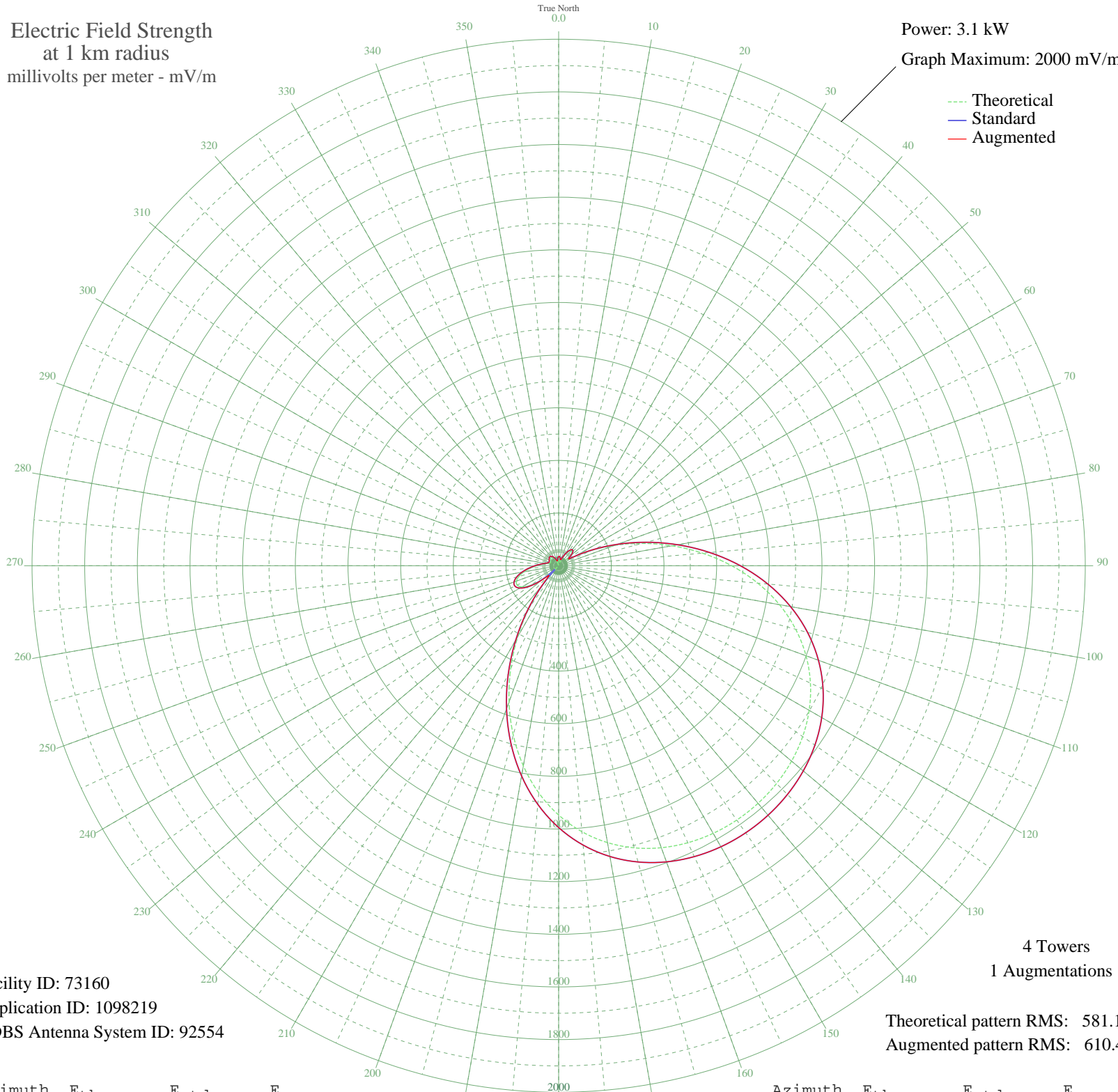


# WKGM SMITHFIELD, VA BZ-20051110AGP 940 kHz

Nighttime

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

Power: 3.1 kW  
Graph Maximum: 2000 mV/m



Facility ID: 73160  
Application ID: 1098219  
CDBS Antenna System ID: 92554

4 Towers  
1 Augmentations

Theoretical pattern RMS: 581.10  
Augmented pattern RMS: 610.47

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	28.38	35.07	35.07
5	28.99	35.61	35.61
10	24.26	31.48	31.48
15	15.93	24.93	24.93
20	15.53	24.65	24.65
25	30.77	37.23	37.23
30	49.47	55.14	55.14
35	65.30	71.02	71.02
40	73.73	79.59	79.59
45	71.00	76.81	76.81
50	55.72	61.36	61.36
55	39.20	45.12	45.12
60	68.07	73.83	73.83
65	136.86	144.89	144.89
70	225.66	237.67	237.67
75	327.45	344.31	344.31
80	436.73	458.94	458.94
85	548.24	575.95	575.95
90	657.10	690.21	690.21
95	759.21	797.39	797.39
100	851.49	894.25	894.25
105	931.98	978.75	978.75
110	999.83	1049.98	1049.98
115	1055.11	1108.02	1108.02
120	1098.59	1153.66	1153.66
125	1131.40	1188.11	1188.11
130	1154.85	1212.74	1212.74
135	1170.13	1228.78	1228.78
140	1178.15	1237.19	1237.19
145	1179.38	1238.48	1238.48
150	1173.83	1232.66	1232.66
155	1160.99	1219.18	1219.18
160	1139.95	1197.09	1197.09
165	1109.41	1165.03	1165.03
170	1067.95	1121.50	1121.50
175	1014.19	1065.06	1065.06

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

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	947.09	994.61	994.61
185	866.20	909.70	909.70
190	771.97	810.77	810.77
195	665.92	699.46	699.46
200	550.79	578.62	578.62
205	430.43	452.32	452.32
210	309.62	325.62	325.62
215	193.66	204.18	204.18
220	87.92	94.15	99.95
225	7.29	20.01	51.50
230	76.40	82.32	88.90
235	128.72	136.42	136.42
240	160.64	169.68	169.68
245	173.66	183.27	183.27
250	170.77	180.26	180.26
255	155.97	164.81	164.81
260	133.70	141.59	141.59
265	108.27	115.18	115.18
270	83.45	89.55	89.55
275	62.14	67.82	67.82
280	46.29	52.00	52.00
285	36.70	42.74	42.74
290	32.80	39.09	39.09
295	32.87	39.16	39.16
300	35.11	41.24	41.24
305	38.13	44.10	44.10
310	40.78	46.64	46.64
315	42.02	47.83	47.83
320	40.99	46.84	46.84
325	37.17	43.18	43.18
330	30.43	36.91	36.91
335	21.08	28.84	28.84
340	9.88	21.20	21.20
345	2.62	18.69	18.69
350	13.70	23.42	23.42
355	22.88	30.31	30.31