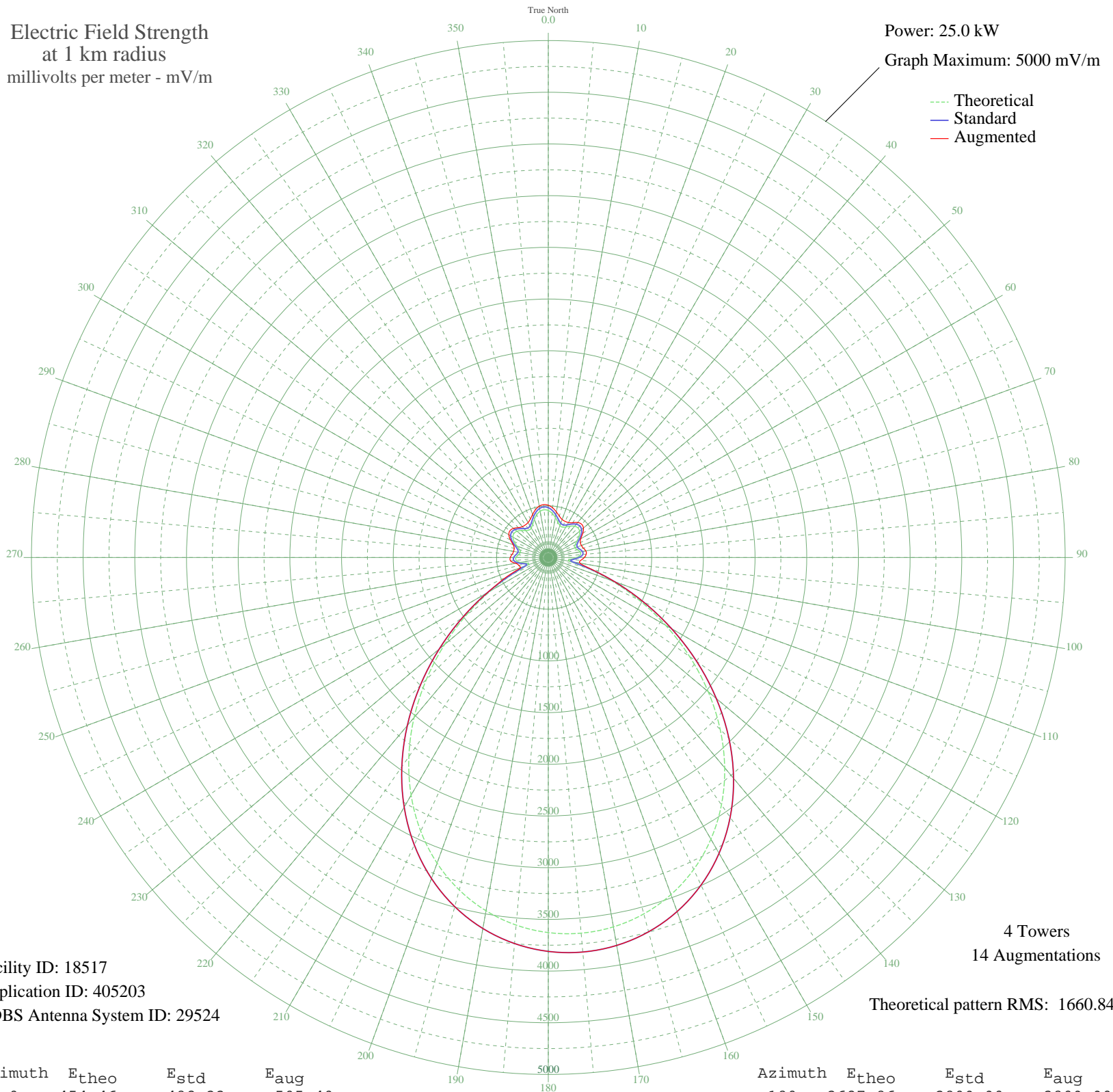


WWNL PITTSBURGH, PA BL-- 1080 kHz

Critical Hours

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

Power: 25.0 kW
Graph Maximum: 5000 mV/m



Facility ID: 18517
Application ID: 405203
CDBS Antenna System ID: 29524

4 Towers
14 Augmentations
Theoretical pattern RMS: 1660.84

Azimuth	E _{theo}	E _{std}	E _{aug}
0	454.46	482.33	505.40
5	429.45	456.38	482.38
10	393.57	419.19	448.07
15	355.99	380.35	413.88
20	329.12	352.66	391.31
25	323.82	347.21	385.65
30	340.94	364.82	390.21
35	369.56	394.36	410.45
40	394.95	420.62	441.64
45	405.44	431.49	455.66
50	394.96	420.63	443.74
55	364.20	388.82	406.89
60	321.98	345.31	362.87
65	285.84	308.26	341.55
70	275.15	297.35	341.18
75	291.34	313.88	351.46
80	312.28	335.35	368.32
85	312.01	335.08	368.07
90	275.35	297.55	348.65
95	212.72	234.17	315.39
100	215.01	236.46	309.99
105	379.85	405.00	422.91
110	644.78	680.67	680.67
115	962.98	1013.57	1013.57
120	1310.31	1377.63	1377.63
125	1667.91	1752.71	1752.71
130	2019.54	2121.68	2121.68
135	2351.80	2470.39	2470.39
140	2654.45	2788.06	2788.06
145	2920.50	3067.33	3067.33
150	3145.91	3303.95	3303.95
155	3328.98	3496.13	3496.13
160	3469.68	3643.85	3643.85
165	3568.93	3748.03	3748.03
170	3627.86	3809.90	3809.90
175	3647.39	3830.40	3830.40

Azimuth	E _{theo}	E _{std}	E _{aug}
180	3627.86	3809.90	3809.90
185	3568.93	3748.03	3748.03
190	3469.68	3643.85	3643.85
195	3328.98	3496.13	3496.13
200	3145.91	3303.95	3303.95
205	2920.50	3067.33	3067.33
210	2654.45	2788.06	2788.06
215	2351.80	2470.39	2470.39
220	2019.54	2121.68	2121.68
225	1667.91	1752.71	1752.71
230	1310.31	1377.63	1377.63
235	962.98	1013.57	1013.57
240	644.78	680.67	680.67
245	379.85	405.00	450.62
250	215.01	236.46	284.71
255	212.72	234.17	295.28
260	275.35	297.55	320.51
265	312.01	335.08	367.17
270	312.28	335.35	368.32
275	291.34	313.88	351.46
280	275.15	297.35	341.18
285	285.84	308.26	341.24
290	321.98	345.31	361.53
295	364.20	388.82	404.50
300	394.96	420.63	440.69
305	405.44	431.49	452.47
310	394.95	420.62	438.86
315	369.56	394.36	408.55
320	340.94	364.82	389.42
325	323.82	347.21	385.58
330	329.12	352.66	390.70
335	355.99	380.35	410.64
340	393.57	419.19	443.23
345	429.45	456.38	478.69
350	454.46	482.33	504.18
355	463.35	491.58	513.38

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