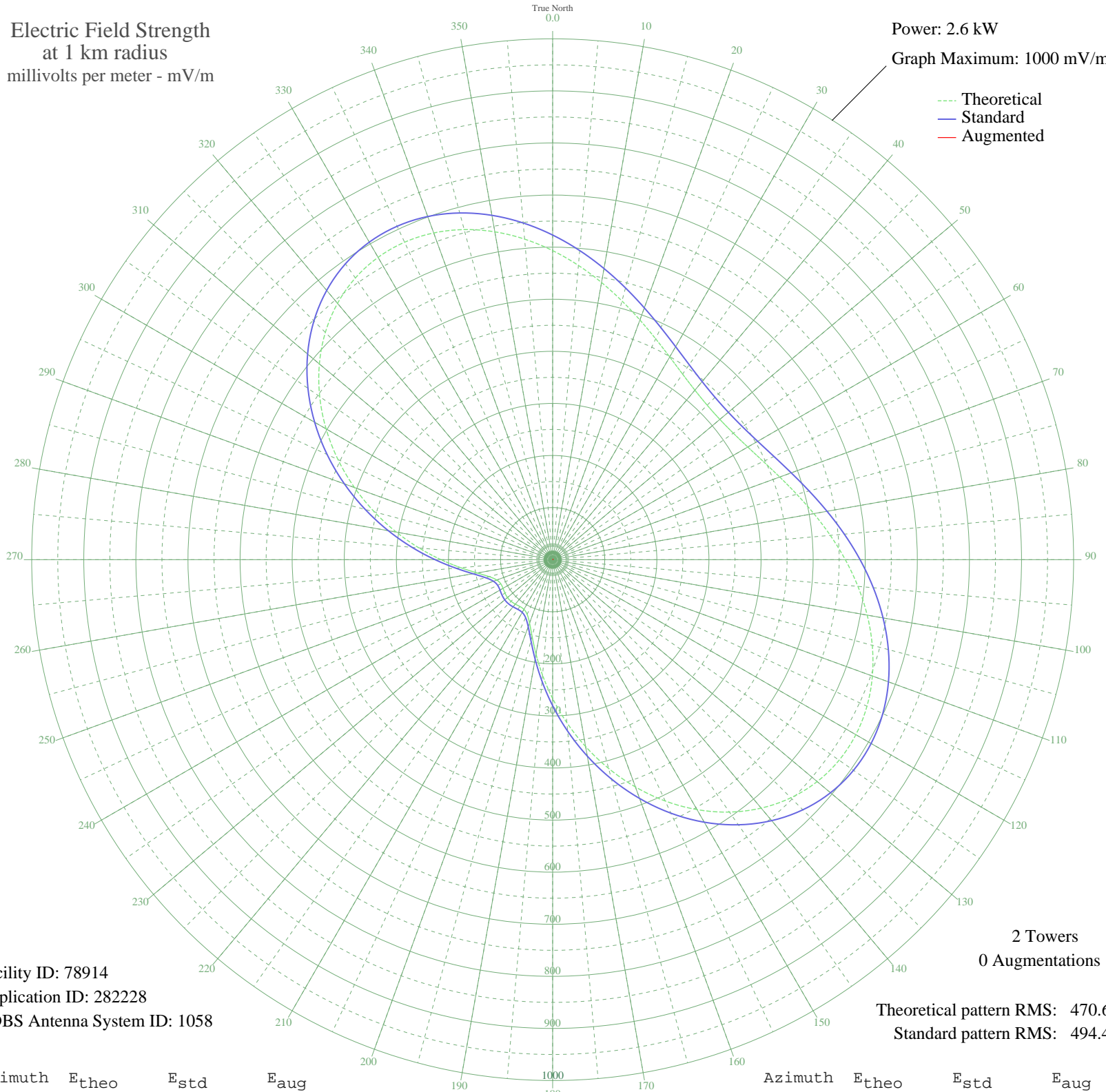


WVAL SAUK RAPIDS, MN BL-19990224DC 800 kHz

Daytime

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

Power: 2.6 kW
Graph Maximum: 1000 mV/m



Facility ID: 78914
Application ID: 282228
CDBS Antenna System ID: 1058

2 Towers
0 Augmentations

Theoretical pattern RMS: 470.63
Standard pattern RMS: 494.45

Azimuth	E _{theo}	E _{std}	E _{aug}
0	593.36	623.26	
5	567.12	595.71	
10	540.32	567.59	
15	514.15	540.13	
20	489.69	514.45	
25	467.84	491.52	
30	449.37	472.14	
35	434.88	456.94	
40	424.82	446.38	
45	419.47	440.77	
50	418.98	440.25	
55	423.36	444.85	
60	432.50	454.44	
65	446.14	468.75	
70	463.85	487.34	
75	485.08	509.61	
80	509.09	534.82	
85	535.00	562.01	
90	561.76	590.09	
95	588.22	617.86	
100	613.11	643.99	
105	635.16	667.13	
110	653.09	685.95	
115	665.73	699.22	
120	672.06	705.86	
125	671.27	705.04	
130	662.86	696.21	
135	646.63	679.17	
140	622.71	654.06	
145	591.59	621.40	
150	554.08	582.03	
155	511.23	537.06	
160	464.36	487.87	
165	414.90	435.98	
170	364.40	382.99	
175	314.44	330.60	

Azimuth	E _{theo}	E _{std}	E _{aug}
180	266.63	280.47	
185	222.58	234.32	
190	183.95	193.89	
195	152.45	160.96	
200	129.54	137.07	
205	115.83	122.80	
210	110.17	116.91	
215	109.75	116.47	
220	111.45	118.24	
225	112.97	119.82	
230	113.13	119.99	
235	111.83	118.63	
240	110.01	116.75	
245	109.77	116.50	
250	114.13	121.03	
255	126.07	133.45	
260	147.14	155.42	
265	177.03	186.65	
270	214.36	225.72	
275	257.46	270.86	
280	304.65	320.33	
285	354.31	372.41	
290	404.83	425.41	
295	454.63	477.66	
300	502.14	527.52	
305	545.90	573.44	
310	584.57	614.03	
315	617.04	648.11	
320	642.45	674.78	
325	660.24	693.46	
330	670.21	703.93	
335	672.49	706.32	
340	667.53	701.11	
345	656.07	689.09	
350	639.11	671.28	
355	617.79	648.90	

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.

20 Nov 2009

Prepared by Audio Division, Media Bureau
Federal Communications Commission