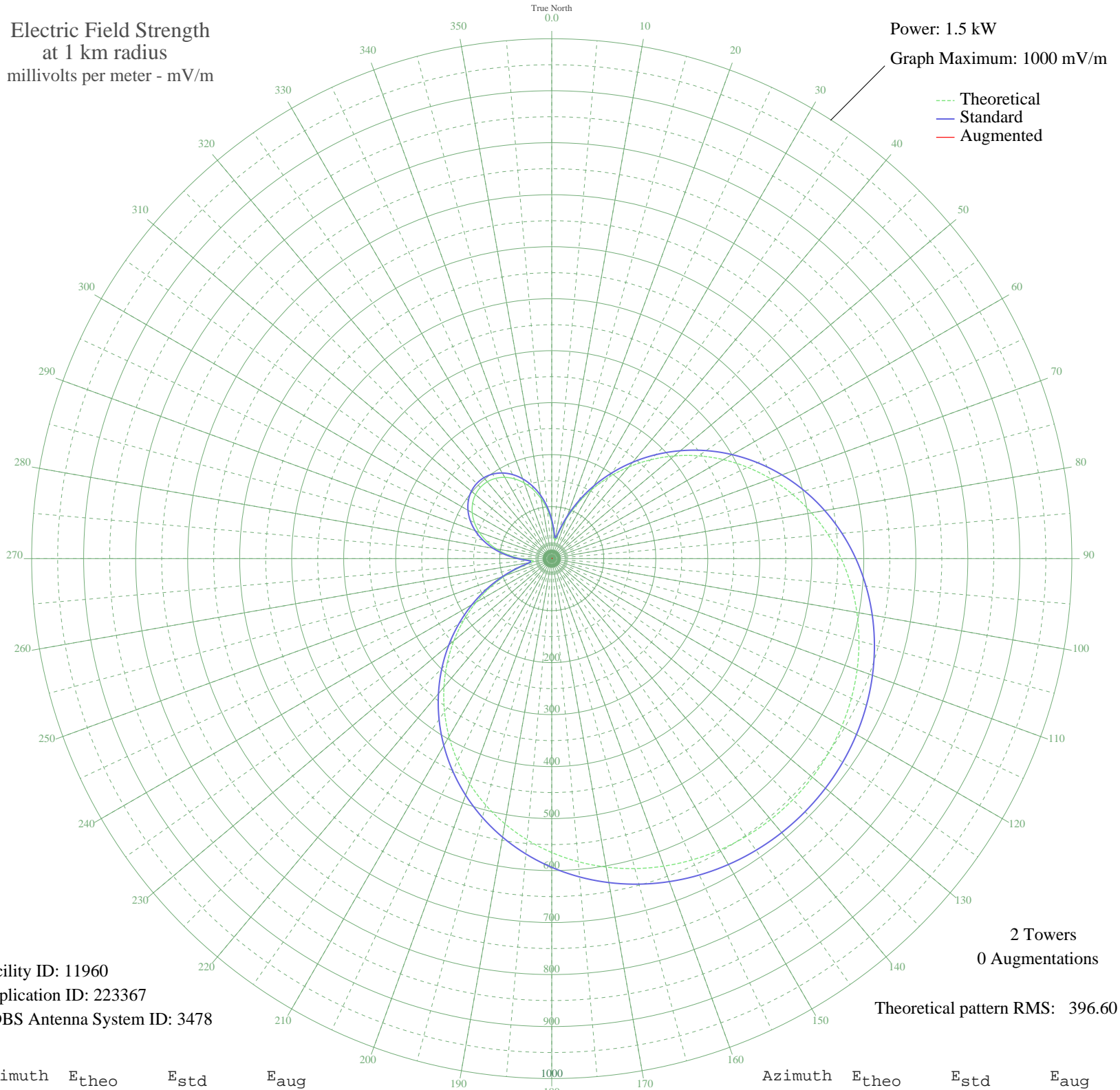


# WRNL RICHMOND, VA BL-19960410AF 910 kHz

Nighttime

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

Power: 1.5 kW  
Graph Maximum: 1000 mV/m



Facility ID: 11960  
Application ID: 223367  
CDBS Antenna System ID: 3478

2 Towers  
0 Augmentations

Theoretical pattern RMS: 396.60

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	69.60	74.73	
5	46.48	51.23	
10	35.48	40.38	
15	50.80	55.57	
20	80.70	86.16	
25	115.60	122.37	
30	152.77	161.16	
35	191.12	201.28	
40	229.99	242.00	
45	268.85	282.73	
50	307.24	322.98	
55	344.73	362.30	
60	380.95	400.30	
65	415.58	436.63	
70	448.32	471.00	
75	478.96	503.15	
80	507.30	532.90	
85	533.22	560.10	
90	556.63	584.67	
95	577.49	606.56	
100	595.79	625.77	
105	611.56	642.32	
110	624.82	656.25	
115	635.65	667.62	
120	644.09	676.48	
125	650.21	682.90	
130	654.03	686.91	
135	655.60	688.56	
140	654.93	687.85	
145	652.01	684.79	
150	646.82	679.34	
155	639.31	671.46	
160	629.44	661.10	
165	617.16	648.20	
170	602.40	632.71	
175	585.12	614.57	

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	565.28	593.75	
185	542.89	570.25	
190	517.97	544.09	
195	490.58	515.35	
200	460.84	484.14	
205	428.92	450.63	
210	395.01	415.05	
215	359.39	377.68	
220	322.36	338.84	
225	284.29	298.91	
230	245.57	258.32	
235	206.64	217.53	
240	168.01	177.10	
245	130.27	137.67	
250	94.28	100.21	
255	61.81	66.75	
260	38.70	43.52	
265	39.50	44.31	
270	59.89	64.79	
275	84.35	89.93	
280	108.00	114.47	
285	129.48	136.84	
290	148.22	156.41	
295	163.94	172.84	
300	176.46	185.94	
305	185.67	195.58	
310	191.50	201.68	
315	193.91	204.20	
320	192.87	203.12	
325	188.41	198.44	
330	180.55	190.21	
335	169.34	178.49	
340	154.88	163.37	
345	137.32	145.03	
350	116.89	123.72	
355	94.01	99.94	

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 Jul 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission