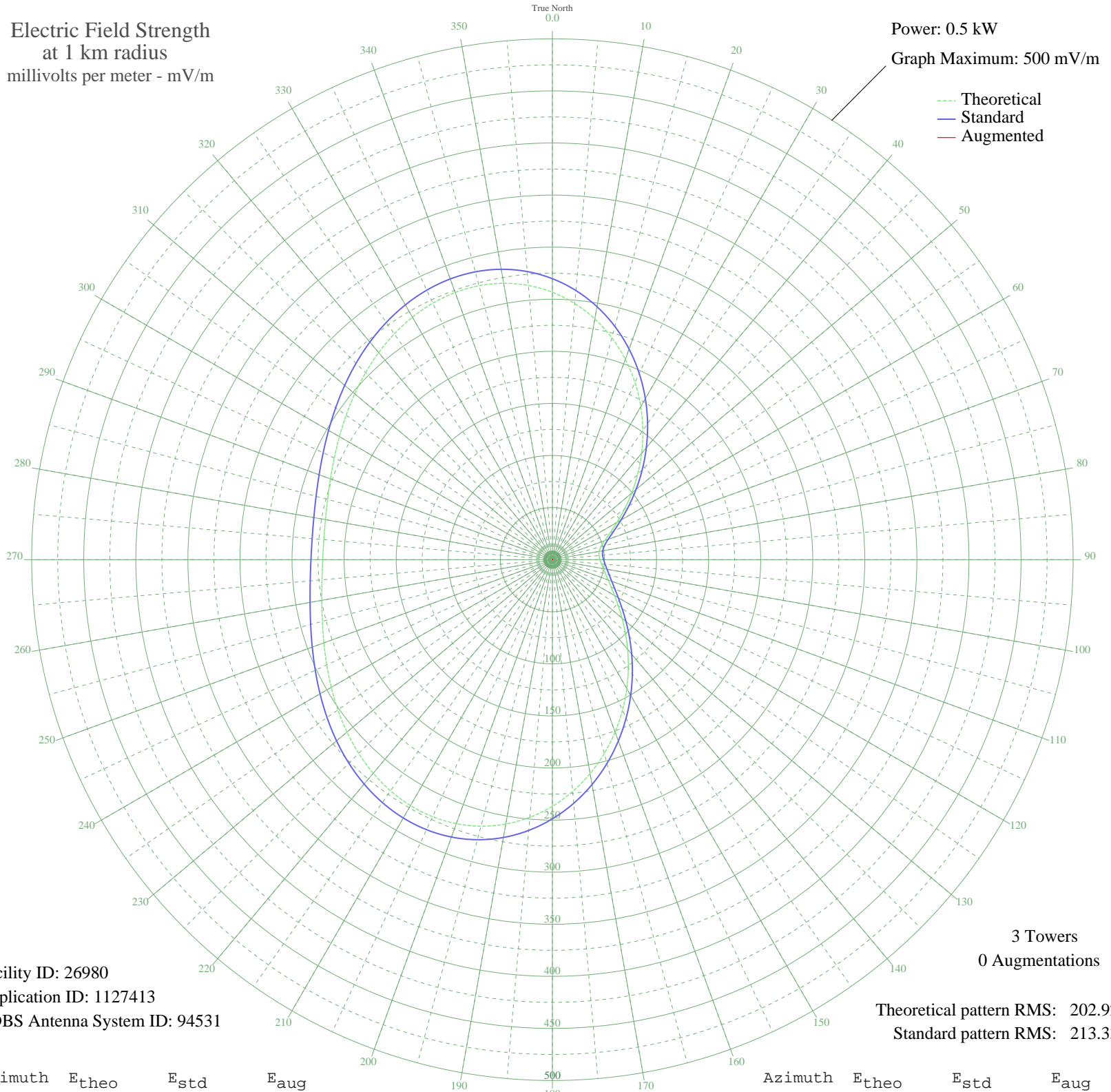


**WBHR SAUK RAPIDS, MN BL-20060414ABT 660 kHz**

**Nighttime**

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

Power: 0.5 kW  
Graph Maximum: 500 mV/m



Facility ID: 26980  
Application ID: 1127413  
CDBS Antenna System ID: 94531

Theoretical pattern RMS: 202.92  
Standard pattern RMS: 213.33

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	256.68	269.72	
5	246.78	259.33	
10	234.65	246.60	
15	220.52	231.78	
20	204.71	215.21	
25	187.63	197.29	
30	169.70	178.50	
35	151.42	159.33	
40	133.27	140.33	
45	115.75	121.99	
50	99.34	104.84	
55	84.49	89.34	
60	71.64	75.95	
65	61.16	65.08	
70	53.35	56.99	
75	48.25	51.74	
80	45.64	49.06	
85	44.99	48.39	
90	45.72	49.14	
95	47.38	50.84	
100	49.76	53.29	
105	52.87	56.50	
110	56.91	60.67	
115	62.14	66.08	
120	68.82	73.02	
125	77.14	81.68	
130	87.21	92.17	
135	98.99	104.47	
140	112.35	118.44	
145	127.07	133.84	
150	142.85	150.36	
155	159.31	167.60	
160	176.04	185.14	
165	192.60	202.50	
170	208.52	219.20	
175	223.37	234.78	

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	236.74	248.80	
185	248.28	260.90	
190	257.71	270.80	
195	264.88	278.32	
200	269.69	283.37	
205	272.20	286.00	
210	272.53	286.35	
215	270.90	284.64	
220	267.62	281.19	
225	263.02	276.37	
230	257.48	270.56	
235	251.40	264.17	
240	245.14	257.61	
245	239.07	251.24	
250	233.49	245.39	
255	228.66	240.33	
260	224.81	236.28	
265	222.08	233.42	
270	220.56	231.83	
275	220.30	231.56	
280	221.30	232.61	
285	223.50	234.91	
290	226.81	238.38	
295	231.08	242.86	
300	236.14	248.16	
305	241.77	254.08	
310	247.74	260.33	
315	253.74	266.64	
320	259.48	272.66	
325	264.62	278.05	
330	268.80	282.43	
335	271.67	285.45	
340	272.91	286.75	
345	272.23	286.04	
350	269.39	283.06	
355	264.23	277.64	

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.

03 Nov 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission