; WGTK.L=14.39 WKCI.L=6.92 WBGG.L=6.12 WFUN.L=5.08 WAMD.L=4.70 WNYM.L=4.69 | | | | | | | | | | | |
| XENVA2.P/A | MX | CI | CD.ACUNA | 193.21 | 1.13 | 1.13 | 10.94 | 6.825 | 3120.20 | 769.29 | 2350.91 |
| 50% = 15.095, 25% = 18.406; XEJ.O/A=13.46 KIXL.L=6.83 XEDF.O/A=6.43 XEO.O/A=6.40 XEMF.O/A=5.35 | | | | | | | | | | | |
| WAMD.L | US | MD | ABERDEEN | 108.66 | 0.45 | 3.42 | 9.57 | 6.219 | 3249.53 | 511.94 | 2737.59 |
| 50% = 23.286, 25% = 24.874; WBGG.L=23.29 WNYM.L=8.74 | | | | | | | | | | | |
| KGWA.L | US | OK | ENID | 187.04 | 4.60 | 9.23 | 29.40 | 2.158 | 3670.22 | 726.60 | 2943.62 |
| 50% = 8.27, 25% = 8.631; KMA.L=5.92 KZIM.L=4.43 WERC.L=3.70 KNEB.L=2.47 | | | | | | | | | | | |
| WSBT.L | US | IN | SOUTH BEND | 121.01 | 6.12 | 11.45 | 32.50 | 2.131 | 3278.33 | 265.74 | 3012.59 |
| 50% = 7.271, 25% = 8.523; WFIR.C=6.48 WERC.L=3.29 WRFC.L=3.07 KMA.L=2.32 WTGM.L=2.23 | | | | | | | | | | | |
| KOVO.L | US | UT | PROVO | 245.38 | 2.56 | 6.31 | 18.15 | 1.371 | 3777.68 | 575.68 | 3202.00 |
| 50% = 4.448, 25% = 5.485; KKGN.L=2.81 KGKL.L=2.71 KKNT.L=2.13 KGWA.L=2.09 CFAC/ =1.82 KALE.L=1.61 | | | | | | | | | | | |
| 970CFIQ/ | CA | NF | Harbour Grace | 71.91 | 0.00 | 0.00 | 3.04 | 2.604 | 4277.72 | 1056.29 | 3221.42 |
| 50% = 5.208, 25% = 5.208; WZAN.L=5.21 | | | | | | | | | | | |
| WSTX.L | US | VI | CHRISTIANSTED | 127.23 | 0.00 | 0.00 | 2.70 | 1.862 | 3443.77 | 147.91 | 3295.87 |
| 50% = 6.055, 25% = 7.448; HIVP.O-C=3.25 HCOT1.O-A=3.20 WBGG.L=2.82 HCAW2.O-A=2.81 WFLA.L=2.72 WJMX.L=2.61 WNYM.L=2.14 | | | | | | | | | | | |
| KZIM.L | US | MO | CAPE GIRARDEAU | 148.91 | 4.28 | 8.76 | 26.34 | 1.974 | 3746.98 | 298.06 | 3448.92 |
| 50% = 6.546, 25% = 7.897; KMA.L=5.58 WFIR.C=3.42 WGTK.L=3.25 WERC.L=3.00 | | | | | | | | | | | |
| XEEZ.O/A | MX | SO | CABORCA | 223.03 | 0.00 | 0.00 | 7.64 | 6.974 | 4562.21 | 797.34 | 3764.87 |
| 50% = 13.948, 25% = 14.426; XEJ.O/A=13.95 KHTY.L=3.68 | | | | | | | | | | | |
| WKCI.L | US | VA | WAYNESBORO | 117.43 | 0.93 | 4.06 | 11.65 | 9.597 | 4119.76 | 339.50 | 3780.26 |
| 50% = 37.026, 25% = 38.388; WBGG.L=37.03 WFUN.L=10.14 | | | | | | | | | | | |
| XEO.O/A | MX | TA | MATAMOROS | 182.98 | 0.00 | 0.00 | 6.92 | 6.569 | 4748.62 | 704.49 | 4044.12 |
| 50% = 13.139, 25% = 15.097; XEDF.O/A=11.08 XEJ.O/A=7.06 XEMF.O/A=4.65 WFLA.L=4.44 KIXL.L=3.73 | | | | | | | | | | | |
| WERC.L | US | AL | BIRMINGHAM | 147.78 | 1.19 | 4.41 | 14.91 | 1.323 | 4437.00 | 282.70 | 4154.30 |
| 50% = 4.146, 25% = 5.451; ZFB.O-A=2.51 OAX4D.O-A=1.97 WRFC.L=1.89 WGTK.L=1.86 WJYZ.L=1.75 KGKL.L=1.75 WFIR.C=1.69 WSVU.L=1.35 WABG.L=1.32 | | | | | | | | | | | |
| XEMF.O/A | MX | CI | MONCLOVA | 193.25 | 0.00 | 0.00 | 7.56 | 7.696 | 5086.47 | 769.85 | 4316.62 |
| 50% = 16.928, 25% = 18.325; XEJ.O/A=11.76 XEDF.O/A=9.43 KIXL.L=7.70 XEO.O/A=7.02 | | | | | | | | | | | |
| XEDF.O/A | MX | DF | IZTAPALAPA | 185.63 | 0.00 | 0.00 | 3.47 | 3.685 | 5312.47 | 723.53 | 4588.94 |
| 50% = 7.369, 25% = 10.338; XEO.O/A=5.08 XEVT.O/A=3.85 XECJ.O/A=3.70 XEZAZ.P/A=3.43 XEBJ.O/A=3.00 XEJ.O/A=2.98 XEVOX.O/A=2.92 XEMF.O/A=2.82 XEMH.O/A=2.55 | | | | | | | | | | | |
| CBDX/ | CA | YT | Swift River | 316.04 | 0.00 | 0.00 | 4.64 | 5.723 | 6161.97 | 1553.32 | 4608.65 |
| 50% = 11.446, 25% = 11.997; KFBX.L=11.45 KUFO.L=3.59 | | | | | | | | | | | |
| KKNT.L | US | AZ | PHOENIX | 228.03 | 0.00 | 2.57 | 11.64 | 1.372 | 5893.42 | 767.73 | 5125.69 |
| 50% = 4.766, 25% = 5.493; KGKL.L=2.97 KKGN.L=2.64 KOVO.L=2.62 XE.P/A=1.76 KNEB.L=1.58 WERC.L=1.37 | | | | | | | | | | | |
| KSGM.L | US | IL | CHESTER | 149.41 | 4.81 | 9.54 | 28.87 | 3.164 | 5479.10 | 305.26 | 5173.84 |
| 50% = 11.091, 25% = 12.842; KMBZ.L=8.95 WYFN.L=6.55 ZYH-707.O-A=4.56 KRTX.L=3.33 WTEM.L=3.16 | | | | | | | | | | | |
| WFIR.C | US | VA | ROANOKE | 121.88 | 1.02 | 4.18 | 12.33 | 1.370 | 5554.54 | 250.23 | 5304.31 |
| 50% = 4.978, 25% = 5.646; ZFB.O-A=4.29 WBES.L=2.53 OAX4D.O-A=1.68 WGTK.L=1.55 WTGM.L=1.37 | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| WFIR.L | US | VA | ROANOKE | 121.84 | 0.98 | 4.12 | 12.22 | 1.379 | 5643.62 | 250.98 | 5392.64 |
| 50% = 5.024, 25% = 5.515; ZFB.O-A=4.34 WBES.L=2.54 OAX4D.O-A=1.68 WGTK.L=1.54 | | | | | | | | | | | |
| KGKL.L | US | TX | SAN ANGELO | 193.05 | 0.91 | 4.03 | 15.36 | 1.900 | 6184.97 | 768.57 | 5416.41 |
| 50% = 5.827, 25% = 7.618; WERC.L=5.08 KMA.L=2.86 KGWA.L=2.29 KOVO.L=1.97 XE.P/A=1.96 XEMM.O/A=1.94 XECZ.O/A=1.93 XECS.O/A=1.90 | | | | | | | | | | | |
| XEMH1.P/A | MX | YC | MERIDA | 165.51 | 0.00 | 0.00 | 3.83 | 4.894 | 6389.78 | 536.79 | 5852.99 |
| 50% = 9.789, 25% = 12.585; XEDF.O/A=7.64 WFLA.L=6.12 XEVT.O/A=4.44 KSYL.L=4.22 XEO.O/A=3.68 KIXL.L=3.38 | | | | | | | | | | | |
| XEMH.O/A | MX | YC | MERIDA | 165.58 | 0.00 | 0.00 | 3.82 | 4.896 | 6412.81 | 537.62 | 5875.18 |
| 50% = 9.792, 25% = 12.578; XEDF.O/A=7.68 WFLA.L=6.08 XEVT.O/A=4.46 KSYL.L=4.19 XEO.O/A=3.68 KIXL.L=3.36 | | | | | | | | | | | |
| KGLN.L | US | CO | GLENWOOD SPRING | 232.33 | 4.23 | 8.70 | 25.98 | 3.463 | 6664.53 | 726.83 | 5937.70 |
| 50% = 11.57, 25% = 14.262; KMBZ.L=8.44 KSVC.L=7.92 KFWB.L=5.66 KSPZ.L=5.05 CKNW/ =3.46 | | | | | | | | | | | |
| XEVOX.O/A | MX | SI | MAZATLAN | 202.54 | 0.00 | 0.00 | 4.42 | 6.446 | 7286.66 | 808.31 | 6478.35 |
| 50% = 12.892, 25% = 14.473; XEDF.O/A=9.42 XEJ.O/A=8.80 XEO.O/A=3.88 XEZAZ.P/A=3.79 XEMF.O/A=3.72 | | | | | | | | | | | |
| XEVOX.P/A | MX | SI | MAZATLAN | 202.54 | 0.00 | 0.00 | 4.42 | 6.446 | 7286.66 | 808.31 | 6478.35 |
| 50% = 12.892, 25% = 14.473; XEDF.O/A=9.42 XEJ.O/A=8.80 XEO.O/A=3.88 XEZAZ.P/A=3.79 XEMF.O/A=3.72 | | | | | | | | | | | |
| XEVOX1.P/A | MX | SI | MAZATLAN | 202.54 | 0.00 | 0.00 | 4.42 | 6.446 | 7286.66 | 808.31 | 6478.35 |
| 50% = 12.892, 25% = 14.473; XEDF.O/A=9.42 XEJ.O/A=8.80 XEO.O/A=3.88 XEZAZ.P/A=3.79 XEMF.O/A=3.72 | | | | | | | | | | | |
| XEBJ.P/A | MX | TA | BENITO JUAREZ | 186.51 | 0.00 | 0.00 | 5.34 | 7.863 | 7363.42 | 729.53 | 6633.89 |
| 50% = 16.106, 25% = 17.934; XEDF.O/A=14.06 XEO.O/A=7.86 XEJ.O/A=6.42 XEMF.O/A=4.59 | | | | | | | | | | | |
| XEBJ.O/A | MX | TA | CD.VICTORIA | 186.53 | 0.00 | 0.00 | 5.31 | 7.836 | 7376.16 | 729.67 | 6646.49 |
| 50% = 16.14, 25% = 17.949; XEDF.O/A=14.11 XEO.O/A=7.84 XEJ.O/A=6.38 XEMF.O/A=4.57 | | | | | | | | | | | |
| WTCH.L | US | WI | SHAWANO | 106.27 | 11.34 | 19.19 | 64.53 | 9.272 | 7184.38 | 536.32 | 6648.06 |
| 50% = 35.068, 25% = 37.088; WSBT.L=35.07 KMA.L=12.07 | | | | | | | | | | | |
| 970CBZ/ | CA | NB | Fredericton | 81.10 | 0.00 | 0.00 | 7.27 | 11.101 | 7633.58 | 944.90 | 6688.68 |
| 50% = 22.202, 25% = 22.202; WZAN.L=22.20 | | | | | | | | | | | |
| XEZAZ.P/A | MX | ZA | ZACATECAS | 193.86 | 0.00 | 0.00 | 4.57 | 7.185 | 7868.46 | 773.00 | 7095.45 |
| 50% = 15.535, 25% = 17.843; XEDF.O/A=13.77 XEJ.O/A=7.18 XEO.O/A=5.84 XEVOX.O/A=4.76 KIXL.L=4.50 | | | | | | | | | | | |
| XEZAZ.P/A | MX | ZA | ZACATECAS | 193.98 | 0.00 | 0.00 | 4.57 | 7.234 | 7909.16 | 773.64 | 7135.52 |
| 50% = 15.499, 25% = 17.816; XEDF.O/A=13.71 XEJ.O/A=7.23 XEO.O/A=5.82 XEVOX.O/A=4.78 KIXL.L=4.52 | | | | | | | | | | | |
| KALE.L | US | WA | RICHLAND | 276.87 | 0.80 | 3.88 | 9.59 | 1.494 | 7788.03 | 633.44 | 7154.60 |
| 50% = 5.012, 25% = 5.976; CFAC/ =4.10 KOVO.L=2.89 KKGN.L=2.44 KLAD.L=2.15 | | | | | | | | | | | |
| WCUB.L | US | WI | TWO RIVERS | 109.85 | 9.42 | 16.35 | 51.23 | 8.052 | 7859.00 | 477.13 | 7381.86 |
| 50% = 28.951, 25% = 32.207; WONE.L=28.95 WITY.L=14.11 | | | | | | | | | | | |
| YNE1.O-B | NU | | RADIO ZINICA | 161.25 | 0.00 | 0.00 | 0.76 | 1.210 | 8006.84 | 483.67 | 7523.16 |
| 50% = 2.421, 25% = 3.146; HCOT1.O-A=1.96 HCAW2.O-A=1.41 WFLA.L=1.01 XEVT.O/A=0.90 XEMH.O/A=0.90 XEDF.O/A=0.88 HCJX6.O-A=0.78 | | | | | | | | | | | |
| KFWB.L | US | CA | LOS ANGELES | 240.46 | 0.00 | 0.71 | 8.27 | 1.390 | 8402.67 | 642.67 | 7760.00 |
| 50% = 5.335, 25% = 5.709; ZYH-707.O-A=2.86 KMBZ.L=2.80 XECL.P/A=2.53 KHTY.L=2.47 KBBO.L=1.48 KMIN.C=1.39 | | | | | | | | | | | |
| KKGN.L | US | CA | OAKLAND | 254.57 | 0.00 | 0.57 | 7.16 | 1.209 | 8449.65 | 460.24 | 7989.41 |
| 50% = 4.422, 25% = 4.837; KAHI.L=4.42 KESP.L=1.54 KGKL.L=1.21 | | | | | | | | | | | |

# Exhibit 17.1
## Tabulation of Proposed Nighttime Allocation

| Call Letters | Ct | St | City | Azi (deg) | Ang Low (deg) | Ang High (deg) | SWFF (100uV/m) | Req Prot (mV/m) | Permis (mV/m) | Cur Rad (mV/m) | Margin (mV/m) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WYFN.L | US | TN | NASHVILLE | 141.84 | 2.64 | 6.42 | 19.13 | 3.165 | 8270.68 | 181.77 | 8088.91 |
| 50% = 9.518, 25% = 12.719; WTEM.L=5.74 KMBZ.L=5.58 ZYH-707.O-A=5.14 WITY.L=4.41 WGTK.L=3.97 KSGM.L=3.88 KRTX.L=3.30 WTOT.L=3.16 | | | | | | | | | | | |
| XE.P/A | MX | ZA | JUCHIPILA | 194.55 | 0.00 | 0.00 | 3.97 | 7.115 | 8957.05 | 776.51 | 8180.54 |
| 50% = 14.23, 25% = 17.531; XEDF.O/A=14.23 XEJ.O/A=5.84 XEO.O/A=4.99 XEZAZ.P/A=4.79 XEVOX.O/A=4.78 | | | | | | | | | | | |
| WONE.L | US | OH | DAYTON | 123.80 | 3.71 | 7.95 | 21.47 | 3.636 | 8467.54 | 212.03 | 8255.51 |
| 50% = 10.181, 25% = 14.542; WTEM.L=7.72 WYFN.L=6.64 980CKRU/ =5.04 ZYH-707.O-A=4.70 WILK.L=4.10 KMBZ.L=3.90 KSGM.L=3.84 WFHG.L=3.68 | | | | | | | | | | | |
| CMHD.P-D | CU | | CAMAGUEY | 143.03 | 0.00 | 0.00 | 1.17 | 2.025 | 8640.11 | 202.99 | 8437.12 |
| 50% = 4.05, 25% = 4.299; WFLA.L=4.05 WJMX.L=1.44 | | | | | | | | | | | |
| TGAX.O-B | GT | | CONTINENTAL | 169.48 | 0.00 | 0.00 | 0.94 | 1.712 | 9104.12 | 581.81 | 8522.31 |
| 50% = 3.423, 25% = 3.889; XEDF.O/A=2.88 XEVT.O/A=1.85 XEMH.O/A=1.54 WFLA.L=1.02 | | | | | | | | | | | |
| KSPZ.L | US | ID | AMMON | 259.87 | 3.57 | 7.75 | 20.35 | 3.651 | 8969.48 | 421.48 | 8548.00 |
| 50% = 11.57, 25% = 14.604; CKNW/ =7.60 KDSJ.L=7.01 KFWB.L=5.20 KSVC.L=5.16 CJME/ =4.35 KMBZ.L=4.15 KBBO.L=4.07 | | | | | | | | | | | |
| XEVT.O/A | MX | TB | VILLAHERMOSA | 173.36 | 0.00 | 0.00 | 3.06 | 6.078 | 9933.16 | 621.62 | 9311.54 |
| 50% = 12.156, 25% = 13.514; XEDF.O/A=12.16 XEMH.O/A=4.72 XEO.O/A=3.55 | | | | | | | | | | | |
| XEVT1.P/A | MX | TB | VILLAHERMOSA | 173.36 | 0.00 | 0.00 | 3.06 | 6.078 | 9933.16 | 621.62 | 9311.54 |
| 50% = 12.156, 25% = 13.514; XEDF.O/A=12.16 XEMH.O/A=4.72 XEO.O/A=3.55 | | | | | | | | | | | |
| KMIN.L | US | NM | GRANTS | 221.06 | 1.54 | 4.89 | 16.50 | 3.390 | 10271.76 | 805.01 | 9466.76 |
| 50% = 12.358, 25% = 13.938; KFWB.L=7.72 KMBZ.L=7.20 KSVC.L=6.42 KSPZ.L=4.25 ZYH-707.O-A=3.46 KGLN.L=3.39 | | | | | | | | | | | |
| WITY.L | US | IL | DANVILLE | 132.93 | 5.79 | 10.97 | 32.26 | 6.162 | 9550.22 | 76.01 | 9474.21 |
| 50% = 21.967, 25% = 24.648; WYFN.L=17.34 WONE.L=13.48 KSGM.L=9.19 KMBZ.L=6.37 | | | | | | | | | | | |
| XEUG1.P/A | MX | GT | GUANAJUATO | 190.53 | 0.00 | 0.00 | 3.94 | 8.314 | 10561.80 | 754.81 | 9806.99 |
| 50% = 16.628, 25% = 18.21; XEDF.O/A=16.63 XEO.O/A=5.58 XEJ.O/A=4.89 | | | | | | | | | | | |
| HJME.O-B (0) | CO | | MAICAO | 141.17 | 0.00 | 0.00 | 0.61 | 4.813 | 39284.43g | 171.47 | 39112.96 |
| HJME.O-B (5) | CO | | MAICAO | 140.99 | 0.00 | 0.00 | 0.61 | 2.099 | 17170.39g | 168.47 | 17001.92 |
| HJME.O-B (10) | CO | | MAICAO | 140.80 | 0.00 | 0.00 | 0.61 | 1.961 | 16081.33g | 165.37 | 15915.97 |
| HJME.O-B (15) | CO | | MAICAO | 140.61 | 0.00 | 0.00 | 0.61 | 1.788 | 14694.46g | 162.11 | 14532.35 |
| HJME.O-B (20) | CO | | MAICAO | 140.40 | 0.00 | 0.00 | 0.61 | 1.842 | 15178.95g | 158.64 | 15020.31 |
| HJME.O-B (25) | CO | | MAICAO | 140.17 | 0.00 | 0.00 | 0.61 | 1.355 | 11195.43g | 154.86 | 11040.57 |
| HJME.O-B (30) | CO | | MAICAO | 140.51 | 0.00 | 0.00 | 0.60 | 1.250 | 10500.90S | 160.52 | 10340.37 |
| HJME.O-B (35) | CO | | MAICAO | 140.56 | 0.00 | 0.00 | 0.59 | 1.250 | 10577.10S | 161.20 | 10415.90 |
| HJME.O-B (40) | CO | | MAICAO | 140.49 | 0.00 | 0.00 | 0.59 | 1.250 | 10627.31S | 160.09 | 10467.22 |
| HJME.O-B (45) | CO | | MAICAO | 140.43 | 0.00 | 0.00 | 0.59 | 1.250 | 10679.59S | 159.20 | 10520.39 |
| HJME.O-B (50) | CO | | MAICAO | 140.39 | 0.00 | 0.00 | 0.58 | 1.250 | 10733.54S | 158.52 | 10575.03 |
| HJME.O-B (55) | CO | | MAICAO | 140.37 | 0.00 | 0.00 | 0.58 | 1.250 | 10788.75S | 158.05 | 10630.70 |
| HJME.O-B (60) | CO | | MAICAO | 140.35 | 0.00 | 0.00 | 0.58 | 1.250 | 10844.80S | 157.81 | 10687.00 |
| HJME.O-B (65) | CO | | MAICAO | 139.49 | 0.00 | 0.00 | 0.57 | 1.250 | 10912.36S | 143.66 | 10768.70 |
| HJME.O-B (70) | CO | | MAICAO | 139.27 | 0.00 | 0.00 | 0.57 | 1.250 | 11008.49S | 140.10 | 10868.40 |
| HJME.O-B (75) | CO | | MAICAO | 138.29 | 0.00 | 0.00 | 0.56 | 1.250 | 11188.02S | 124.81 | 11063.20 |
| HJME.O-B (80) | CO | | MAICAO | 138.52 | 0.00 | 0.00 | 0.55 | 1.250 | 11294.28S | 128.37 | 11165.91 |
| HJME.O-B (85) | CO | | MAICAO | 137.13 | 0.00 | 0.00 | 0.54 | 1.250 | 11666.03S | 107.92 | 11558.10 |
| HJME.O-B (90) | CO | | MAICAO | 138.72 | 0.00 | 0.00 | 0.54 | 1.250 | 11535.74S | 131.35 | 11404.39 |
| HJME.O-B (95) | CO | | MAICAO | 139.27 | 0.00 | 0.00 | 0.54 | 1.250 | 11548.92S | 140.10 | 11408.82 |
| HJME.O-B (100) | CO | | MAICAO | 139.67 | 0.00 | 0.00 | 0.54 | 1.250 | 11568.62S | 146.66 | 11421.97 |
| HJME.O-B (105) | CO | | MAICAO | 139.98 | 0.00 | 0.00 | 0.54 | 1.250 | 11596.74S | 151.69 | 11445.05 |
| HJME.O-B (110) | CO | | MAICAO | 140.25 | 0.00 | 0.00 | 0.54 | 1.250 | 11623.20S | 156.12 | 11467.07 |
| HJME.O-B (115) | CO | | MAICAO | 140.51 | 0.00 | 0.00 | 0.54 | 1.250 | 11640.49S | 160.40 | 11480.09 |
| HJME.O-B (120) | CO | | MAICAO | 140.76 | 0.00 | 0.00 | 0.54 | 1.250 | 11647.15S | 164.57 | 11482.58 |
| HJME.O-B (125) | CO | | MAICAO | 141.00 | 0.00 | 0.00 | 0.54 | 1.250 | 11639.67S | 168.67 | 11471.00 |

# Exhibit 17.1
## Tabulation of Proposed Nighttime Allocation

| Call Letters | Ct | St | City | Azi (deg) | Ang Low (deg) | Ang High (deg) | SWFF (100uV/m) | Req Prot (mV/m) | Permis (mV/m) | Cur Rad (mV/m) | Margin (mV/m) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HJME.O-B (130) | CO | | MAICAO | 141.20 | 0.00 | 0.00 | 0.54 | 1.250 | 11651.14S | 172.01 | 11479.14 |
| HJME.O-B (135) | CO | | MAICAO | 141.46 | 0.00 | 0.00 | 0.54 | 1.250 | 11584.10S | 176.34 | 11407.76 |
| HJME.O-B (140) | CO | | MAICAO | 141.61 | 0.00 | 0.00 | 0.54 | 1.250 | 11611.05S | 178.94 | 11432.11 |
| HJME.O-B (145) | CO | | MAICAO | 141.73 | 0.00 | 0.00 | 0.53 | 1.250 | 11742.31S | 180.91 | 11561.40 |
| HJME.O-B (150) | CO | | MAICAO | 141.95 | 0.00 | 0.00 | 0.54 | 1.250 | 11616.62S | 184.60 | 11432.03 |
| HJME.O-B (155) | CO | | MAICAO | 142.11 | 0.00 | 0.00 | 0.54 | 1.250 | 11546.19S | 187.35 | 11358.84 |
| HJME.O-B (160) | CO | | MAICAO | 142.26 | 0.00 | 0.00 | 0.54 | 1.250 | 11543.39S | 189.86 | 11353.52 |
| HJME.O-B (165) | CO | | MAICAO | 142.40 | 0.00 | 0.00 | 0.54 | 1.250 | 11535.66S | 192.36 | 11343.30 |
| HJME.O-B (170) | CO | | MAICAO | 142.55 | 0.00 | 0.00 | 0.54 | 1.250 | 11523.08S | 194.82 | 11328.26 |
| HJME.O-B (175) | CO | | MAICAO | 142.69 | 0.00 | 0.00 | 0.54 | 1.250 | 11505.72S | 197.23 | 11308.50 |
| HJME.O-B (180) | CO | | MAICAO | 142.83 | 0.00 | 0.00 | 0.54 | 1.250 | 11483.74S | 199.56 | 11284.18 |
| HJME.O-B (185) | CO | | MAICAO | 142.87 | 0.00 | 0.00 | 0.55 | 1.250 | 11398.81S | 200.33 | 11198.49 |
| HJME.O-B (190) | CO | | MAICAO | 142.84 | 0.00 | 0.00 | 0.55 | 1.250 | 11292.15S | 199.81 | 11092.35 |
| HJME.O-B (195) | CO | | MAICAO | 142.78 | 0.00 | 0.00 | 0.56 | 1.250 | 11199.13S | 198.83 | 11000.29 |
| HJME.O-B (200) | CO | | MAICAO | 142.86 | 0.00 | 0.00 | 0.56 | 1.250 | 11177.79S | 200.11 | 10977.68 |
| HJME.O-B (205) | CO | | MAICAO | 142.93 | 0.00 | 0.00 | 0.56 | 1.250 | 11154.53S | 201.35 | 10953.18 |
| HJME.O-B (210) | CO | | MAICAO | 143.00 | 0.00 | 0.00 | 0.56 | 1.250 | 11129.42S | 202.55 | 10926.87 |
| HJME.O-B (215) | CO | | MAICAO | 143.07 | 0.00 | 0.00 | 0.56 | 1.250 | 11102.51S | 203.73 | 10898.78 |
| HJME.O-B (220) | CO | | MAICAO | 143.14 | 0.00 | 0.00 | 0.56 | 1.250 | 11073.82S | 204.90 | 10868.92 |
| HJME.O-B (225) | CO | | MAICAO | 143.21 | 0.00 | 0.00 | 0.57 | 1.250 | 11043.30S | 206.10 | 10837.20 |
| HJME.O-B (230) | CO | | MAICAO | 143.27 | 0.00 | 0.00 | 0.57 | 1.250 | 11008.93S | 207.09 | 10801.84 |
| HJME.O-B (235) | CO | | MAICAO | 143.50 | 0.00 | 0.00 | 0.57 | 1.250 | 10984.58S | 210.99 | 10773.58 |
| HJME.O-B (240) | CO | | MAICAO | 143.37 | 0.00 | 0.00 | 0.57 | 1.250 | 10933.06S | 208.85 | 10724.21 |
| HJME.O-B (245) | CO | | MAICAO | 143.43 | 0.00 | 0.00 | 0.57 | 1.250 | 10891.44S | 209.76 | 10681.68 |
| HJME.O-B (250) | CO | | MAICAO | 143.49 | 0.00 | 0.00 | 0.58 | 1.250 | 10846.30S | 210.77 | 10635.53 |
| HJME.O-B (255) | CO | | MAICAO | 143.56 | 0.00 | 0.00 | 0.58 | 1.250 | 10795.82S | 212.05 | 10583.77 |
| HJME.O-B (260) | CO | | MAICAO | 143.78 | 0.00 | 0.00 | 0.58 | 1.250 | 10726.09S | 215.71 | 10510.39 |
| HJME.O-B (265) | CO | | MAICAO | 144.18 | 0.00 | 0.00 | 0.59 | 1.250 | 10615.73S | 222.62 | 10393.11 |
| HJME.O-B (270) | CO | | MAICAO | 144.73 | 0.00 | 0.00 | 0.60 | 1.250 | 10451.41S | 231.95 | 10219.46 |
| HJME.O-B (275) | CO | | MAICAO | 145.06 | 0.00 | 0.00 | 0.61 | 1.250 | 10283.59S | 237.56 | 10046.03 |
| HJME.O-B (280) | CO | | MAICAO | 145.21 | 0.00 | 0.00 | 0.62 | 1.281 | 10372.73g | 240.02 | 10132.71 |
| HJME.O-B (285) | CO | | MAICAO | 144.70 | 0.00 | 0.00 | 0.62 | 1.722 | 13931.16g | 231.46 | 13699.70 |
| HJME.O-B (290) | CO | | MAICAO | 144.29 | 0.00 | 0.00 | 0.62 | 2.249 | 18180.89g | 224.43 | 17956.47 |
| HJME.O-B (295) | CO | | MAICAO | 143.94 | 0.00 | 0.00 | 0.62 | 2.851 | 23034.14g | 218.47 | 22815.66 |
| HJME.O-B (300) | CO | | MAICAO | 143.63 | 0.00 | 0.00 | 0.62 | 3.437 | 27758.53g | 213.29 | 27545.24 |
| HJME.O-B (305) | CO | | MAICAO | 143.36 | 0.00 | 0.00 | 0.62 | 3.978 | 32117.19g | 208.68 | 31908.51 |
| HJME.O-B (310) | CO | | MAICAO | 143.12 | 0.00 | 0.00 | 0.62 | 4.461 | 36007.98g | 204.48 | 35803.50 |
| HJME.O-B (315) | CO | | MAICAO | 142.89 | 0.00 | 0.00 | 0.62 | 4.872 | 39313.11g | 200.60 | 39112.51 |
| HJME.O-B (320) | CO | | MAICAO | 142.67 | 0.00 | 0.00 | 0.62 | 5.209 | 42022.00g | 196.93 | 41825.08 |
| HJME.O-B (325) | CO | | MAICAO | 142.47 | 0.00 | 0.00 | 0.62 | 5.464 | 44072.02g | 193.41 | 43878.60 |
| HJME.O-B (330) | CO | | MAICAO | 142.26 | 0.00 | 0.00 | 0.62 | 5.634 | 45430.14g | 189.99 | 45240.15 |
| HJME.O-B (335) | CO | | MAICAO | 142.07 | 0.00 | 0.00 | 0.62 | 5.863 | 47357.70g | 186.61 | 47171.09 |
| HJME.O-B (340) | CO | | MAICAO | 141.88 | 0.00 | 0.00 | 0.62 | 6.068 | 49121.79g | 183.41 | 48938.38 |
| HJME.O-B (345) | CO | | MAICAO | 141.69 | 0.00 | 0.00 | 0.62 | 6.185 | 50172.44g | 180.34 | 49992.09 |
| HJME.O-B (350) | CO | | MAICAO | 141.52 | 0.00 | 0.00 | 0.62 | 6.209 | 50474.14g | 177.36 | 50296.78 |
| HJME.O-B (355) | CO | | MAICAO | 141.34 | 0.00 | 0.00 | 0.61 | 5.715 | 46552.64g | 174.42 | 46378.22 |
| CMAI.P-D | CU | | CONSOLACION | 152.36 | 0.00 | 0.00 | 1.52 | 3.465 | 11377.65 | 356.46 | 11021.19 |
| 50% = 6.93, 25% = 6.93; WFLA.L=6.93 | | | | | | | | | | | |
| XECJ.O/A | MX | | MC APATZINGAN | 192.16 | 0.00 | 0.00 | 3.29 | 7.952 | 12077.78 | 764.03 | 11313.75 |
| 50% = 15.904, 25% = 16.425; XEDF.O/A=15.90 XEO.O/A=4.11 | | | | | | | | | | | |
| XECJ1.P/A | MX | | MC APATZINGAN | 192.16 | 0.00 | 0.00 | 3.29 | 7.952 | 12077.78 | 764.03 | 11313.75 |
| 50% = 15.904, 25% = 16.425; XEDF.O/A=15.90 XEO.O/A=4.11 | | | | | | | | | | | |
| KSVC.L | US | UT | RICHFIELD | 241.22 | 1.81 | 5.26 | 16.05 | 3.874 | 12069.92 | 632.07 | 11437.84 |
| 50% = 14.144, 25% = 15.495; KFWB.L=10.54 KSPZ.L=9.43 KMBZ.L=4.90 KGLN.L=4.00 | | | | | | | | | | | |
| XE.P/A | MX | OA | JUCHITAN | 177.43 | 0.00 | 0.00 | 2.75 | 6.731 | 12249.32 | 659.40 | 11589.92 |
| 50% = 13.461, 25% = 14.522; XEDF.O/A=13.46 XEVT.O/A=5.45 | | | | | | | | | | | |
| KFBX.L | US | AK | FAIRBANKS | 322.29 | 0.00 | 0.00 | 0.62 | 1.690 | 13615.45 | 1645.12 | 11970.32 |
| 50% = 0.988, 25% = 1.069; 970CFXE/ =0.99 KUFO.L=0.41 | | | | | | | | | | | |

# Exhibit 17.2
# Proposed Nighttime RSS Limitations

## Licensed RSS Limitation:

Call: WDAY.L (night) Freq: 970 kHz FARGO, ND, US
Lat: 46-52-44 N Lng: 096-53-04 W Power: 5.0 kW
Theo RMS: 683.97 mV/m @ 1km @ 5.0 kW
# of Augmentations: 4

Standard: FCC Rules (1992 Skywave Propagation Model) [ 10% ]
Contributors:

| Call | Freq (kHz) | City | St | Ct | Dist (km) | Azi (deg) | Theta Min (deg) | Theta Max (deg) | Max V-Rad (mV/m) | SW Mult (uV/m) | Limit (mV/m) | (%) | RSS Limit (mV/m) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KMA.L | 0960 | SHENANDOAH | IA | US | 689.0 | 350.3 | 10.2 | 17.6 | 1446.87 | 63.13 | 1.827 | 100.0 | 1.827 | |
| XEJ.O/A | 0970 | CD.JUAREZ | CH | MX | 1871.2 | 23.2 | 0.2 | 3.1 | 639.96 | 13.09 | 1.676 | 91.7 | 2.479 | 50% |
| KQAQ.L | 0970 | AUSTIN | MN | US | 468.1 | 320.2 | 16.0 | 26.0 | 46.89 | 106.57 | 0.999 | 40.3 | 2.673 | |
| KFTA.L | 0970 | RUPERT | ID | US | 1408.8 | 64.5 | 2.7 | 6.4 | 244.91 | 17.18 | 0.842 | 31.5 | 2.802 | |
| XEDF.O/A | 0970 | IZTAPALAPA | DF | MX | 3064.1 | 3.3 | 0.0 | 0.0 | 620.80 | 6.18 | 0.767 | 27.4 | 2.905 | |
| KIXL.L | 0970 | DEL VALLE | TX | US | 1842.1 | 1.8 | 0.3 | 3.2 | 277.85 | 13.64 | 0.758 | 26.1 | 3.003 | |
| KCFO.L | 0970 | TULSA | OK | US | 1189.8 | 356.9 | 4.2 | 8.7 | 138.54 | 27.19 | 0.753 | 25.1 | 3.096 | 25% |
| KBUL.L | 0970 | BILLINGS | MT | US | 903.4 | 77.8 | 7.0 | 12.8 | 104.41 | 36.02 | 0.752 | 24.3 | 3.186 | |
| KDSJ.L | 0980 | DEADWOOD | SD | US | 595.3 | 59.8 | 12.2 | 20.5 | 496.95 | 75.21 | 0.748 | 23.5 | 3.272 | |
| KSYL.L | 0970 | ALEXANDRIA | LA | US | 1769.5 | 349.0 | 0.7 | 3.7 | 259.60 | 14.19 | 0.737 | 22.5 | 3.354 | |
| KMBZ.L | 0980 | KANSAS CITY | MO | US | 891.0 | 348.8 | 7.2 | 13.0 | 840.27 | 42.52 | 0.714 | 21.3 | 3.429 | |
| KNUU.L | 0970 | PARADISE | NV | US | 1941.1 | 45.8 | 0.0 | 2.6 | 315.22 | 11.08 | 0.698 | 20.4 | 3.500 | |
| KHVN.L | 0970 | FORT WORTH | TX | US | 1565.8 | 1.2 | 1.7 | 5.1 | 160.35 | 17.64 | 0.566 | 16.2 | 3.545 | |
| KUFO.L | 0970 | PORTLAND | OR | US | 1985.9 | 76.3 | 0.0 | 2.4 | 377.92 | 7.41 | 0.560 | 15.8 | 3.589 | |
| CJME/ | 0980 | Regina | SK | CA | 687.0 | 121.2 | 10.3 | 17.6 | 550.47 | 49.94 | 0.550 | 15.3 | 3.631 | |
| WSBT.L | 0960 | SOUTH BEND | IN | US | 1030.1 | 308.2 | 5.6 | 10.7 | 920.68 | 29.57 | 0.545 | 15.0 | 3.672 | |
| XEO.O/A | 0970 | MATAMOROS | TA | MX | 2333.5 | 1.3 | 0.0 | 0.6 | 283.22 | 9.40 | 0.533 | 14.5 | 3.710 | |
| KESP.L | 0970 | MODESTO | CA | US | 2215.3 | 54.9 | 0.0 | 1.2 | 329.49 | 8.03 | 0.529 | 14.3 | 3.748 | |
| HCOT1.O | 0970 | S DOMINGO | | EC | 5511.5 | 344.1 | 0.0 | 0.0 | 978.69 | 2.64 | 0.516 | 13.8 | 3.783 | |
| HCAW2.O | 0970 | GUAYAQUIL | | EC | 5694.0 | 345.2 | 0.0 | 0.0 | 978.69 | 2.58 | 0.504 | 13.3 | 3.816 | |
| WONE.L | 0980 | DAYTON | OH | US | 1302.1 | 312.2 | 3.4 | 7.5 | 1214.95 | 19.81 | 0.481 | 12.6 | 3.847 | |

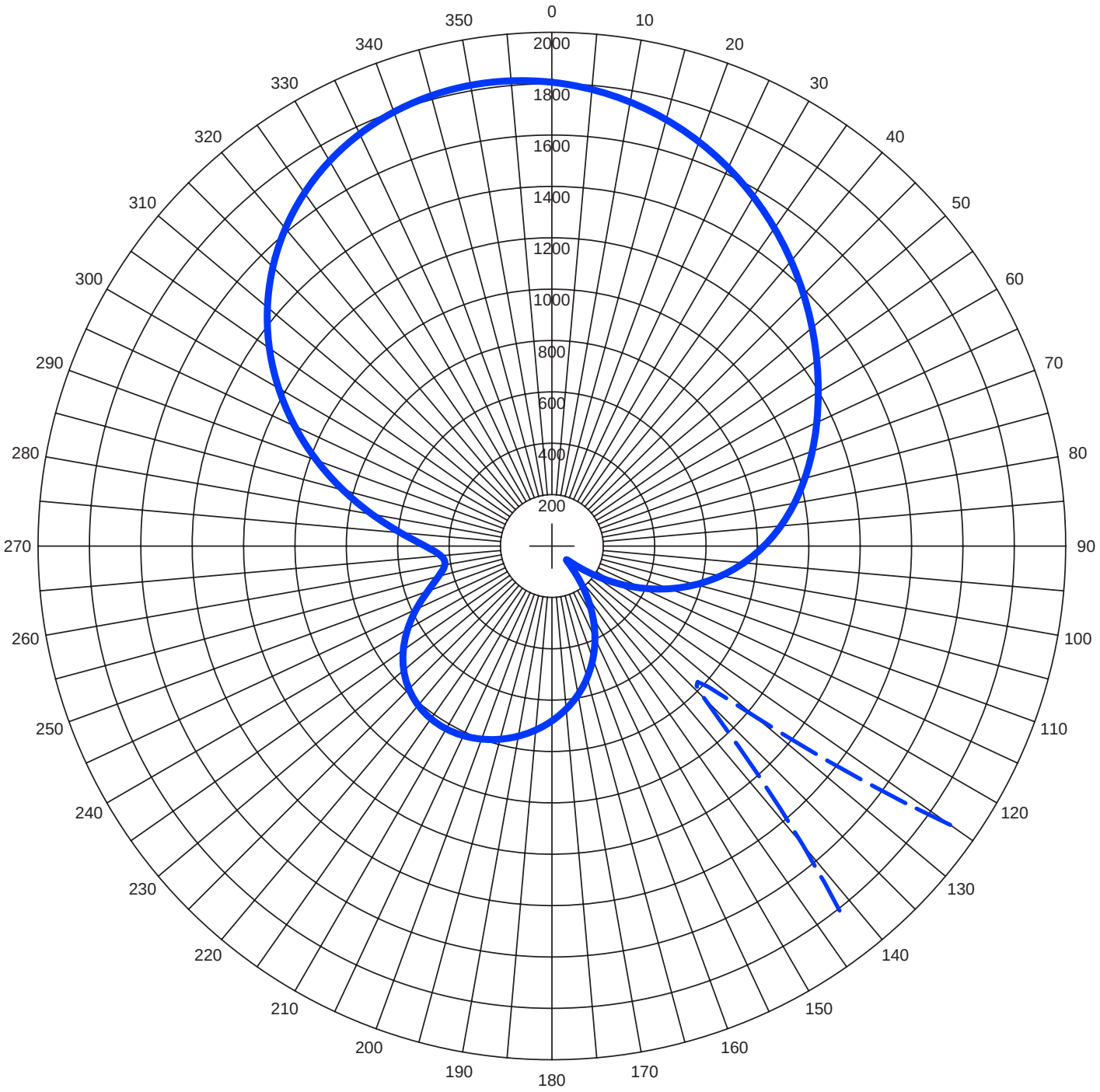
## Proposed RSS Limitation:

Call: WDAY.P (night) Freq: 970 kHz FARGO, ND, US
Hours: NIGHT Lat: 46-38-48 N Lng: 096-21-50 W
Power: 10.0 kW
Theo RMS: 1040.23 mV/m @ 1km @ 10.0 kW

Standard: FCC Rules (1992 Skywave Propagation Model) [ 10% ]
Contributors:

| Call | Freq (kHz) | City | St | Ct | Dist (km) | Azi (deg) | Theta Min (deg) | Theta Max (deg) | Max V-Rad (mV/m) | SW Mult (uV/m) | Limit (mV/m) | (%) | RSS Limit (mV/m) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KMA.L | 0960 | SHENANDOAH | IA | US | 657.2 | 353.3 | 10.9 | 18.5 | 1463.67 | 68.35 | 2.001 | 100.0 | 2.001 | |
| XEJ.O/A | 0970 | CD.JUAREZ | CH | MX | 1868.9 | 24.6 | 0.2 | 3.1 | 639.96 | 13.17 | 1.686 | 84.3 | 2.616 | 50% |
| KQAQ.L | 0970 | AUSTIN | MN | US | 422.5 | 321.9 | 17.9 | 28.5 | 38.10 | 123.31 | 0.940 | 35.9 | 2.780 | |
| KFTA.L | 0970 | RUPERT | ID | US | 1441.7 | 65.9 | 2.5 | 6.2 | 252.59 | 16.46 | 0.831 | 29.9 | 2.902 | |
| KCFO.L | 0970 | TULSA | OK | US | 1162.2 | 358.8 | 4.4 | 9.0 | 142.93 | 28.50 | 0.815 | 28.1 | 3.014 | |
| XEDF.O/A | 0970 | IZTAPALAPA | DF | MX | 3041.9 | 4.1 | 0.0 | 0.0 | 620.80 | 6.29 | 0.781 | 25.9 | 3.114 | 25% |
| KSYL.L | 0970 | ALEXANDRIA | LA | US | 1735.4 | 350.1 | 0.8 | 3.9 | 256.10 | 14.81 | 0.759 | 24.4 | 3.205 | |
| KIXL.L | 0970 | DEL VALLE | TX | US | 1818.4 | 3.1 | 0.4 | 3.4 | 266.90 | 14.05 | 0.750 | 23.4 | 3.291 | |
| KMBZ.L | 0980 | KANSAS CITY | MO | US | 857.8 | 351.0 | 7.6 | 13.6 | 818.32 | 45.58 | 0.746 | 22.7 | 3.375 | |
| KDSJ.L | 0980 | DEADWOOD | SD | US | 621.5 | 63.5 | 11.6 | 19.6 | 504.58 | 70.48 | 0.711 | 21.1 | 3.449 | |
| KNUU.L | 0970 | PARADISE | NV | US | 1961.8 | 47.1 | 0.0 | 2.5 | 322.21 | 10.87 | 0.701 | 20.3 | 3.519 | |
| KBUL.L | 0970 | BILLINGS | MT | US | 941.7 | 79.5 | 6.6 | 12.1 | 96.42 | 33.49 | 0.646 | 18.4 | 3.578 | |
| WSBT.L | 0960 | SOUTH BEND | IN | US | 982.8 | 308.1 | 6.1 | 11.4 | 915.85 | 32.50 | 0.595 | 16.6 | 3.627 | |
| KHVN.L | 0970 | FORT WORTH | TX | US | 1541.6 | 2.7 | 1.9 | 5.3 | 160.30 | 18.25 | 0.585 | 16.1 | 3.674 | |
| XEO.O/A | 0970 | MATAMOROS | TA | MX | 2309.3 | 2.3 | 0.0 | 0.7 | 283.22 | 9.64 | 0.546 | 14.9 | 3.714 | |
| KUFO.L | 0970 | PORTLAND | OR | US | 2027.9 | 76.9 | 0.0 | 2.1 | 378.08 | 7.09 | 0.536 | 14.4 | 3.753 | |
| HCOT1.O | 0970 | S DOMINGO | | EC | 5472.1 | 344.4 | 0.0 | 0.0 | 978.69 | 2.69 | 0.527 | 14.0 | 3.790 | |
| WONE.L | 0980 | DAYTON | OH | US | 1254.8 | 312.2 | 3.7 | 7.9 | 1215.21 | 21.47 | 0.522 | 13.8 | 3.826 | |

# Exhibit 17.3 - Proposed Nighttime Directional Standard Pattern




Standard Horizontal Plane Pattern

Pattern (mV/m @ 1km)
Pattern X10

| # | Field Ratio | Phase (deg) | Spacing (deg) | Orient (deg) | Height (deg) | Ref Swtch | TL Swtch | A (deg) | B (deg) | C (deg) | D (deg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.000 | 0.0 | 0.0 | 0.0 | 90.0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 | 0.300 | 132.0 | 80.0 | 135.0 | 90.0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | 0.700 | -137.0 | 100.0 | 10.0 | 90.0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |

Call: WDAY.P
Freq: 970 kHz
FARGO, ND, US
Hours: D
Lat: 46-38-48 N
Lng: 096-21-50 W
Power: 10.0 kW
Theo RMS: 1040.23 mV/m@1km
@ 10.0 kW


**MUNN-REESE, INC.**
Broadcast Engineering Consultants
COLDWATER, MI 49036

# Exhibit 17.4
## Nighttime Directional Standard Pattern 0° - 60° Vertical Degrees

AM Radiation Report

Call: WDAY.P
Freq: 970 kHz
FARGO, ND, US
Hours: N
Lat: 46-38-48 N
Lng: 096-21-50 W
Power: 10.0 kW
Theo RMS: 1040.23 mV/m @ 1km @ 10.0 kW

| # | Field Ratio | Phase (deg) | Spacing (deg) | Orient (deg) | Height (deg) | Ref Swtch | TL Swtch | A (deg) | B (deg) | C (deg) | D (deg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.000 | 0.0 | 0.0 | 0.0 | 90.0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 | 0.300 | 132.0 | 80.0 | 135.0 | 90.0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | 0.700 | -137.0 | 100.0 | 10.0 | 90.0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |

---

Standard Horizontal Plane Pattern

| Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) |
|---|---|---|---|---|---|
| 0.0 | 1805.49 | 120.0 | 287.89 | 240.0 | 648.43 |
| 5.0 | 1784.30 | 125.0 | 189.30 | 245.0 | 582.65 |
| 10.0 | 1755.01 | 130.0 | 103.40 | 250.0 | 514.80 |
| 15.0 | 1718.18 | 135.0 | 84.00 | 255.0 | 455.92 |
| 20.0 | 1674.46 | 140.0 | 152.01 | 260.0 | 423.11 |
| 25.0 | 1624.63 | 145.0 | 236.48 | 265.0 | 434.08 |
| 30.0 | 1569.62 | 150.0 | 319.22 | 270.0 | 493.64 |
| 35.0 | 1510.54 | 155.0 | 396.51 | 275.0 | 590.79 |
| 40.0 | 1448.65 | 160.0 | 467.12 | 280.0 | 710.47 |
| 45.0 | 1385.29 | 165.0 | 530.71 | 285.0 | 840.92 |
| 50.0 | 1321.70 | 170.0 | 587.33 | 290.0 | 974.10 |
| 55.0 | 1258.92 | 175.0 | 637.33 | 295.0 | 1104.45 |
| 60.0 | 1197.56 | 180.0 | 681.13 | 300.0 | 1228.12 |
| 65.0 | 1137.69 | 185.0 | 719.16 | 305.0 | 1342.38 |
| 70.0 | 1078.75 | 190.0 | 751.67 | 310.0 | 1445.40 |
| 75.0 | 1019.61 | 195.0 | 778.69 | 315.0 | 1536.06 |
| 80.0 | 958.74 | 200.0 | 799.93 | 320.0 | 1613.82 |
| 85.0 | 894.49 | 205.0 | 814.72 | 325.0 | 1678.57 |
| 90.0 | 825.34 | 210.0 | 822.09 | 330.0 | 1730.54 |
| 95.0 | 750.17 | 215.0 | 820.80 | 335.0 | 1770.19 |
| 100.0 | 668.43 | 220.0 | 809.54 | 340.0 | 1798.10 |
| 105.0 | 580.23 | 225.0 | 787.11 | 345.0 | 1814.95 |
| 110.0 | 486.32 | 230.0 | 752.66 | 350.0 | 1821.38 |
| 115.0 | 388.14 | 235.0 | 706.08 | 355.0 | 1818.03 |

# Exhibit 17.4
## Nighttime Directional Standard Pattern 0° - 60° Vertical Degrees

Standard Pattern
Calculated at 5.0 Degrees Elevation

| Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) |
|---|---|---|---|---|---|
| 0.0 | 1791.42 | 120.0 | 286.43 | 240.0 | 641.21 |
| 5.0 | 1770.46 | 125.0 | 188.68 | 245.0 | 576.15 |
| 10.0 | 1741.46 | 130.0 | 102.99 | 250.0 | 509.17 |
| 15.0 | 1704.97 | 135.0 | 81.81 | 255.0 | 451.24 |
| 20.0 | 1661.64 | 140.0 | 148.64 | 260.0 | 419.28 |
| 25.0 | 1612.24 | 145.0 | 232.31 | 265.0 | 430.71 |
| 30.0 | 1557.71 | 150.0 | 314.34 | 270.0 | 490.09 |
| 35.0 | 1499.14 | 155.0 | 391.00 | 275.0 | 586.49 |
| 40.0 | 1437.78 | 160.0 | 461.09 | 280.0 | 705.08 |
| 45.0 | 1374.94 | 165.0 | 524.23 | 285.0 | 834.30 |
| 50.0 | 1311.85 | 170.0 | 580.50 | 290.0 | 966.20 |
| 55.0 | 1249.54 | 175.0 | 630.20 | 295.0 | 1095.35 |
| 60.0 | 1188.61 | 180.0 | 673.76 | 300.0 | 1217.89 |
| 65.0 | 1129.13 | 185.0 | 711.58 | 305.0 | 1331.16 |
| 70.0 | 1070.54 | 190.0 | 743.91 | 310.0 | 1433.32 |
| 75.0 | 1011.75 | 195.0 | 770.76 | 315.0 | 1523.28 |
| 80.0 | 951.26 | 200.0 | 791.82 | 320.0 | 1600.47 |
| 85.0 | 887.44 | 205.0 | 806.46 | 325.0 | 1664.79 |
| 90.0 | 818.82 | 210.0 | 813.70 | 330.0 | 1716.45 |
| 95.0 | 744.28 | 215.0 | 812.33 | 335.0 | 1755.90 |
| 100.0 | 663.27 | 220.0 | 801.07 | 340.0 | 1783.71 |
| 105.0 | 575.90 | 225.0 | 778.73 | 345.0 | 1800.53 |
| 110.0 | 482.92 | 230.0 | 744.51 | 350.0 | 1807.02 |
| 115.0 | 385.72 | 235.0 | 698.31 | 355.0 | 1803.78 |

Standard Pattern
Calculated at 10.0 Degrees Elevation

| Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) |
|---|---|---|---|---|---|
| 0.0 | 1749.71 | 120.0 | 282.08 | 240.0 | 619.93 |
| 5.0 | 1729.44 | 125.0 | 186.85 | 245.0 | 557.00 |
| 10.0 | 1701.28 | 130.0 | 101.96 | 250.0 | 492.58 |
| 15.0 | 1665.80 | 135.0 | 75.61 | 255.0 | 437.44 |
| 20.0 | 1623.63 | 140.0 | 138.84 | 260.0 | 408.01 |
| 25.0 | 1575.53 | 145.0 | 220.15 | 265.0 | 420.77 |
| 30.0 | 1522.42 | 150.0 | 300.07 | 270.0 | 479.58 |
| 35.0 | 1465.36 | 155.0 | 374.88 | 275.0 | 573.76 |
| 40.0 | 1405.55 | 160.0 | 443.38 | 280.0 | 689.14 |
| 45.0 | 1344.26 | 165.0 | 505.21 | 285.0 | 814.71 |
| 50.0 | 1282.67 | 170.0 | 560.40 | 290.0 | 942.88 |
| 55.0 | 1221.76 | 175.0 | 609.22 | 295.0 | 1068.44 |
| 60.0 | 1162.10 | 180.0 | 652.05 | 300.0 | 1187.67 |
| 65.0 | 1103.77 | 185.0 | 689.23 | 305.0 | 1297.99 |
| 70.0 | 1046.25 | 190.0 | 720.99 | 310.0 | 1397.62 |
| 75.0 | 988.52 | 195.0 | 747.31 | 315.0 | 1485.47 |
| 80.0 | 929.15 | 200.0 | 767.87 | 320.0 | 1560.98 |
| 85.0 | 866.64 | 205.0 | 782.05 | 325.0 | 1624.00 |
| 90.0 | 799.55 | 210.0 | 788.92 | 330.0 | 1674.73 |
| 95.0 | 726.86 | 215.0 | 787.32 | 335.0 | 1713.57 |
| 100.0 | 648.02 | 220.0 | 776.05 | 340.0 | 1741.06 |
| 105.0 | 563.12 | 225.0 | 754.01 | 345.0 | 1757.82 |
| 110.0 | 472.85 | 230.0 | 720.47 | 350.0 | 1764.45 |
| 115.0 | 378.51 | 235.0 | 675.41 | 355.0 | 1761.56 |

# Exhibit 17.4
## Nighttime Directional Standard Pattern 0° - 60° Vertical Degrees

Standard Pattern
Calculated at 15.0 Degrees Elevation

| Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) |
|---|---|---|---|---|---|
| 0.0 | 1681.85 | 120.0 | 274.94 | 240.0 | 585.73 |
| 5.0 | 1662.69 | 125.0 | 183.85 | 245.0 | 526.24 |
| 10.0 | 1635.92 | 130.0 | 100.76 | 250.0 | 465.96 |
| 15.0 | 1602.08 | 135.0 | 66.51 | 255.0 | 415.33 |
| 20.0 | 1561.80 | 140.0 | 123.53 | 260.0 | 389.92 |
| 25.0 | 1515.82 | 145.0 | 201.00 | 265.0 | 404.73 |
| 30.0 | 1465.02 | 150.0 | 277.50 | 270.0 | 462.56 |
| 35.0 | 1410.42 | 155.0 | 349.28 | 275.0 | 553.12 |
| 40.0 | 1353.15 | 160.0 | 415.19 | 280.0 | 663.31 |
| 45.0 | 1294.39 | 165.0 | 474.83 | 285.0 | 783.00 |
| 50.0 | 1235.24 | 170.0 | 528.21 | 290.0 | 905.15 |
| 55.0 | 1176.61 | 175.0 | 575.55 | 295.0 | 1024.90 |
| 60.0 | 1119.04 | 180.0 | 617.13 | 300.0 | 1138.78 |
| 65.0 | 1062.61 | 185.0 | 653.23 | 305.0 | 1244.31 |
| 70.0 | 1006.86 | 190.0 | 684.02 | 310.0 | 1339.81 |
| 75.0 | 950.87 | 195.0 | 709.44 | 315.0 | 1424.21 |
| 80.0 | 893.37 | 200.0 | 729.16 | 320.0 | 1496.94 |
| 85.0 | 832.98 | 205.0 | 742.59 | 325.0 | 1557.83 |
| 90.0 | 768.40 | 210.0 | 748.85 | 330.0 | 1607.01 |
| 95.0 | 698.68 | 215.0 | 746.90 | 335.0 | 1644.82 |
| 100.0 | 623.33 | 220.0 | 735.65 | 340.0 | 1671.76 |
| 105.0 | 542.39 | 225.0 | 714.13 | 345.0 | 1688.36 |
| 110.0 | 456.47 | 230.0 | 681.73 | 350.0 | 1695.21 |
| 115.0 | 366.74 | 235.0 | 638.54 | 355.0 | 1692.86 |

Standard Pattern
Calculated at 20.0 Degrees Elevation

| Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) |
|---|---|---|---|---|---|
| 0.0 | 1590.24 | 120.0 | 265.13 | 240.0 | 540.36 |
| 5.0 | 1572.58 | 125.0 | 179.74 | 245.0 | 485.52 |
| 10.0 | 1547.68 | 130.0 | 99.88 | 250.0 | 430.79 |
| 15.0 | 1516.06 | 135.0 | 56.40 | 255.0 | 386.14 |
| 20.0 | 1478.34 | 140.0 | 104.13 | 260.0 | 365.99 |
| 25.0 | 1435.24 | 145.0 | 176.40 | 265.0 | 383.35 |
| 30.0 | 1387.57 | 150.0 | 248.27 | 270.0 | 439.71 |
| 35.0 | 1336.29 | 155.0 | 315.95 | 275.0 | 525.38 |
| 40.0 | 1282.45 | 160.0 | 378.31 | 280.0 | 628.66 |
| 45.0 | 1227.10 | 165.0 | 434.93 | 285.0 | 740.51 |
| 50.0 | 1171.26 | 170.0 | 485.79 | 290.0 | 854.64 |
| 55.0 | 1115.73 | 175.0 | 531.00 | 295.0 | 966.63 |
| 60.0 | 1061.02 | 180.0 | 570.79 | 300.0 | 1073.31 |
| 65.0 | 1007.21 | 185.0 | 605.34 | 305.0 | 1172.40 |
| 70.0 | 953.91 | 190.0 | 634.72 | 310.0 | 1262.31 |
| 75.0 | 900.35 | 195.0 | 658.86 | 315.0 | 1342.02 |
| 80.0 | 845.41 | 200.0 | 677.41 | 320.0 | 1410.94 |
| 85.0 | 787.91 | 205.0 | 689.81 | 325.0 | 1468.87 |
| 90.0 | 726.72 | 210.0 | 695.29 | 330.0 | 1515.88 |
| 95.0 | 660.98 | 215.0 | 692.91 | 335.0 | 1552.24 |
| 100.0 | 590.25 | 220.0 | 681.74 | 340.0 | 1578.36 |
| 105.0 | 514.55 | 225.0 | 660.98 | 345.0 | 1594.71 |
| 110.0 | 434.40 | 230.0 | 630.19 | 350.0 | 1601.80 |
| 115.0 | 350.77 | 235.0 | 589.57 | 355.0 | 1600.14 |

# Exhibit 17.4
## Nighttime Directional Standard Pattern 0° - 60° Vertical Degrees

Standard Pattern
Calculated at 25.0 Degrees Elevation

| Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) |
|---|---|---|---|---|---|
| 0.0 | 1478.11 | 120.0 | 252.86 | 240.0 | 486.14 |
| 5.0 | 1462.27 | 125.0 | 174.52 | 245.0 | 436.97 |
| 10.0 | 1439.65 | 130.0 | 99.62 | 250.0 | 388.95 |
| 15.0 | 1410.77 | 135.0 | 47.98 | 255.0 | 351.46 |
| 20.0 | 1376.20 | 140.0 | 82.41 | 260.0 | 337.46 |
| 25.0 | 1336.62 | 145.0 | 148.23 | 265.0 | 357.59 |
| 30.0 | 1292.80 | 150.0 | 214.44 | 270.0 | 411.95 |
| 35.0 | 1245.58 | 155.0 | 277.06 | 275.0 | 491.63 |
| 40.0 | 1195.92 | 160.0 | 334.98 | 280.0 | 586.56 |
| 45.0 | 1144.76 | 165.0 | 387.81 | 285.0 | 688.98 |
| 50.0 | 1092.98 | 170.0 | 435.42 | 290.0 | 793.45 |
| 55.0 | 1041.30 | 175.0 | 477.89 | 295.0 | 896.06 |
| 60.0 | 990.15 | 180.0 | 515.31 | 300.0 | 994.02 |
| 65.0 | 939.62 | 185.0 | 547.79 | 305.0 | 1085.25 |
| 70.0 | 889.43 | 190.0 | 575.33 | 310.0 | 1168.31 |
| 75.0 | 838.93 | 195.0 | 597.80 | 315.0 | 1242.21 |
| 80.0 | 787.22 | 200.0 | 614.86 | 320.0 | 1306.39 |
| 85.0 | 733.31 | 205.0 | 626.01 | 325.0 | 1360.60 |
| 90.0 | 676.25 | 210.0 | 630.55 | 330.0 | 1404.83 |
| 95.0 | 615.33 | 215.0 | 627.73 | 335.0 | 1439.29 |
| 100.0 | 550.15 | 220.0 | 616.76 | 340.0 | 1464.29 |
| 105.0 | 480.70 | 225.0 | 597.05 | 345.0 | 1480.23 |
| 110.0 | 407.41 | 230.0 | 568.31 | 350.0 | 1487.55 |
| 115.0 | 331.07 | 235.0 | 530.90 | 355.0 | 1486.69 |

Standard Pattern
Calculated at 30.0 Degrees Elevation

| Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) |
|---|---|---|---|---|---|
| 0.0 | 1349.35 | 120.0 | 238.34 | 240.0 | 425.73 |
| 5.0 | 1335.57 | 125.0 | 168.11 | 245.0 | 383.06 |
| 10.0 | 1315.57 | 130.0 | 99.84 | 250.0 | 342.64 |
| 15.0 | 1289.83 | 135.0 | 44.13 | 255.0 | 313.16 |
| 20.0 | 1258.88 | 140.0 | 60.42 | 260.0 | 305.80 |
| 25.0 | 1223.36 | 145.0 | 118.51 | 265.0 | 328.58 |
| 30.0 | 1183.94 | 150.0 | 178.18 | 270.0 | 380.32 |
| 35.0 | 1141.39 | 155.0 | 234.93 | 275.0 | 453.11 |
| 40.0 | 1096.54 | 160.0 | 287.66 | 280.0 | 538.62 |
| 45.0 | 1050.19 | 165.0 | 335.96 | 285.0 | 630.43 |
| 50.0 | 1003.09 | 170.0 | 379.67 | 290.0 | 724.01 |
| 55.0 | 955.87 | 175.0 | 418.76 | 295.0 | 816.04 |
| 60.0 | 908.89 | 180.0 | 453.26 | 300.0 | 904.08 |
| 65.0 | 862.26 | 185.0 | 483.17 | 305.0 | 986.35 |
| 70.0 | 815.77 | 190.0 | 508.43 | 310.0 | 1061.51 |
| 75.0 | 768.93 | 195.0 | 528.86 | 315.0 | 1128.69 |
| 80.0 | 721.04 | 200.0 | 544.16 | 320.0 | 1187.31 |
| 85.0 | 671.31 | 205.0 | 553.86 | 325.0 | 1237.10 |
| 90.0 | 619.01 | 210.0 | 557.41 | 330.0 | 1277.99 |
| 95.0 | 563.54 | 215.0 | 554.18 | 335.0 | 1310.11 |
| 100.0 | 504.58 | 220.0 | 543.58 | 340.0 | 1333.69 |
| 105.0 | 442.12 | 225.0 | 525.21 | 345.0 | 1349.03 |
| 110.0 | 376.46 | 230.0 | 498.97 | 350.0 | 1356.49 |
| 115.0 | 308.22 | 235.0 | 465.34 | 355.0 | 1356.46 |

# Exhibit 17.4
## Nighttime Directional Standard Pattern 0° - 60° Vertical Degrees

Standard Pattern
Calculated at 35.0 Degrees Elevation

| Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) |
|---|---|---|---|---|---|
| 0.0 | 1208.36 | 120.0 | 221.87 | 240.0 | 362.00 |
| 5.0 | 1196.78 | 125.0 | 160.41 | 245.0 | 326.43 |
| 10.0 | 1179.62 | 130.0 | 100.03 | 250.0 | 294.24 |
| 15.0 | 1157.30 | 135.0 | 45.78 | 255.0 | 273.22 |
| 20.0 | 1130.32 | 140.0 | 40.58 | 260.0 | 272.53 |
| 25.0 | 1099.22 | 145.0 | 89.19 | 265.0 | 297.51 |
| 30.0 | 1064.61 | 150.0 | 141.59 | 270.0 | 345.96 |
| 35.0 | 1027.16 | 155.0 | 191.82 | 275.0 | 411.17 |
| 40.0 | 987.55 | 160.0 | 238.73 | 280.0 | 486.55 |
| 45.0 | 946.47 | 165.0 | 281.90 | 285.0 | 567.02 |
| 50.0 | 904.53 | 170.0 | 321.11 | 290.0 | 648.94 |
| 55.0 | 862.25 | 175.0 | 356.27 | 295.0 | 729.59 |
| 60.0 | 819.94 | 180.0 | 387.31 | 300.0 | 806.94 |
| 65.0 | 777.72 | 185.0 | 414.18 | 305.0 | 879.45 |
| 70.0 | 735.46 | 190.0 | 436.76 | 310.0 | 945.98 |
| 75.0 | 692.80 | 195.0 | 454.86 | 315.0 | 1005.71 |
| 80.0 | 649.24 | 200.0 | 468.17 | 320.0 | 1058.12 |
| 85.0 | 604.21 | 205.0 | 476.32 | 325.0 | 1102.91 |
| 90.0 | 557.13 | 210.0 | 478.87 | 330.0 | 1139.96 |
| 95.0 | 507.56 | 215.0 | 475.34 | 335.0 | 1169.33 |
| 100.0 | 455.25 | 220.0 | 465.33 | 340.0 | 1191.16 |
| 105.0 | 400.18 | 225.0 | 448.61 | 345.0 | 1205.67 |
| 110.0 | 342.58 | 230.0 | 425.27 | 350.0 | 1213.16 |
| 115.0 | 282.91 | 235.0 | 395.90 | 355.0 | 1213.94 |

Standard Pattern
Calculated at 40.0 Degrees Elevation

| Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) |
|---|---|---|---|---|---|
| 0.0 | 1059.81 | 120.0 | 203.79 | 240.0 | 297.88 |
| 5.0 | 1050.48 | 125.0 | 151.35 | 245.0 | 269.80 |
| 10.0 | 1036.25 | 130.0 | 99.53 | 250.0 | 246.14 |
| 15.0 | 1017.50 | 135.0 | 50.78 | 255.0 | 233.64 |
| 20.0 | 994.65 | 140.0 | 26.64 | 260.0 | 239.16 |
| 25.0 | 968.19 | 145.0 | 62.00 | 265.0 | 265.55 |
| 30.0 | 938.62 | 150.0 | 106.48 | 270.0 | 310.01 |
| 35.0 | 906.50 | 155.0 | 149.71 | 275.0 | 367.18 |
| 40.0 | 872.39 | 160.0 | 190.36 | 280.0 | 432.09 |
| 45.0 | 836.84 | 165.0 | 227.92 | 285.0 | 500.93 |
| 50.0 | 800.36 | 170.0 | 262.16 | 290.0 | 570.88 |
| 55.0 | 763.36 | 175.0 | 292.93 | 295.0 | 639.80 |
| 60.0 | 726.10 | 180.0 | 320.09 | 300.0 | 706.07 |
| 65.0 | 688.69 | 185.0 | 343.54 | 305.0 | 768.40 |
| 70.0 | 651.08 | 190.0 | 363.13 | 310.0 | 825.84 |
| 75.0 | 613.04 | 195.0 | 378.66 | 315.0 | 877.67 |
| 80.0 | 574.24 | 200.0 | 389.86 | 320.0 | 923.40 |
| 85.0 | 534.26 | 205.0 | 396.44 | 325.0 | 962.75 |
| 90.0 | 492.72 | 210.0 | 398.07 | 330.0 | 995.55 |
| 95.0 | 449.31 | 215.0 | 394.41 | 335.0 | 1021.80 |
| 100.0 | 403.85 | 220.0 | 385.24 | 340.0 | 1041.58 |
| 105.0 | 356.31 | 225.0 | 370.49 | 345.0 | 1055.04 |
| 110.0 | 306.87 | 230.0 | 350.39 | 350.0 | 1062.39 |
| 115.0 | 255.86 | 235.0 | 325.68 | 355.0 | 1063.88 |

# Exhibit 17.4
## Nighttime Directional Standard Pattern 0° - 60° Vertical Degrees

Standard Pattern
Calculated at 45.0 Degrees Elevation

| Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) |
|---|---|---|---|---|---|
| 0.0 | 908.45 | 120.0 | 184.53 | 240.0 | 236.21 |
| 5.0 | 901.30 | 125.0 | 140.95 | 245.0 | 215.81 |
| 10.0 | 889.96 | 130.0 | 97.78 | 250.0 | 200.70 |
| 15.0 | 874.77 | 135.0 | 56.32 | 255.0 | 196.29 |
| 20.0 | 856.07 | 140.0 | 23.97 | 260.0 | 207.06 |
| 25.0 | 834.26 | 145.0 | 38.61 | 265.0 | 233.77 |
| 30.0 | 809.76 | 150.0 | 74.26 | 270.0 | 273.57 |
| 35.0 | 783.01 | 155.0 | 110.20 | 275.0 | 322.45 |
| 40.0 | 754.46 | 160.0 | 144.31 | 280.0 | 376.90 |
| 45.0 | 724.54 | 165.0 | 176.00 | 285.0 | 434.21 |
| 50.0 | 693.64 | 170.0 | 204.97 | 290.0 | 492.31 |
| 55.0 | 662.08 | 175.0 | 231.03 | 295.0 | 549.59 |
| 60.0 | 630.09 | 180.0 | 254.03 | 300.0 | 604.78 |
| 65.0 | 597.78 | 185.0 | 273.82 | 305.0 | 656.88 |
| 70.0 | 565.13 | 190.0 | 290.23 | 310.0 | 705.09 |
| 75.0 | 532.03 | 195.0 | 303.09 | 315.0 | 748.83 |
| 80.0 | 498.27 | 200.0 | 312.17 | 320.0 | 787.65 |
| 85.0 | 463.60 | 205.0 | 317.25 | 325.0 | 821.28 |
| 90.0 | 427.79 | 210.0 | 318.11 | 330.0 | 849.55 |
| 95.0 | 390.62 | 215.0 | 314.55 | 335.0 | 872.41 |
| 100.0 | 351.98 | 220.0 | 306.49 | 340.0 | 889.87 |
| 105.0 | 311.87 | 225.0 | 294.00 | 345.0 | 902.04 |
| 110.0 | 270.41 | 230.0 | 277.44 | 350.0 | 909.06 |
| 115.0 | 227.84 | 235.0 | 257.66 | 355.0 | 911.12 |

Standard Pattern
Calculated at 50.0 Degrees Elevation

| Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) |
|---|---|---|---|---|---|
| 0.0 | 758.85 | 120.0 | 164.57 | 240.0 | 179.73 |
| 5.0 | 753.71 | 125.0 | 129.38 | 245.0 | 167.01 |
| 10.0 | 745.11 | 130.0 | 94.49 | 250.0 | 160.10 |
| 15.0 | 733.31 | 135.0 | 60.65 | 255.0 | 162.82 |
| 20.0 | 718.60 | 140.0 | 30.27 | 260.0 | 177.34 |
| 25.0 | 701.29 | 145.0 | 21.87 | 265.0 | 203.07 |
| 30.0 | 681.69 | 150.0 | 46.09 | 270.0 | 237.58 |
| 35.0 | 660.16 | 155.0 | 74.48 | 275.0 | 278.15 |
| 40.0 | 637.04 | 160.0 | 101.99 | 280.0 | 322.47 |
| 45.0 | 612.64 | 165.0 | 127.73 | 285.0 | 368.73 |
| 50.0 | 587.27 | 170.0 | 151.34 | 290.0 | 415.48 |
| 55.0 | 561.17 | 175.0 | 172.60 | 295.0 | 461.58 |
| 60.0 | 534.52 | 180.0 | 191.34 | 300.0 | 506.09 |
| 65.0 | 507.42 | 185.0 | 207.39 | 305.0 | 548.24 |
| 70.0 | 479.91 | 190.0 | 220.61 | 310.0 | 587.42 |
| 75.0 | 451.93 | 195.0 | 230.83 | 315.0 | 623.14 |
| 80.0 | 423.38 | 200.0 | 237.90 | 320.0 | 655.05 |
| 85.0 | 394.14 | 205.0 | 241.66 | 325.0 | 682.88 |
| 90.0 | 364.08 | 210.0 | 241.98 | 330.0 | 706.48 |
| 95.0 | 333.07 | 215.0 | 238.78 | 335.0 | 725.77 |
| 100.0 | 301.07 | 220.0 | 232.10 | 340.0 | 740.72 |
| 105.0 | 268.09 | 225.0 | 222.14 | 345.0 | 751.40 |
| 110.0 | 234.22 | 230.0 | 209.37 | 350.0 | 757.88 |
| 115.0 | 199.63 | 235.0 | 194.70 | 355.0 | 760.31 |

# Exhibit 17.4
## Nighttime Directional Standard Pattern 0° - 60° Vertical Degrees

Standard Pattern
Calculated at 55.0 Degrees Elevation

| Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) |
|---|---|---|---|---|---|
| 0.0 | 615.26 | 120.0 | 144.45 | 240.0 | 131.08 |
| 5.0 | 611.86 | 125.0 | 116.93 | 245.0 | 125.78 |
| 10.0 | 605.71 | 130.0 | 89.67 | 250.0 | 126.21 |
| 15.0 | 597.01 | 135.0 | 63.09 | 255.0 | 134.38 |
| 20.0 | 585.97 | 140.0 | 38.07 | 260.0 | 150.69 |
| 25.0 | 572.82 | 145.0 | 18.88 | 265.0 | 174.07 |
| 30.0 | 557.80 | 150.0 | 23.78 | 270.0 | 202.82 |
| 35.0 | 541.16 | 155.0 | 43.62 | 275.0 | 235.28 |
| 40.0 | 523.15 | 160.0 | 64.55 | 280.0 | 270.07 |
| 45.0 | 504.00 | 165.0 | 84.47 | 285.0 | 306.05 |
| 50.0 | 483.94 | 170.0 | 102.84 | 290.0 | 342.29 |
| 55.0 | 463.13 | 175.0 | 119.41 | 295.0 | 378.00 |
| 60.0 | 441.72 | 180.0 | 134.00 | 300.0 | 412.54 |
| 65.0 | 419.80 | 185.0 | 146.44 | 305.0 | 445.35 |
| 70.0 | 397.43 | 190.0 | 156.62 | 310.0 | 475.98 |
| 75.0 | 374.61 | 195.0 | 164.41 | 315.0 | 504.04 |
| 80.0 | 351.30 | 200.0 | 169.70 | 320.0 | 529.27 |
| 85.0 | 327.46 | 205.0 | 172.40 | 325.0 | 551.44 |
| 90.0 | 303.04 | 210.0 | 172.47 | 330.0 | 570.39 |
| 95.0 | 278.00 | 215.0 | 169.94 | 335.0 | 586.06 |
| 100.0 | 252.32 | 220.0 | 164.93 | 340.0 | 598.40 |
| 105.0 | 226.02 | 225.0 | 157.74 | 345.0 | 607.42 |
| 110.0 | 199.19 | 230.0 | 148.96 | 350.0 | 613.17 |
| 115.0 | 171.94 | 235.0 | 139.55 | 355.0 | 615.74 |

Standard Pattern
Calculated at 60.0 Degrees Elevation

| Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) | Azimuth (Deg) | Field (mV/m @1km) |
|---|---|---|---|---|---|
| 0.0 | 481.35 | 120.0 | 124.63 | 240.0 | 92.91 |
| 5.0 | 479.36 | 125.0 | 103.96 | 245.0 | 94.23 |
| 10.0 | 475.28 | 130.0 | 83.53 | 250.0 | 100.24 |
| 15.0 | 469.26 | 135.0 | 63.56 | 255.0 | 111.39 |
| 20.0 | 461.44 | 140.0 | 44.42 | 260.0 | 127.29 |
| 25.0 | 451.99 | 145.0 | 27.00 | 265.0 | 147.09 |
| 30.0 | 441.06 | 150.0 | 15.35 | 270.0 | 169.81 |
| 35.0 | 428.83 | 155.0 | 20.03 | 275.0 | 194.59 |
| 40.0 | 415.47 | 160.0 | 33.44 | 280.0 | 220.67 |
| 45.0 | 401.14 | 165.0 | 47.62 | 285.0 | 247.40 |
| 50.0 | 385.99 | 170.0 | 61.02 | 290.0 | 274.21 |
| 55.0 | 370.15 | 175.0 | 73.20 | 295.0 | 300.61 |
| 60.0 | 353.72 | 180.0 | 83.93 | 300.0 | 326.17 |
| 65.0 | 336.79 | 185.0 | 93.09 | 305.0 | 350.52 |
| 70.0 | 319.41 | 190.0 | 100.55 | 310.0 | 373.33 |
| 75.0 | 301.61 | 195.0 | 106.24 | 315.0 | 394.35 |
| 80.0 | 283.41 | 200.0 | 110.10 | 320.0 | 413.35 |
| 85.0 | 264.81 | 205.0 | 112.10 | 325.0 | 430.18 |
| 90.0 | 245.80 | 210.0 | 112.29 | 330.0 | 444.70 |
| 95.0 | 226.39 | 215.0 | 110.76 | 335.0 | 456.83 |
| 100.0 | 206.59 | 220.0 | 107.74 | 340.0 | 466.54 |
| 105.0 | 186.44 | 225.0 | 103.62 | 345.0 | 473.81 |
| 110.0 | 166.01 | 230.0 | 99.05 | 350.0 | 478.66 |
| 115.0 | 145.36 | 235.0 | 95.03 | 355.0 | 481.15 |