

KTCI-DT CHANNEL 23

ST. PAUL, MINNESOTA

TABULATION OF RELATIVE FIELD FOR DIRECTIONAL ANTENNA

<u>AZIMUTH</u>	<u>RELATIVE FIELD</u>	<u>AZIMUTH</u>	<u>RELATIVE FIELD</u>
N000°E	0.680	N180°E	0.697
N010°E	0.670	N190°E	0.694
N020°E	0.670	N200°E	0.871
N030°E	0.670	N210°E	0.985
N040°E	0.670	N220°E	0.882
N050°E	0.670	N230°E	0.691
N060°E	0.695	N240°E	0.720
N070°E	0.715	N250°E	0.905
N080°E	0.774	N260°E	0.885
N090°E	0.845	N270°E	0.697
N100°E	0.930	N280°E	0.694
N110°E	0.972	N290°E	0.871
N120°E	0.995	N300°E	0.976
N130°E	0.882	N310°E	0.998
N140°E	0.691	N320°E	0.943
N150°E	0.720	N330°E	0.845
N160°E	0.905	N340°E	0.765
N170°E	0.885	N350°E	0.715

MAXIMUM RELATIVE FIELD OF 1.000 AT N305°E
MINIMUM RELATIVE FIELD OF 0.670 AT N010°E - N050°E

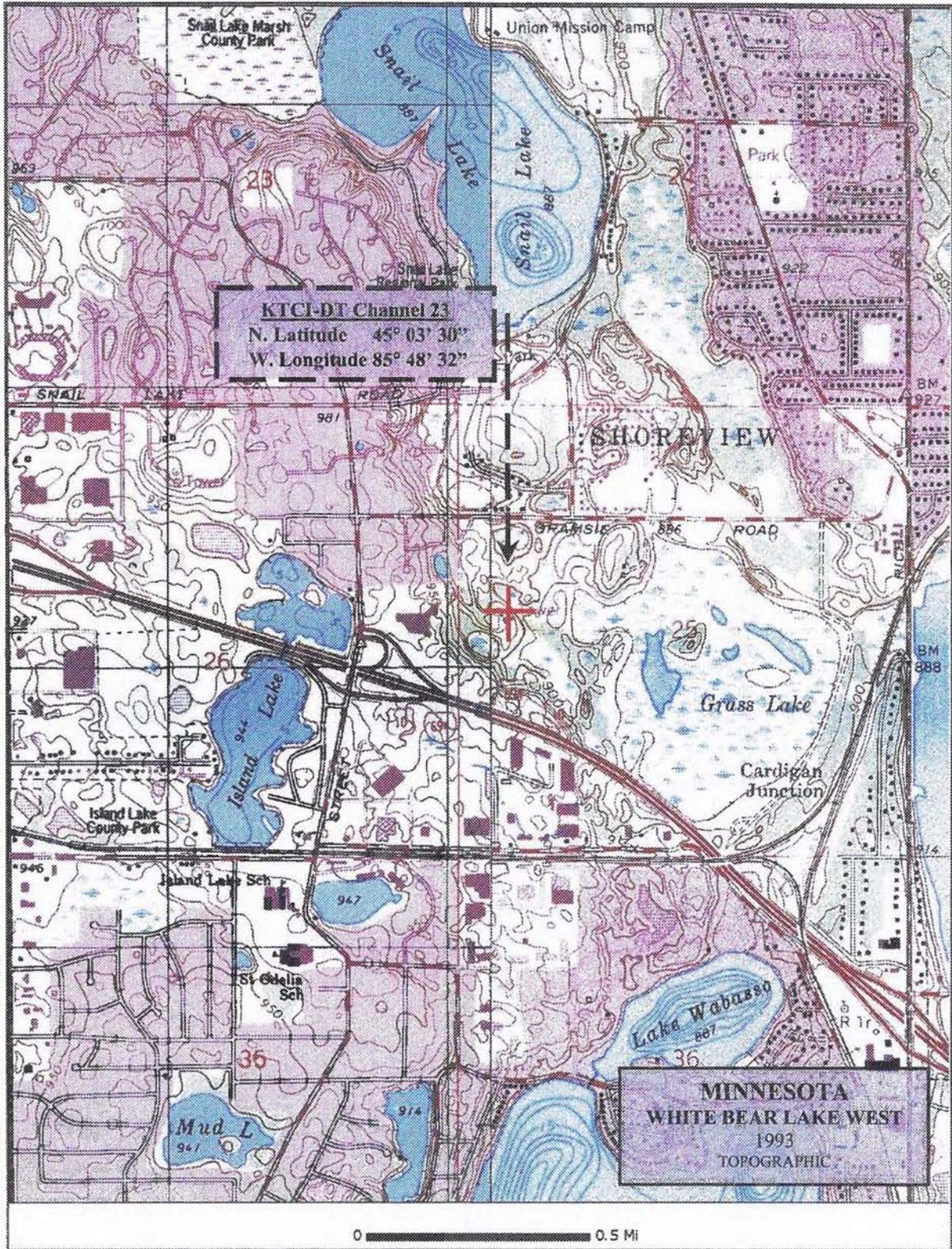
KESSLER AND GEHMAN
TELECOMMUNICATIONS CONSULTING ENGINEERS
507 N.W. 60th Street, Suite C
Gainesville, Florida 32607

KTCI-DT CHANNEL 23

ST. PAUL, MINNESOTA

20090417

EXHIBIT 8



KESSLER AND GEHMAN

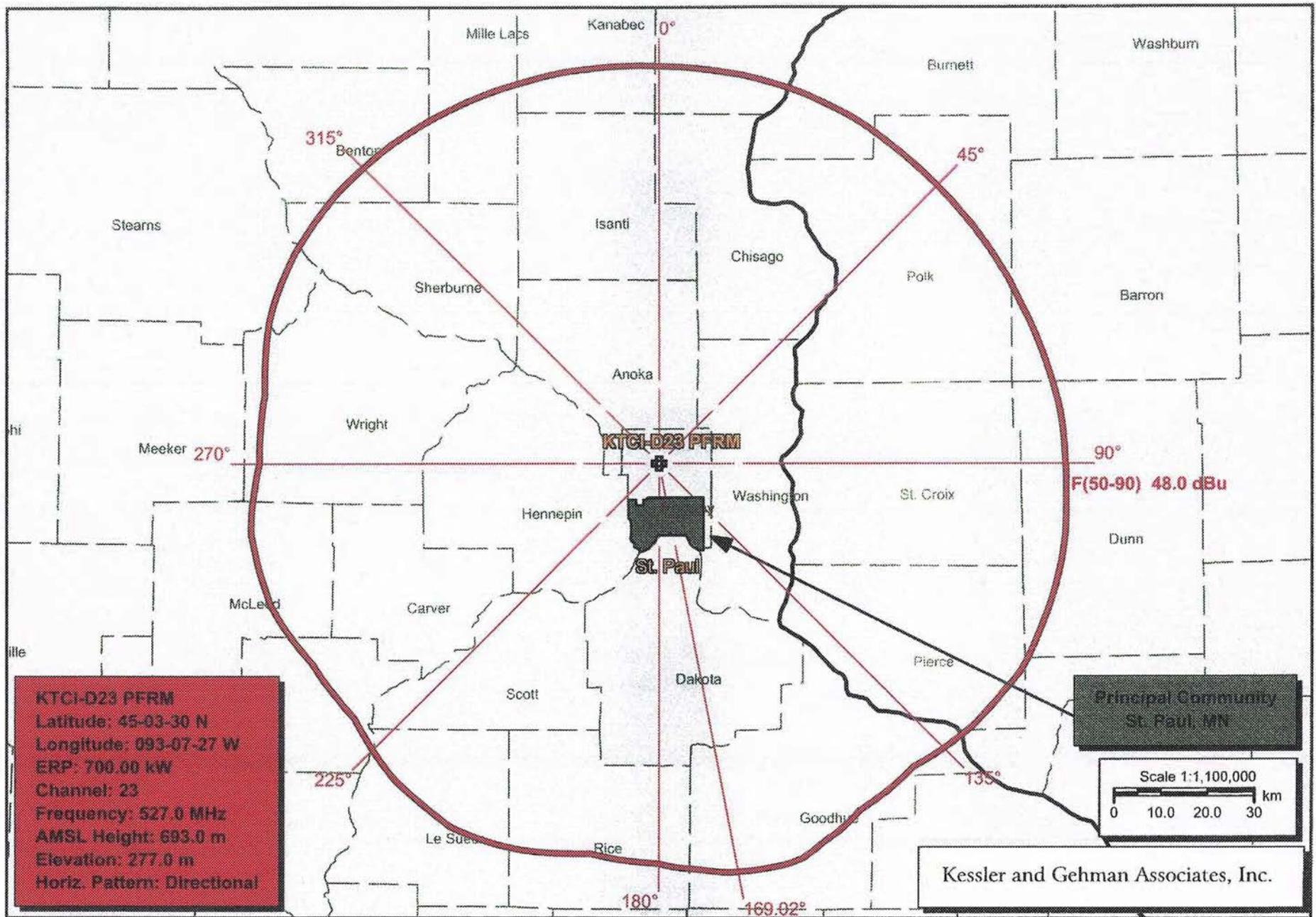
TELECOMMUNICATIONS CONSULTING ENGINEERS
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KTCI-DT CHANNEL 23

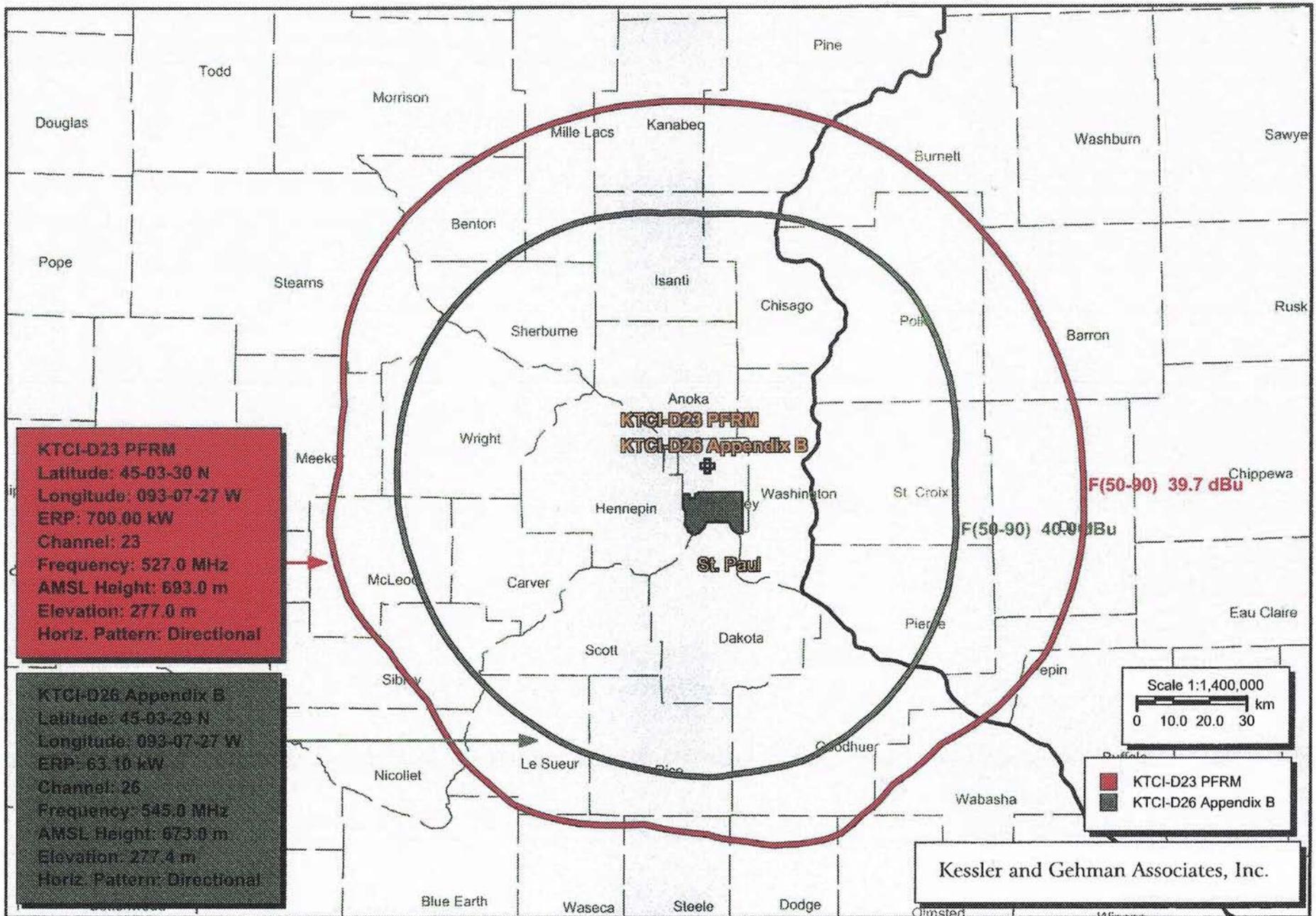
ST. PAUL, MINNESOTA

20090417

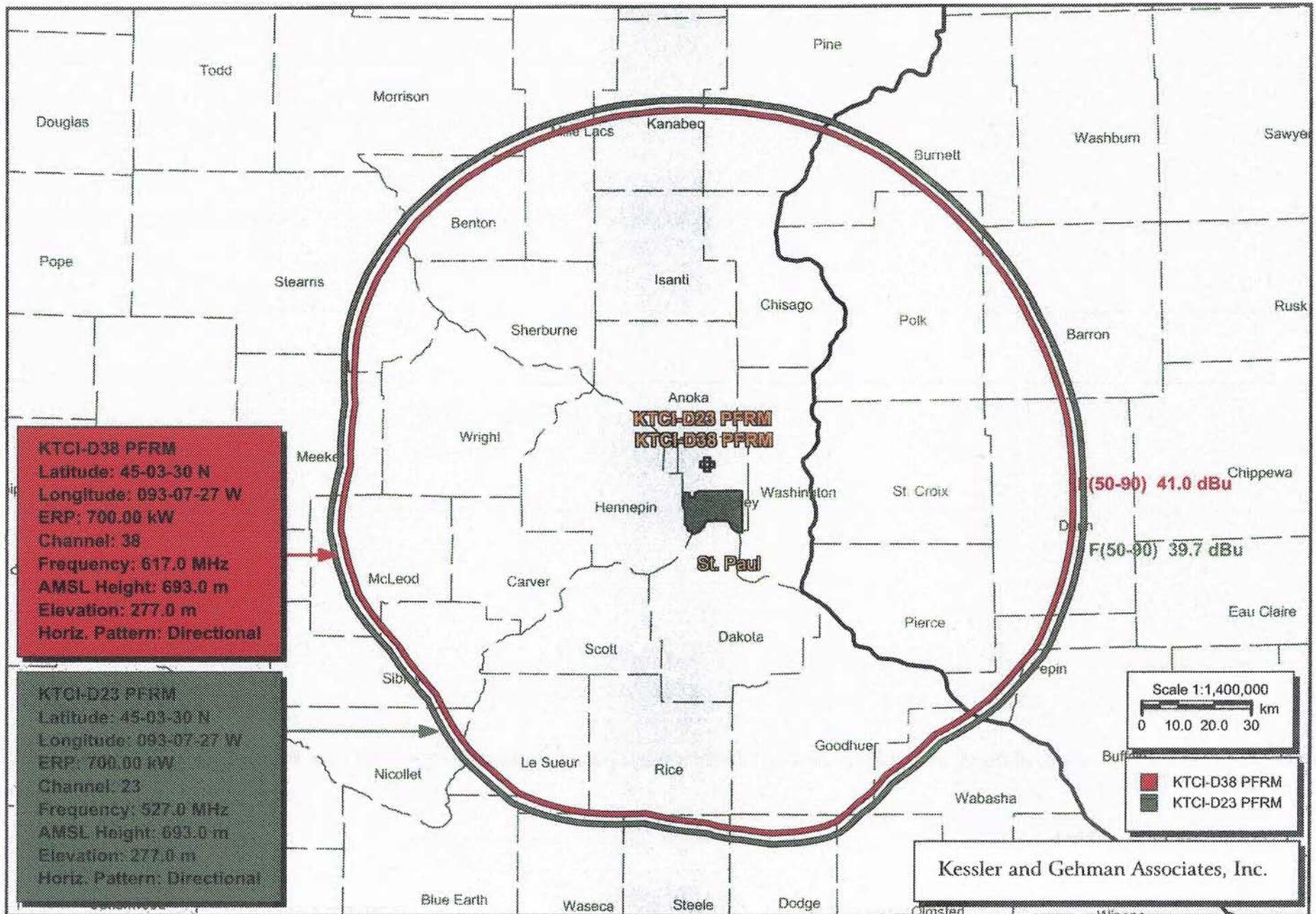
EXHIBIT 9



KTCI-DT Channel 23 F(50,90) 48.0 dBuV/m Principal Community Contour



KTCI-D26 Appendix B (green) vs. KTCI-D23 PFRM



KTCI-D38 PFRM (red) vs. KTCI-D23 PFRM (green)

Percent allowed new interference: 0.500
Percent allowed new interference to Class A: 0.500
Census data selected 2000
Post Transition Data Base Selected ./data_files/pt_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 04-20-2009 Time: 12:48:48

Record Selected for Analysis

KTCI-D23 USERRECORD-01 ST. PAUL MN US
Channel 23 ERP 700. kW HAAT 413. m RCAMSL 00693 m
Latitude 045-03-30 Longitude 0093-07-27
Status APP Zone 2 Border
Dir Antenna Make usr Model USRPAT01 Beam tilt N Ref Azimuth 0.
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	323.680	414.1	96.9
45.0	314.230	406.3	96.2
90.0	499.818	397.8	99.5
135.0	433.008	406.6	98.9
180.0	340.066	426.6	98.2
225.0	433.008	417.7	99.7
270.0	340.066	420.4	97.7
315.0	659.309	412.7	103.2

Evaluation toward Class A Stations

Contour overlap to Class A station
KQEG-CA 23 LA CRESCENT MN BLTTA 20040602ABA
D/U ratio at contour 29.59 dB
Offset Proposed Offset Class A - Required D/U ratio: 34.0
Radial 0.0 degrees
Bearing to point on contour 128.3 degrees
D/U ratio at contour 29.65 dB
Radial 1.0 degrees
Bearing to point on contour 128.2 degrees

D/U ratio at contour 29.70 dB
Radial 2.0 degrees
Bearing to point on contour 128.1 degrees
D/U ratio at contour 29.76 dB
Radial 3.0 degrees
Bearing to point on contour 128.0 degrees
D/U ratio at contour 29.82 dB
Radial 4.0 degrees
Bearing to point on contour 127.9 degrees
D/U ratio at contour 29.88 dB
Radial 5.0 degrees
Bearing to point on contour 127.8 degrees
D/U ratio at contour 29.94 dB
Radial 6.0 degrees
Bearing to point on contour 127.7 degrees
D/U ratio at contour 30.00 dB
Radial 7.0 degrees
Bearing to point on contour 127.6 degrees
D/U ratio at contour 30.07 dB
Radial 8.0 degrees
Bearing to point on contour 127.5 degrees
D/U ratio at contour 30.13 dB
Radial 9.0 degrees
Bearing to point on contour 127.5 degrees
D/U ratio at contour 30.21 dB
Radial 10.0 degrees
Bearing to point on contour 127.4 degrees
D/U ratio at contour 30.27 dB
Radial 11.0 degrees
Bearing to point on contour 127.3 degrees
D/U ratio at contour 30.34 dB
Radial 12.0 degrees
Bearing to point on contour 127.3 degrees
D/U ratio at contour 30.41 dB
Radial 13.0 degrees
Bearing to point on contour 127.2 degrees
D/U ratio at contour 30.48 dB
Radial 14.0 degrees
Bearing to point on contour 127.1 degrees
D/U ratio at contour 30.56 dB
Radial 15.0 degrees
Bearing to point on contour 127.1 degrees
D/U ratio at contour 30.63 dB
Radial 16.0 degrees
Bearing to point on contour 127.0 degrees
D/U ratio at contour 30.71 dB
Radial 17.0 degrees
Bearing to point on contour 126.9 degrees
D/U ratio at contour 30.78 dB
Radial 18.0 degrees
Bearing to point on contour 126.9 degrees
D/U ratio at contour 30.86 dB
Radial 19.0 degrees
Bearing to point on contour 126.8 degrees
D/U ratio at contour 30.94 dB
Radial 20.0 degrees
Bearing to point on contour 126.8 degrees

D/U ratio at contour 31.03 dB
Radial 21.0 degrees
Bearing to point on contour 126.8 degrees
D/U ratio at contour 31.11 dB
Radial 22.0 degrees
Bearing to point on contour 126.7 degrees
D/U ratio at contour 31.19 dB
Radial 23.0 degrees
Bearing to point on contour 126.7 degrees
D/U ratio at contour 31.28 dB
Radial 24.0 degrees
Bearing to point on contour 126.7 degrees
D/U ratio at contour 31.36 dB
Radial 25.0 degrees
Bearing to point on contour 126.7 degrees
D/U ratio at contour 31.44 dB
Radial 26.0 degrees
Bearing to point on contour 126.6 degrees
D/U ratio at contour 31.52 dB
Radial 27.0 degrees
Bearing to point on contour 126.6 degrees
D/U ratio at contour 31.60 dB
Radial 28.0 degrees
Bearing to point on contour 126.6 degrees
D/U ratio at contour 31.68 dB
Radial 29.0 degrees
Bearing to point on contour 126.5 degrees
D/U ratio at contour 31.77 dB
Radial 30.0 degrees
Bearing to point on contour 126.5 degrees
D/U ratio at contour 31.85 dB
Radial 31.0 degrees
Bearing to point on contour 126.5 degrees
D/U ratio at contour 31.94 dB
Radial 32.0 degrees
Bearing to point on contour 126.5 degrees
D/U ratio at contour 32.04 dB
Radial 33.0 degrees
Bearing to point on contour 126.6 degrees
D/U ratio at contour 32.14 dB
Radial 34.0 degrees
Bearing to point on contour 126.7 degrees
D/U ratio at contour 32.23 dB
Radial 35.0 degrees
Bearing to point on contour 126.7 degrees
D/U ratio at contour 32.31 dB
Radial 36.0 degrees
Bearing to point on contour 126.7 degrees
D/U ratio at contour 32.40 dB
Radial 37.0 degrees
Bearing to point on contour 126.8 degrees
D/U ratio at contour 32.49 dB
Radial 38.0 degrees
Bearing to point on contour 126.8 degrees
D/U ratio at contour 32.57 dB
Radial 39.0 degrees
Bearing to point on contour 126.8 degrees

D/U ratio at contour 32.66 dB
Radial 40.0 degrees
Bearing to point on contour 126.9 degrees
D/U ratio at contour 32.74 dB
Radial 41.0 degrees
Bearing to point on contour 126.9 degrees
D/U ratio at contour 32.83 dB
Radial 42.0 degrees
Bearing to point on contour 126.9 degrees
D/U ratio at contour 32.91 dB
Radial 43.0 degrees
Bearing to point on contour 126.9 degrees
D/U ratio at contour 33.00 dB
Radial 44.0 degrees
Bearing to point on contour 127.0 degrees
D/U ratio at contour 33.08 dB
Radial 45.0 degrees
Bearing to point on contour 127.1 degrees
D/U ratio at contour 33.16 dB
Radial 46.0 degrees
Bearing to point on contour 127.1 degrees
D/U ratio at contour 33.24 dB
Radial 47.0 degrees
Bearing to point on contour 127.2 degrees
D/U ratio at contour 33.32 dB
Radial 48.0 degrees
Bearing to point on contour 127.2 degrees
D/U ratio at contour 33.40 dB
Radial 49.0 degrees
Bearing to point on contour 127.3 degrees
D/U ratio at contour 33.48 dB
Radial 50.0 degrees
Bearing to point on contour 127.4 degrees
D/U ratio at contour 33.56 dB
Radial 51.0 degrees
Bearing to point on contour 127.5 degrees
D/U ratio at contour 33.64 dB
Radial 52.0 degrees
Bearing to point on contour 127.5 degrees
D/U ratio at contour 33.71 dB
Radial 53.0 degrees
Bearing to point on contour 127.6 degrees
D/U ratio at contour 33.79 dB
Radial 54.0 degrees
Bearing to point on contour 127.6 degrees
D/U ratio at contour 33.87 dB
Radial 55.0 degrees
Bearing to point on contour 127.6 degrees
D/U ratio at contour 33.95 dB
Radial 56.0 degrees
Bearing to point on contour 127.6 degrees
D/U ratio at contour 33.99 dB
Radial 241.0 degrees
Bearing to point on contour 136.2 degrees
D/U ratio at contour 33.98 dB
Radial 242.0 degrees
Bearing to point on contour 136.3 degrees

D/U ratio at contour 33.96 dB
Radial 243.0 degrees
Bearing to point on contour 136.4 degrees
D/U ratio at contour 33.94 dB
Radial 244.0 degrees
Bearing to point on contour 136.4 degrees
D/U ratio at contour 33.91 dB
Radial 245.0 degrees
Bearing to point on contour 136.5 degrees
D/U ratio at contour 33.89 dB
Radial 246.0 degrees
Bearing to point on contour 136.6 degrees
D/U ratio at contour 33.87 dB
Radial 247.0 degrees
Bearing to point on contour 136.7 degrees
D/U ratio at contour 33.84 dB
Radial 248.0 degrees
Bearing to point on contour 136.7 degrees
D/U ratio at contour 33.81 dB
Radial 249.0 degrees
Bearing to point on contour 136.8 degrees
D/U ratio at contour 33.78 dB
Radial 250.0 degrees
Bearing to point on contour 136.8 degrees
D/U ratio at contour 33.75 dB
Radial 251.0 degrees
Bearing to point on contour 136.9 degrees
D/U ratio at contour 33.71 dB
Radial 252.0 degrees
Bearing to point on contour 137.0 degrees
D/U ratio at contour 33.67 dB
Radial 253.0 degrees
Bearing to point on contour 137.1 degrees
D/U ratio at contour 33.62 dB
Radial 254.0 degrees
Bearing to point on contour 137.2 degrees
D/U ratio at contour 33.58 dB
Radial 255.0 degrees
Bearing to point on contour 137.3 degrees
D/U ratio at contour 33.53 dB
Radial 256.0 degrees
Bearing to point on contour 137.4 degrees
D/U ratio at contour 33.49 dB
Radial 257.0 degrees
Bearing to point on contour 137.4 degrees
D/U ratio at contour 33.45 dB
Radial 258.0 degrees
Bearing to point on contour 137.4 degrees
D/U ratio at contour 33.41 dB
Radial 259.0 degrees
Bearing to point on contour 137.5 degrees
D/U ratio at contour 33.36 dB
Radial 260.0 degrees
Bearing to point on contour 137.5 degrees
D/U ratio at contour 33.31 dB
Radial 261.0 degrees
Bearing to point on contour 137.5 degrees

D/U ratio at contour 33.25 dB
Radial 262.0 degrees
Bearing to point on contour 137.6 degrees
D/U ratio at contour 33.19 dB
Radial 263.0 degrees
Bearing to point on contour 137.7 degrees
D/U ratio at contour 33.13 dB
Radial 264.0 degrees
Bearing to point on contour 137.7 degrees
D/U ratio at contour 33.05 dB
Radial 265.0 degrees
Bearing to point on contour 137.8 degrees
D/U ratio at contour 32.99 dB
Radial 266.0 degrees
Bearing to point on contour 137.9 degrees
D/U ratio at contour 32.94 dB
Radial 267.0 degrees
Bearing to point on contour 137.8 degrees
D/U ratio at contour 32.88 dB
Radial 268.0 degrees
Bearing to point on contour 137.8 degrees
D/U ratio at contour 32.81 dB
Radial 269.0 degrees
Bearing to point on contour 137.9 degrees
D/U ratio at contour 32.73 dB
Radial 270.0 degrees
Bearing to point on contour 137.9 degrees
D/U ratio at contour 32.65 dB
Radial 271.0 degrees
Bearing to point on contour 138.0 degrees
D/U ratio at contour 32.57 dB
Radial 272.0 degrees
Bearing to point on contour 138.0 degrees
D/U ratio at contour 32.50 dB
Radial 273.0 degrees
Bearing to point on contour 138.0 degrees
D/U ratio at contour 32.43 dB
Radial 274.0 degrees
Bearing to point on contour 138.0 degrees
D/U ratio at contour 32.36 dB
Radial 275.0 degrees
Bearing to point on contour 138.0 degrees
D/U ratio at contour 32.26 dB
Radial 276.0 degrees
Bearing to point on contour 138.0 degrees
D/U ratio at contour 32.17 dB
Radial 277.0 degrees
Bearing to point on contour 138.0 degrees
D/U ratio at contour 32.06 dB
Radial 278.0 degrees
Bearing to point on contour 138.1 degrees
D/U ratio at contour 31.95 dB
Radial 279.0 degrees
Bearing to point on contour 138.1 degrees
D/U ratio at contour 31.84 dB
Radial 280.0 degrees
Bearing to point on contour 138.1 degrees

D/U ratio at contour 31.76 dB
Radial 281.0 degrees
Bearing to point on contour 138.1 degrees
D/U ratio at contour 31.68 dB
Radial 282.0 degrees
Bearing to point on contour 138.1 degrees
D/U ratio at contour 31.60 dB
Radial 283.0 degrees
Bearing to point on contour 138.0 degrees
D/U ratio at contour 31.55 dB
Radial 284.0 degrees
Bearing to point on contour 137.9 degrees
D/U ratio at contour 31.47 dB
Radial 285.0 degrees
Bearing to point on contour 137.9 degrees
D/U ratio at contour 31.38 dB
Radial 286.0 degrees
Bearing to point on contour 137.8 degrees
D/U ratio at contour 31.28 dB
Radial 287.0 degrees
Bearing to point on contour 137.8 degrees
D/U ratio at contour 31.21 dB
Radial 288.0 degrees
Bearing to point on contour 137.7 degrees
D/U ratio at contour 31.15 dB
Radial 289.0 degrees
Bearing to point on contour 137.6 degrees
D/U ratio at contour 31.10 dB
Radial 290.0 degrees
Bearing to point on contour 137.5 degrees
D/U ratio at contour 31.05 dB
Radial 291.0 degrees
Bearing to point on contour 137.4 degrees
D/U ratio at contour 31.02 dB
Radial 292.0 degrees
Bearing to point on contour 137.3 degrees
D/U ratio at contour 30.98 dB
Radial 293.0 degrees
Bearing to point on contour 137.1 degrees
D/U ratio at contour 30.95 dB
Radial 294.0 degrees
Bearing to point on contour 137.0 degrees
D/U ratio at contour 30.92 dB
Radial 295.0 degrees
Bearing to point on contour 136.9 degrees
D/U ratio at contour 30.91 dB
Radial 296.0 degrees
Bearing to point on contour 136.7 degrees
D/U ratio at contour 30.91 dB
Radial 297.0 degrees
Bearing to point on contour 136.6 degrees
D/U ratio at contour 30.85 dB
Radial 298.0 degrees
Bearing to point on contour 136.5 degrees
D/U ratio at contour 30.78 dB
Radial 299.0 degrees
Bearing to point on contour 136.4 degrees

D/U ratio at contour 30.75 dB
Radial 300.0 degrees
Bearing to point on contour 136.3 degrees
D/U ratio at contour 30.70 dB
Radial 301.0 degrees
Bearing to point on contour 136.2 degrees
D/U ratio at contour 30.62 dB
Radial 302.0 degrees
Bearing to point on contour 136.1 degrees
D/U ratio at contour 30.57 dB
Radial 303.0 degrees
Bearing to point on contour 136.0 degrees
D/U ratio at contour 30.54 dB
Radial 304.0 degrees
Bearing to point on contour 135.9 degrees
D/U ratio at contour 30.50 dB
Radial 305.0 degrees
Bearing to point on contour 135.7 degrees
D/U ratio at contour 30.46 dB
Radial 306.0 degrees
Bearing to point on contour 135.6 degrees
D/U ratio at contour 30.41 dB
Radial 307.0 degrees
Bearing to point on contour 135.5 degrees
D/U ratio at contour 30.37 dB
Radial 308.0 degrees
Bearing to point on contour 135.4 degrees
D/U ratio at contour 30.33 dB
Radial 309.0 degrees
Bearing to point on contour 135.3 degrees
D/U ratio at contour 30.28 dB
Radial 310.0 degrees
Bearing to point on contour 135.2 degrees
D/U ratio at contour 30.20 dB
Radial 311.0 degrees
Bearing to point on contour 135.1 degrees
D/U ratio at contour 30.14 dB
Radial 312.0 degrees
Bearing to point on contour 134.9 degrees
D/U ratio at contour 30.11 dB
Radial 313.0 degrees
Bearing to point on contour 134.8 degrees
D/U ratio at contour 30.14 dB
Radial 314.0 degrees
Bearing to point on contour 134.7 degrees
D/U ratio at contour 30.10 dB
Radial 315.0 degrees
Bearing to point on contour 134.6 degrees
D/U ratio at contour 30.03 dB
Radial 316.0 degrees
Bearing to point on contour 134.4 degrees
D/U ratio at contour 29.95 dB
Radial 317.0 degrees
Bearing to point on contour 134.3 degrees
D/U ratio at contour 29.85 dB
Radial 318.0 degrees
Bearing to point on contour 134.2 degrees

D/U ratio at contour 29.79 dB
Radial 319.0 degrees
Bearing to point on contour 134.0 degrees
D/U ratio at contour 29.75 dB
Radial 320.0 degrees
Bearing to point on contour 133.9 degrees
D/U ratio at contour 29.72 dB
Radial 321.0 degrees
Bearing to point on contour 133.8 degrees
D/U ratio at contour 29.69 dB
Radial 322.0 degrees
Bearing to point on contour 133.6 degrees
D/U ratio at contour 29.67 dB
Radial 323.0 degrees
Bearing to point on contour 133.5 degrees
D/U ratio at contour 29.59 dB
Radial 324.0 degrees
Bearing to point on contour 133.4 degrees
D/U ratio at contour 29.50 dB
Radial 325.0 degrees
Bearing to point on contour 133.2 degrees
D/U ratio at contour 29.45 dB
Radial 326.0 degrees
Bearing to point on contour 133.1 degrees
D/U ratio at contour 29.42 dB
Radial 327.0 degrees
Bearing to point on contour 132.9 degrees
D/U ratio at contour 29.46 dB
Radial 328.0 degrees
Bearing to point on contour 132.8 degrees
D/U ratio at contour 29.49 dB
Radial 329.0 degrees
Bearing to point on contour 132.7 degrees
D/U ratio at contour 29.49 dB
Radial 330.0 degrees
Bearing to point on contour 132.5 degrees
D/U ratio at contour 29.49 dB
Radial 331.0 degrees
Bearing to point on contour 132.4 degrees
D/U ratio at contour 29.48 dB
Radial 332.0 degrees
Bearing to point on contour 132.3 degrees
D/U ratio at contour 29.44 dB
Radial 333.0 degrees
Bearing to point on contour 132.1 degrees
D/U ratio at contour 29.39 dB
Radial 334.0 degrees
Bearing to point on contour 132.0 degrees
D/U ratio at contour 29.37 dB
Radial 335.0 degrees
Bearing to point on contour 131.8 degrees
D/U ratio at contour 29.36 dB
Radial 336.0 degrees
Bearing to point on contour 131.7 degrees
D/U ratio at contour 29.37 dB
Radial 337.0 degrees
Bearing to point on contour 131.6 degrees

D/U ratio at contour 29.36 dB
Radial 338.0 degrees
Bearing to point on contour 131.4 degrees
D/U ratio at contour 29.34 dB
Radial 339.0 degrees
Bearing to point on contour 131.3 degrees
D/U ratio at contour 29.38 dB
Radial 340.0 degrees
Bearing to point on contour 131.2 degrees
D/U ratio at contour 29.44 dB
Radial 341.0 degrees
Bearing to point on contour 131.1 degrees
D/U ratio at contour 29.46 dB
Radial 342.0 degrees
Bearing to point on contour 131.0 degrees
D/U ratio at contour 29.42 dB
Radial 343.0 degrees
Bearing to point on contour 130.8 degrees
D/U ratio at contour 29.43 dB
Radial 344.0 degrees
Bearing to point on contour 130.7 degrees
D/U ratio at contour 29.47 dB
Radial 345.0 degrees
Bearing to point on contour 130.6 degrees
D/U ratio at contour 29.52 dB
Radial 346.0 degrees
Bearing to point on contour 130.5 degrees
D/U ratio at contour 29.54 dB
Radial 347.0 degrees
Bearing to point on contour 130.4 degrees
D/U ratio at contour 29.55 dB
Radial 348.0 degrees
Bearing to point on contour 130.2 degrees
D/U ratio at contour 29.56 dB
Radial 349.0 degrees
Bearing to point on contour 130.1 degrees
D/U ratio at contour 29.56 dB
Radial 350.0 degrees
Bearing to point on contour 130.0 degrees
D/U ratio at contour 29.52 dB
Radial 351.0 degrees
Bearing to point on contour 129.7 degrees
D/U ratio at contour 29.48 dB
Radial 352.0 degrees
Bearing to point on contour 129.5 degrees
D/U ratio at contour 29.45 dB
Radial 353.0 degrees
Bearing to point on contour 129.3 degrees
D/U ratio at contour 29.43 dB
Radial 354.0 degrees
Bearing to point on contour 129.1 degrees
D/U ratio at contour 29.44 dB
Radial 355.0 degrees
Bearing to point on contour 128.9 degrees
D/U ratio at contour 29.47 dB
Radial 356.0 degrees
Bearing to point on contour 128.8 degrees

D/U ratio at contour 29.51 dB
Radial 357.0 degrees
Bearing to point on contour 128.7 degrees
D/U ratio at contour 29.52 dB
Radial 358.0 degrees
Bearing to point on contour 128.5 degrees
D/U ratio at contour 29.54 dB
Radial 359.0 degrees
Bearing to point on contour 128.4 degrees

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

KTCI-D23 23 ST. PAUL MN USERRECORD01

and station

SHORT TO: WUCW 23 MINNEAPOLIS MN BLCT 20030401AXI
045-03-44 0093-08-21
Req. separation 244.6 Actual separation 1.3 Short 243.3 km

LANDMOBILE SPACING VIOLATIONS FOUND

NONE

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is within the Canadian coordination distance
Distance to border = 353.7km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
23	KTCI-D23	ST. PAUL MN	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
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22	WUCW	MINNEAPOLIS MN	1.3	CP	BPCDT	-19991027ADG
22	WUCW	MINNEAPOLIS MN	1.3	PLN	DTVPLN	-DTVP0803
23	KCWI-TV	AMES IA	361.0	PLN	DTVPLN	-DTVP0836
23	KCWI-TV	AMES IA	361.0	CP	BPCDT	-20080314ABC
23	KQEG-CA	LA CRESCENT MN	205.5	LIC	BLTTA	-20040602ABA
23	WBAY-TV	GREEN BAY WI	410.8	LIC	BMLCDT	-20040723ADS
23	WBAY-TV	GREEN BAY WI	410.8	PLN	DTVPLN	-DTVP0861
23	W23BW	MADISON WI	366.7	APP	BPTTA	-20030326AHF
23	W23BW	MADISON WI	366.7	LIC	BLTTA	-20031125AAQ

%%%

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
22	WUCW	MINNEAPOLIS MN	BPCDT	-19991027ADG

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
22	KWWF	WATERLOO IA	307.9	PLN	DTVPLN	-DTVP0794
22	KWWF	WATERLOO IA	306.7	CP	BPCDT	-20080807AAL
23	KTCI-D23	ST. PAUL MN	1.3	APP	USERRECORD	-01

Total scenarios = 2

Result key: 1
Scenario 1 Affected station 1
Before Analysis

Results for: 22A MN MINNEAPOLIS BPCDT 19991027ADG CP

HAAT 410.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3322149	33871.8
not affected by terrain losses	3311463	33392.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	915	24.2
lost to ATV IX only	915	24.2
lost to all IX	915	24.2

Potential Interfering Stations Included in above Scenario 1

22A IA WATERLOO DTVPLN DTVP0794 PLN

After Analysis

Results for: 22A MN MINNEAPOLIS BPCDT 19991027ADG CP

HAAT 410.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3322149	33871.8
not affected by terrain losses	3311463	33392.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4737	76.6

lost to ATV IX only 4737 76.6
lost to all IX 4737 76.6

Potential Interfering Stations Included in above Scenario 1

22A IA WATERLOO DTVPLN DTVP0794 PLN
23A MN ST. PAUL USERRECORD01 APP

Percent new IX = 0.1154%

Result key: 2
Scenario 2 Affected station 1
Before Analysis

Results for: 22A MN MINNEAPOLIS BPCDT 19991027ADG CP
HAAT 410.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3322149	33871.8
not affected by terrain losses	3311463	33392.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	596	20.2
lost to ATV IX only	596	20.2
lost to all IX	596	20.2

Potential Interfering Stations Included in above Scenario 2

22A IA WATERLOO BPCDT 20080807AAL CP

After Analysis

Results for: 22A MN MINNEAPOLIS BPCDT 19991027ADG CP
HAAT 410.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3322149	33871.8
not affected by terrain losses	3311463	33392.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4418	72.6
lost to ATV IX only	4418	72.6
lost to all IX	4418	72.6

Potential Interfering Stations Included in above Scenario 2

22A IA WATERLOO BPCDT 20080807AAL CP
23A MN ST. PAUL USERRECORD01 APP

Percent new IX = 0.1154%

Worst case new IX 0.1154% Scenario 1

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Analysis of Interference to Affected Station 2

Analysis of current record
Channel Call City/State Application Ref. No.

22 WUCW MINNEAPOLIS MN DTVPLN -DTVP0803

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
22	KWWF	WATERLOO IA	307.9	PLN	DTVPLN	-DTVP0794
22	KWWF	WATERLOO IA	306.7	CP	BPCDT	-20080807AAL
23	KTCI-D23	ST. PAUL MN	1.3	APP	USERRECORD-01	

Total scenarios = 2

Result key: 3
Scenario 1 Affected station 2
Before Analysis

Results for: 22A MN MINNEAPOLIS DTVPLN DTVP0803 PLN
HAAT 410.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3322149	33871.8
not affected by terrain losses	3311463	33392.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	915	24.2
lost to ATV IX only	915	24.2
lost to all IX	915	24.2

Potential Interfering Stations Included in above Scenario 1

22A IA WATERLOO DTVPLN DTVP0794 PLN

After Analysis

Results for: 22A MN MINNEAPOLIS DTVPLN DTVP0803 PLN
HAAT 410.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3322149	33871.8
not affected by terrain losses	3311463	33392.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4737	76.6
lost to ATV IX only	4737	76.6
lost to all IX	4737	76.6

Potential Interfering Stations Included in above Scenario 1

22A IA WATERLOO DTVPLN DTVP0794 PLN
23A MN ST. PAUL USERRECORD01 APP

Percent new IX = 0.1154%

Result key: 4
Scenario 2 Affected station 2
Before Analysis

Results for: 22A MN MINNEAPOLIS DTVPLN DTVP0803 PLN
HAAT 410.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3322149	33871.8

not affected by terrain losses	3311463	33392.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	596	20.2
lost to ATV IX only	596	20.2
lost to all IX	596	20.2

Potential Interfering Stations Included in above Scenario 2

22A IA WATERLOO BPCDT 20080807AAL CP

After Analysis

Results for: 22A MN MINNEAPOLIS DTVPLN DTVP0803 PLN
 HAAT 410.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3322149	33871.8
not affected by terrain losses	3311463	33392.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4418	72.6
lost to ATV IX only	4418	72.6
lost to all IX	4418	72.6

Potential Interfering Stations Included in above Scenario 2

22A IA WATERLOO BPCDT 20080807AAL CP
 23A MN ST. PAUL USERRECORD01 APP

Percent new IX = 0.1154%

Worst case new IX 0.1154% Scenario 1

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.
23	KCWI-TV	AMES IA	DTVPLN -DTVP0836

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
22	KWWF	WATERLOO IA	147.5	PLN	DTVPLN -DTVP0794
22	KWWF	WATERLOO IA	141.6	CP	BPCDT -20080807AAL
22	WOWT-TV	OMAHA NE	208.6	CP	BPCDT -20080611AAC
22	WOWT-TV	OMAHA NE	208.6	PLN	DTVPLN -DTVP0809
22	WOWT-TV	OMAHA NE	208.6	LIC	BLCDT -20050706AAA
23	WQPT-TV	MOLINE IL	275.2	LIC	BLEDT -20030702AAR
23	WQPT-TV	MOLINE IL	275.2	PLN	DTVPLN -DTVP0838
23	KTCI-D23	ST. PAUL MN	361.0	APP	USERRECORD-01

Total scenarios = 2

Result key: 5

Scenario 1 Affected station 3
Before Analysis

Results for: 23A IA AMES DTVPLN DTVP0836 PLN
HAAT 613.0 m, ATV ERP 245.6 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	954312	38663.3
not affected by terrain losses	953109	38526.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	135	16.1
lost to ATV IX only	135	16.1
lost to all IX	135	16.1

Potential Interfering Stations Included in above Scenario 1

23A IL MOLINE BLEDT 20030702AAR LIC

After Analysis

Results for: 23A IA AMES DTVPLN DTVP0836 PLN
HAAT 613.0 m, ATV ERP 245.6 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	954312	38663.3
not affected by terrain losses	953109	38526.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	143	28.1
lost to ATV IX only	143	28.1
lost to all IX	143	28.1

Potential Interfering Stations Included in above Scenario 1

23A IL MOLINE BLEDT 20030702AAR LIC
23A MN ST. PAUL USERRECORD01 APP

Percent new IX = 0.0008%

Result key: 6
Scenario 2 Affected station 3
Before Analysis

Results for: 23A IA AMES DTVPLN DTVP0836 PLN
HAAT 613.0 m, ATV ERP 245.6 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	954312	38663.3
not affected by terrain losses	953109	38526.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	135	16.1
lost to ATV IX only	135	16.1
lost to all IX	135	16.1

Potential Interfering Stations Included in above Scenario 2

23A IL MOLINE DTVPLN DTVP0838 PLN

After Analysis

Results for: 23A IA AMES DTVPLN DTVP0836 PLN

HAAT 613.0 m, ATV ERP 245.6 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	954312	38663.3
not affected by terrain losses	953109	38526.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	143	28.1
lost to ATV IX only	143	28.1
lost to all IX	143	28.1

Potential Interfering Stations Included in above Scenario 2

23A IL MOLINE	DTVPLN	DTVP0838	PLN
23A MN ST. PAUL	USERRECORD01		APP

Percent new IX = 0.0008%

Worst case new IX 0.0008% Scenario 1

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
23	KCWI-TV	AMES IA	BPCDT	-20080314ABC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist (km)	Status	Application	Ref. No.
22	KWWF	WATERLOO IA	147.5	PLN	DTVPLN	-DTVP0794
22	KWWF	WATERLOO IA	141.6	CP	BPCDT	-20080807AAL
22	WOWT-TV	OMAHA NE	208.7	CP	BPCDT	-20080611AAC
22	WOWT-TV	OMAHA NE	208.7	PLN	DTVPLN	-DTVP0809
22	WOWT-TV	OMAHA NE	208.7	LIC	BLCDT	-20050706AAA
23	WQPT-TV	MOLINE IL	275.1	LIC	BLEDT	-20030702AAR
23	WQPT-TV	MOLINE IL	275.1	PLN	DTVPLN	-DTVP0838
23	KTCI-D23	ST. PAUL MN	361.0	APP	USERRECORD-01	

Total scenarios = 2

Result key: 7
 Scenario 1 Affected station 4
 Before Analysis

Results for: 23A IA AMES BPCDT 20080314ABC CP

HAAT 610.0 m, ATV ERP 246.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	954673	38679.0
not affected by terrain losses	953051	38538.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	120	36.2
lost to ATV IX only	120	36.2
lost to all IX	120	36.2

Potential Interfering Stations Included in above Scenario 1

22A IA WATERLOO	BPCDT	20080807AAL	CP
23A IL MOLINE	BLEDT	20030702AAR	LIC

After Analysis

Results for: 23A IA AMES BPCDT 20080314ABC CP
HAAT 610.0 m, ATV ERP 246.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	954673	38679.0
not affected by terrain losses	953051	38538.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	154	44.2
lost to ATV IX only	154	44.2
lost to all IX	154	44.2

Potential Interfering Stations Included in above Scenario 1

22A IA WATERLOO	BPCDT	20080807AAL	CP
23A IL MOLINE	BLEDT	20030702AAR	LIC
23A MN ST. PAUL	USERRECORD01		APP

Percent new IX = 0.0036%

Result key: 8
Scenario 2 Affected station 4
Before Analysis

Results for: 23A IA AMES BPCDT 20080314ABC CP
HAAT 610.0 m, ATV ERP 246.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	954673	38679.0
not affected by terrain losses	953051	38538.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	120	36.2
lost to ATV IX only	120	36.2
lost to all IX	120	36.2

Potential Interfering Stations Included in above Scenario 2

22A IA WATERLOO	BPCDT	20080807AAL	CP
23A IL MOLINE	DTVPLN	DTVP0838	PLN

After Analysis

Results for: 23A IA AMES BPCDT 20080314ABC CP
HAAT 610.0 m, ATV ERP 246.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	954673	38679.0
not affected by terrain losses	953051	38538.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	154	44.2
lost to ATV IX only	154	44.2
lost to all IX	154	44.2

Potential Interfering Stations Included in above Scenario 2

22A IA WATERLOO BPCDT 20080807AAL CP
 23A IL MOLINE DTVPLN DTVP0838 PLN
 23A MN ST. PAUL USERRECORD01 APP

Percent new IX = 0.0036%

Worst case new IX 0.0036% Scenario 1

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
23	KQEG-CA	LA CRESCENT MN	BLTTA	-20040602ABA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	WQOW-TV	EAU CLAIRE WI	117.7	CP MOD	BMPCDT	-20041001AOM
15	WQOW-TV	EAU CLAIRE WI	117.7	PLN	DTVPLN	-DTVP0552
20	KSMQ-TV	AUSTIN MN	99.4	CP MOD	BMPEDT	-20081114AAX
20	KSMQ-TV	AUSTIN MN	99.4	PLN	DTVPLN	-DTVP0724
23	KCWI-TV	AMES IA	285.0	LIC	BLCT	-20010130ABE
23	KCWI-TV	AMES IA	285.0	PLN	DTVPLN	-DTVP0836
23	KCWI-TV	AMES IA	284.9	CP	BPCDT	-20080314ABC
23	KCWI-TV	AMES IA	285.0	APP	BSTA	-20081103AAT
23	WQPT-TV	MOLINE IL	281.0	LIC	BLEDT	-20030702AAR
23	WQPT-TV	MOLINE IL	281.0	PLN	DTVPLN	-DTVP0838
23	WUCW	MINNEAPOLIS MN	206.7	LIC	BLCT	-20030401AXI
23	WBAY-TV	GREEN BAY WI	273.2	LIC	BMLCDT	-20040723ADS
23	WBAY-TV	GREEN BAY WI	273.2	PLN	DTVPLN	-DTVP0861
23	W23BW	MADISON WI	166.0	APP	BPTTA	-20030326AHF
23	W23BW	MADISON WI	166.0	LIC	BLTTA	-20031125AAQ
24	KYIN	MASON CITY IA	130.5	LIC	BLET	-19860923KJ
30	WHLA-TV	LA CROSSE WI	8.5	LIC	BMLEDT	-20041013AAL
30	WHLA-TV	LA CROSSE WI	8.5	PLN	DTVPLN	-DTVP1121
23	KTCI-D23	ST. PAUL MN	205.5	APP	USERRECORD-01	

Total scenarios = 2

Result key: 9
 Scenario 1 Affected station 5
 Before Analysis

Results for: 23N MN LA CRESCENT	BLTTA	20040602ABA	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	116985	1593.6	
not affected by terrain losses	112725	1344.1	
lost to NTSC IX	624	76.5	
lost to additional IX by ATV	0	0.0	
lost to all IX	624	76.5	

Potential Interfering Stations Included in above Scenario 1

23N IA AMES	BLCT	20010130ABE	LIC
23N MN MINNEAPOLIS	BLCT	20030401AXI	LIC
23A WI GREEN BAY	BMLCDT	20040723ADS	LIC

After Analysis

Results for: 23N MN LA CRESCENT	BLTTA	20040602ABA	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	116985	1593.6	
not affected by terrain losses	112725	1344.1	
lost to NTSC IX	624	76.5	
lost to additional IX by ATV	122	8.0	
lost to all IX	746	84.5	

Potential Interfering Stations Included in above Scenario 1

23N IA AMES	BLCT	20010130ABE	LIC
23N MN MINNEAPOLIS	BLCT	20030401AXI	LIC
23A WI GREEN BAY	BMLCDT	20040723ADS	LIC
23A MN ST. PAUL	USERRECORD01		APP

Percent new IX = 0.1043%

Result key: 10
Scenario 2 Affected station 5
Before Analysis

Results for: 23N MN LA CRESCENT	BLTTA	20040602ABA	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	116985	1593.6	
not affected by terrain losses	112725	1344.1	
lost to NTSC IX	624	76.5	
lost to additional IX by ATV	0	0.0	
lost to all IX	624	76.5	

Potential Interfering Stations Included in above Scenario 2

23N IA AMES	BLCT	20010130ABE	LIC
23N MN MINNEAPOLIS	BLCT	20030401AXI	LIC
23A WI GREEN BAY	DTVPLN	DTVP0861	PLN

After Analysis

Results for: 23N MN LA CRESCENT	BLTTA	20040602ABA	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	116985	1593.6	
not affected by terrain losses	112725	1344.1	
lost to NTSC IX	624	76.5	
lost to additional IX by ATV	122	8.0	
lost to all IX	746	84.5	

Potential Interfering Stations Included in above Scenario 2

23N IA AMES	BLCT	20010130ABE	LIC
23N MN MINNEAPOLIS	BLCT	20030401AXI	LIC