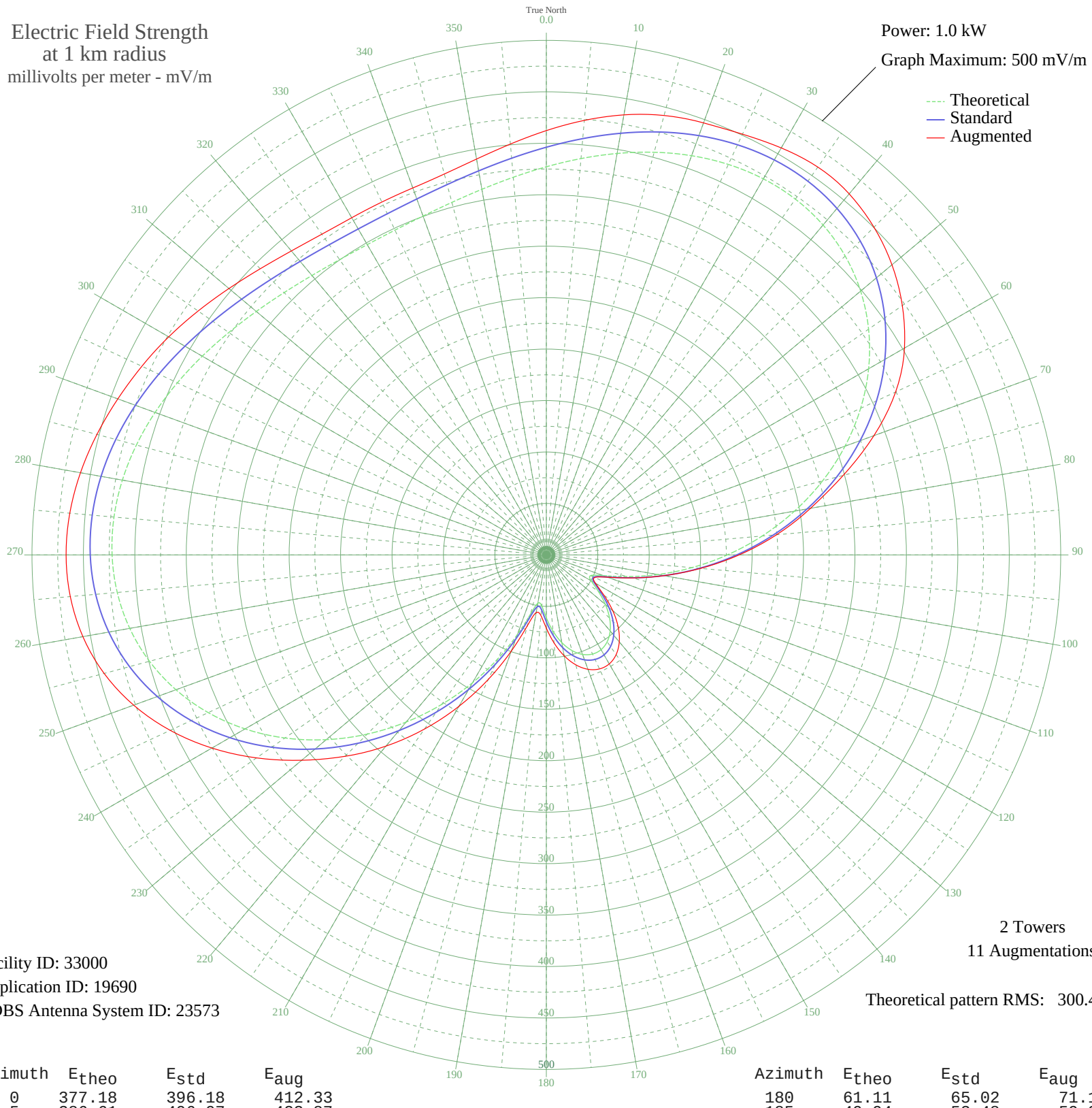
KGFK EAST GRAND FORKS, MN BL-19800415AA 1590 kHz

Nighttime

Electric Field Strength
at 1 km radius
millivolts per meter - mV/m



Power: 1.0 kW

Graph Maximum: 500 mV/m

Theoretical
Standard
Augmented

2 Towers
11 Augmentations

Facility ID: 33000
Application ID: 19690
CDBS Antenna System ID: 23573

Theoretical pattern RMS: 300.46

Azimuth	E_{theo}	E_{std}	E_{aug}
0	377.18	396.18	412.33
5	386.61	406.07	423.87
10	396.12	416.06	434.22
15	405.08	425.47	442.08
20	412.83	433.60	446.76
25	418.68	439.74	451.13
30	421.96	443.18	456.68
35	422.07	443.30	460.09
40	418.48	439.53	457.99
45	410.81	431.48	450.37
50	398.81	418.88	438.58
55	382.41	401.67	422.45
60	361.75	379.98	402.00
65	337.12	354.13	374.64
70	309.00	324.62	338.88
75	278.03	292.12	298.85
80	244.96	257.43	260.71
85	210.65	221.43	224.69
90	176.01	185.11	187.43
95	142.06	149.53	150.47
100	109.95	115.93	116.15
105	81.29	86.00	86.41
110	58.83	62.66	63.34
115	47.49	50.96	51.87
120	50.28	53.82	55.11
125	61.63	65.56	68.42
130	74.91	79.36	84.21
135	86.97	91.92	98.69
140	96.53	101.90	110.29
145	103.07	108.73	118.28
150	106.36	112.17	122.31
155	106.29	112.10	122.26
160	102.87	108.53	118.28
165	96.20	101.56	110.56
170	86.53	91.46	99.48
175	74.39	78.81	85.81
180	61.11	65.02	71.19
185	49.94	53.48	59.33
190	47.67	51.14	56.91
195	59.56	63.41	71.19
200	82.34	87.09	99.32
205	111.19	117.22	133.48
210	143.39	150.93	169.89
215	177.39	186.56	206.64
220	212.04	222.88	242.57
225	246.32	258.85	276.81
230	279.31	293.47	310.48
235	310.18	325.86	343.92
240	338.17	355.24	375.39
245	362.65	380.93	403.42
250	383.15	402.45	426.89
255	399.37	419.47	445.03
260	411.20	431.89	457.46
265	418.70	439.76	464.51
270	422.13	443.36	466.83
275	421.89	443.10	465.01
280	418.49	439.54	459.85
285	412.55	433.31	452.27
290	404.74	425.11	443.28
295	395.74	415.66	433.81
300	386.22	405.67	423.84
305	376.81	395.79	413.23
310	368.07	386.62	402.75
315	360.49	378.66	393.26
320	354.46	372.33	385.59
325	350.29	367.95	380.47
330	348.18	365.74	378.34
335	348.22	365.78	378.34
340	350.42	368.09	379.47
345	354.67	372.55	383.20
350	360.76	378.95	390.62
355	368.40	386.96	400.78

The theoretical pattern is used to create the standard pattern. Augmentations (if any) expand the standard pattern in specified directions. See Sections 73.150 and 73.152 of the FCC's Rules.

AM coverage may not mirror the pattern shown here. Additional factors such as ground conductivity or skywave propagation affect how far the AM signal will travel.

Patterns for stations outside the USA are based on notified parameters.

AM directional patterns created before 1982 used units of 1 mV/m at 1 mile, not one kilometer. The pattern values on such plots at 1 mile will be 0.62137 of the values listed here. Measured pattern values may vary from values shown here.

Plot is best printed on 11" by 17" or larger paper.

10 Nov 2011

Prepared by Audio Division, Media Bureau
Federal Communications Commission