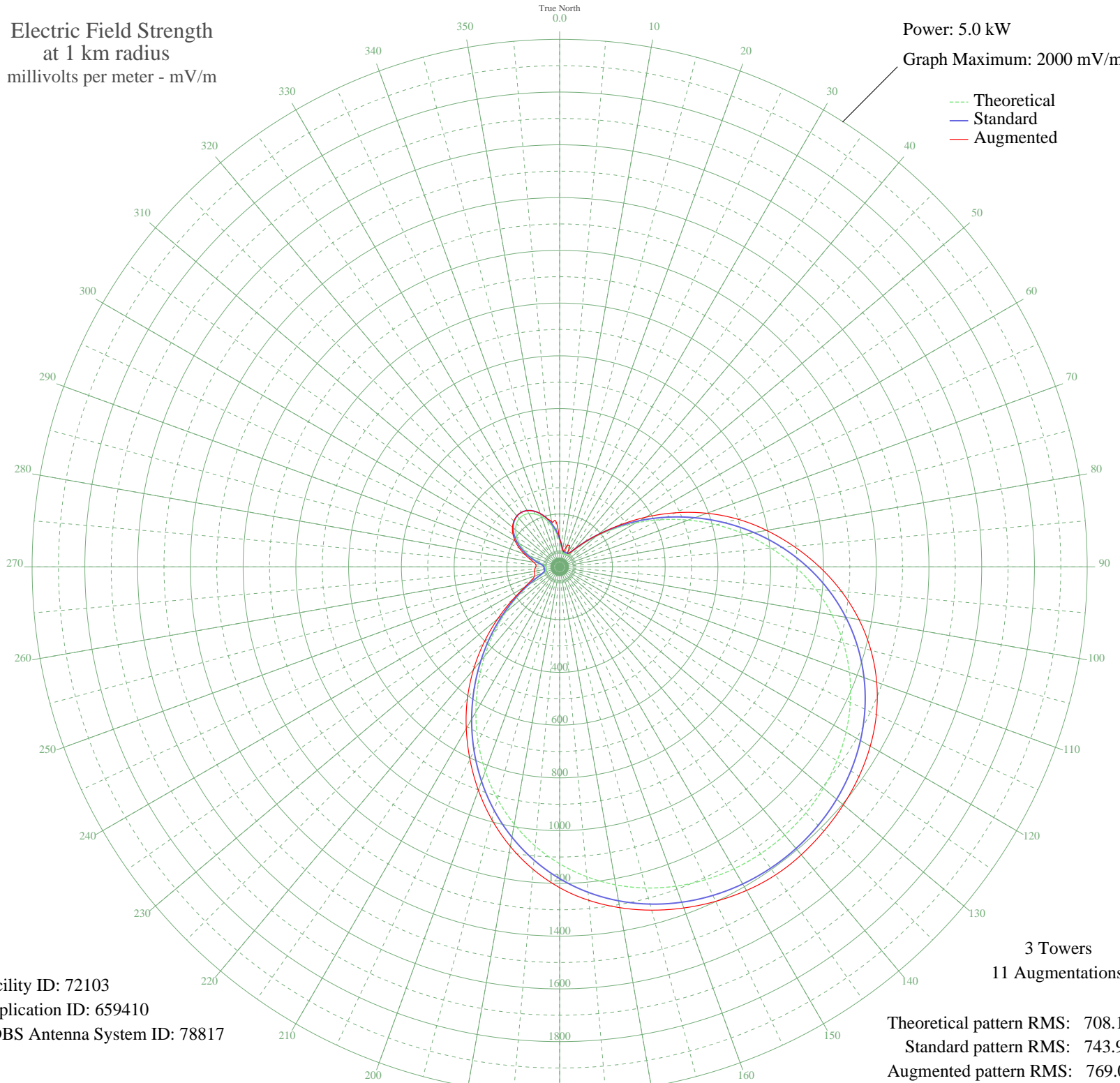


# WGH NEWPORT NEWS, VA BL-20030417ACK 1310 kHz

Nighttime

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

Power: 5.0 kW  
Graph Maximum: 2000 mV/m



Facility ID: 72103  
Application ID: 659410  
CDBS Antenna System ID: 78817

Theoretical pattern RMS: 708.11  
Standard pattern RMS: 743.90  
Augmented pattern RMS: 769.01

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	99.18	107.14	107.14
5	75.38	83.07	83.07
10	58.72	66.61	66.61
15	51.40	59.57	59.57
20	50.59	58.79	88.51
25	50.81	59.00	88.51
30	50.61	58.82	58.82
35	56.46	64.42	64.42
40	78.96	86.66	86.66
45	120.87	129.39	129.39
50	179.18	189.82	189.82
55	250.82	264.57	273.87
60	333.08	350.64	376.35
65	423.19	445.07	485.24
70	518.31	544.81	594.04
75	615.56	646.83	698.67
80	712.21	748.24	796.63
85	805.75	846.42	891.49
90	894.09	939.13	984.93
95	975.55	1024.64	1073.03
100	1048.97	1101.71	1152.67
105	1113.64	1169.59	1221.74
110	1169.26	1227.98	1279.15
115	1215.89	1276.93	1324.85
120	1253.80	1316.73	1359.71
125	1283.44	1347.85	1385.38
130	1305.29	1370.79	1403.78
135	1319.79	1386.01	1416.64
140	1327.28	1393.87	1425.02
145	1327.96	1394.58	1426.07
150	1321.84	1388.16	1416.69
155	1308.77	1374.44	1399.29
160	1288.42	1353.08	1376.25
165	1260.38	1323.64	1347.41
170	1224.15	1285.61	1312.08
175	1179.30	1238.52	1269.19

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.

24 Oct 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	1125.49	1182.03	1216.31
185	1062.62	1116.03	1151.52
190	990.91	1040.76	1076.51
195	910.97	956.85	992.36
200	823.90	865.46	900.95
205	731.24	768.21	805.04
210	635.03	667.25	708.11
215	537.68	565.13	609.75
220	441.91	464.69	508.02
225	350.56	368.95	405.70
230	266.51	280.97	306.90
235	192.53	203.72	218.18
240	131.32	140.17	152.49
245	85.87	93.62	116.41
250	59.38	67.25	101.04
255	50.94	59.13	98.20
260	50.73	58.92	97.81
265	50.69	58.89	94.89
270	50.90	59.09	90.32
275	56.51	64.47	90.35
280	71.37	79.06	99.44
285	94.03	101.89	117.82
290	120.91	129.43	142.24
295	148.86	158.32	168.98
300	175.49	185.98	194.45
305	198.97	210.43	216.29
310	217.90	230.18	233.52
315	231.30	244.17	245.51
320	238.50	251.69	251.88
325	239.16	252.38	252.38
330	233.25	246.21	246.21
335	221.05	233.47	233.47
340	203.15	214.79	214.79
345	180.49	191.18	191.18
350	154.36	164.03	173.81
355	126.50	135.19	175.42