

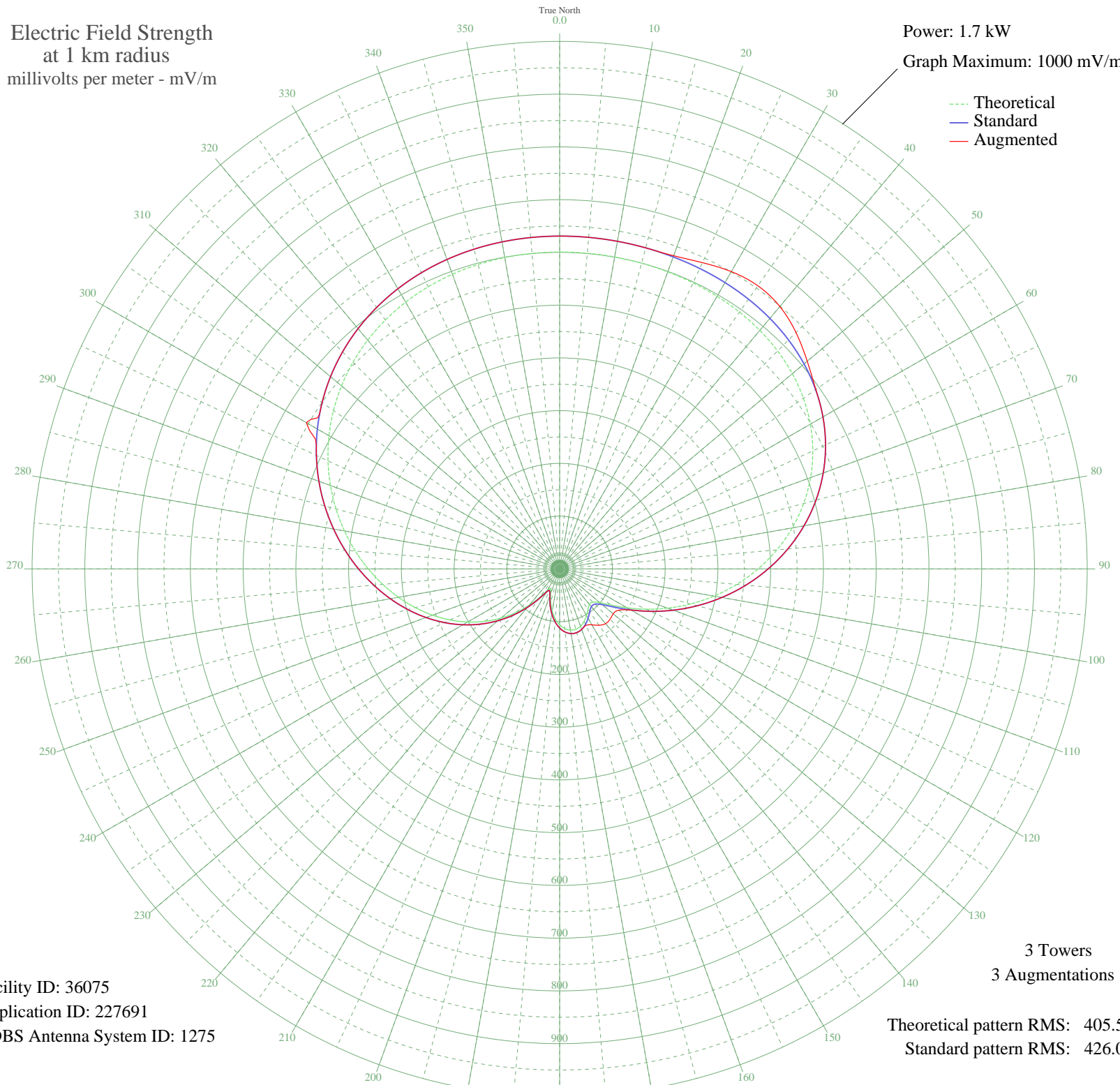
# WGNZ FAIRBORN, OH BL-19960607AB 1110 kHz

## Critical Hours

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

Power: 1.7 kW

Graph Maximum: 1000 mV/m



Facility ID: 36075  
Application ID: 227691  
CDBS Antenna System ID: 1275

3 Towers  
3 Augmentations

Theoretical pattern RMS: 405.50  
Standard pattern RMS: 426.03

Azimuth	Etheo	Estd	Eaug
0	600.75	630.93	630.93
5	600.71	630.90	630.90
10	600.42	630.59	630.59
15	599.95	630.09	630.09
20	599.29	629.40	631.76
25	598.32	628.38	640.56
30	596.76	626.75	650.77
35	594.25	624.11	655.19
40	590.29	619.95	649.37
45	584.31	613.68	633.61
50	575.75	604.69	612.60
55	564.04	592.40	592.87
60	548.73	576.33	576.33
65	529.49	556.14	556.14
70	506.18	531.66	531.66
75	478.84	502.97	502.97
80	447.73	470.32	470.32
85	413.30	434.19	434.19
90	376.18	395.22	395.22
95	337.12	354.24	354.24
100	297.02	312.17	312.17
105	256.85	270.04	270.04
110	217.70	228.99	228.99
115	180.75	190.28	190.28
120	147.46	155.43	156.20
125	119.61	126.34	136.55
130	99.47	105.34	132.42
135	89.02	94.47	135.00
140	88.10	93.51	135.43
145	93.66	99.29	130.43
150	101.81	107.77	122.53
155	109.66	115.95	118.24
160	115.50	122.04	122.04
165	118.40	125.07	125.07
170	117.87	124.52	124.52
175	113.72	120.19	120.19

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.

13 Nov 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission

Azimuth	Etheo	Estd	Eaug
180	105.98	112.11	112.11
185	94.87	100.55	100.55
190	80.92	86.06	86.06
195	65.16	69.77	69.77
200	50.01	54.26	54.26
205	41.34	45.51	45.51
210	47.09	51.30	51.30
215	65.51	70.14	70.14
220	89.97	95.46	95.46
225	116.98	123.59	123.59
230	144.99	152.85	152.85
235	173.24	182.42	182.42
240	201.32	211.83	211.83
245	229.04	240.88	240.88
250	256.37	269.54	269.54
255	283.36	297.84	297.84
260	310.07	325.86	325.86
265	336.56	353.66	353.66
270	362.83	381.21	381.21
275	388.76	408.42	408.42
280	414.16	435.08	435.08
285	438.77	460.92	460.92
290	462.30	485.60	485.60
295	484.42	508.82	508.82
300	504.85	530.27	554.50
305	523.35	549.69	549.69
310	539.77	566.93	566.93
315	554.02	581.88	581.88
320	566.07	594.53	594.53
325	575.98	604.94	604.94
330	583.89	613.24	613.24
335	589.95	619.60	619.60
340	594.39	624.26	624.26
345	597.43	627.45	627.45
350	599.34	629.45	629.45
355	600.36	630.53	630.53