

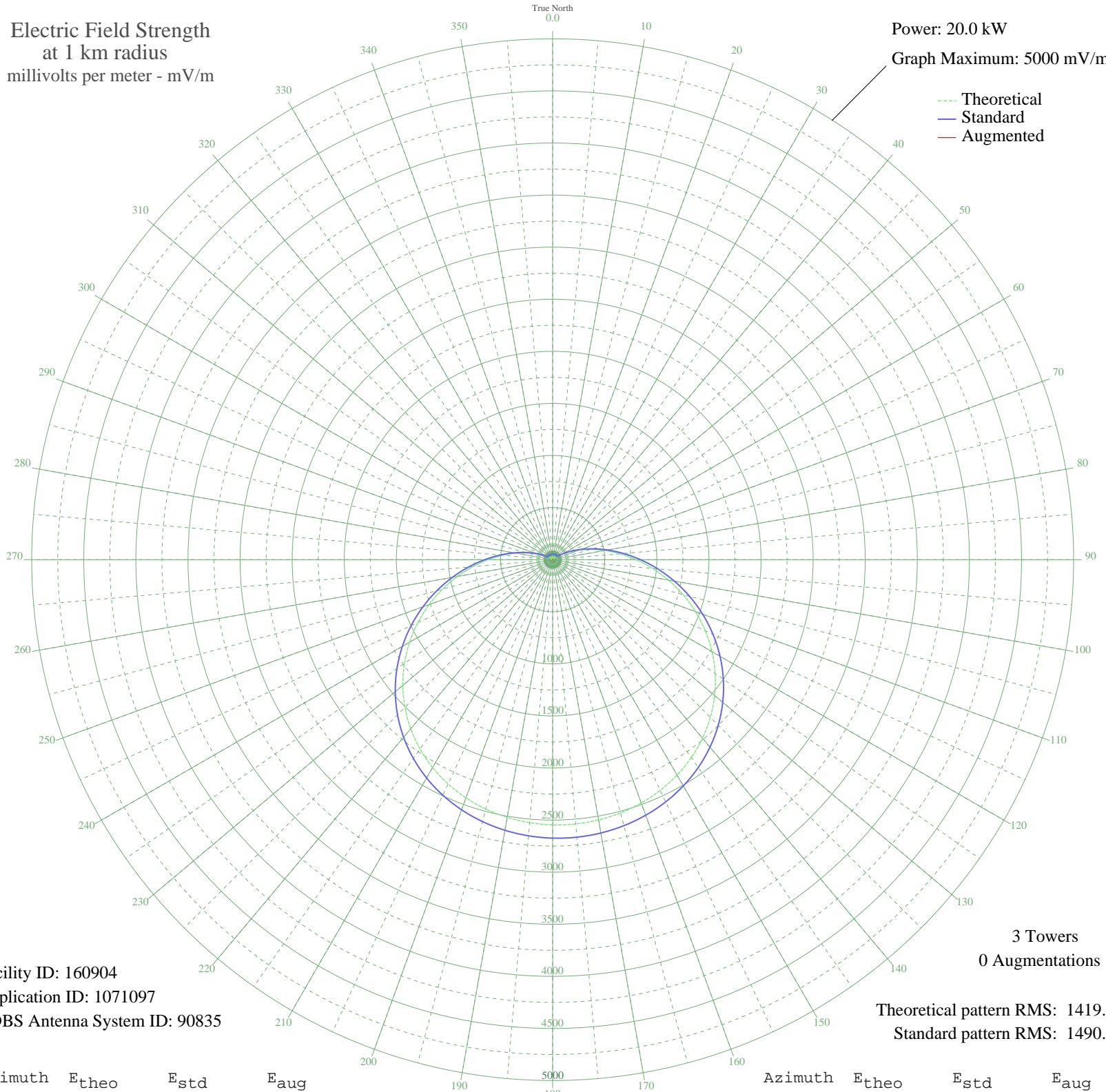
# WVVT ESSEX JUNCTION, VT BNP-20041029AIS 670 kHz

## Critical Hours

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

Power: 20.0 kW  
Graph Maximum: 5000 mV/m

--- Theoretical  
— Standard  
— Augmented



Facility ID: 160904  
Application ID: 1071097  
CDBS Antenna System ID: 90835

3 Towers  
0 Augmentations

Theoretical pattern RMS: 1419.00  
Standard pattern RMS: 1490.00

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	31.37	57.46	
5	26.46	54.67	
10	17.62	50.59	
15	5.95	47.49	
20	7.63	47.76	
25	20.44	51.74	
30	30.76	57.09	
35	36.07	60.42	
40	33.76	58.93	
45	21.25	52.10	
50	5.31	47.41	
55	44.74	66.51	
60	101.66	116.67	
65	176.41	191.12	
70	269.31	286.67	
75	379.91	401.68	
80	506.93	534.36	
85	648.29	682.33	
90	801.21	842.59	
95	962.41	1011.62	
100	1128.24	1185.59	
105	1294.99	1360.55	
110	1459.01	1532.68	
115	1616.98	1698.48	
120	1766.05	1854.95	
125	1903.92	1999.67	
130	2028.95	2130.92	
135	2140.09	2247.59	
140	2236.89	2349.20	
145	2319.37	2435.79	
150	2387.94	2507.78	
155	2443.24	2565.83	
160	2486.03	2610.75	
165	2517.07	2643.35	
170	2537.03	2664.30	
175	2546.37	2674.11	

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	2545.34	2673.02	
185	2533.90	2661.01	
190	2511.77	2637.78	
195	2478.43	2602.78	
200	2433.20	2555.29	
205	2375.31	2494.52	
210	2304.00	2419.66	
215	2218.68	2330.09	
220	2119.00	2225.45	
225	2005.03	2105.81	
230	1877.33	1971.76	
235	1737.07	1824.53	
240	1586.02	1665.98	
245	1426.59	1498.66	
250	1261.74	1325.67	
255	1094.88	1150.59	
260	929.68	977.29	
265	769.85	809.72	
270	618.99	651.65	
275	480.30	506.51	
280	356.43	377.20	
285	249.28	265.95	
290	160.00	174.48	
295	88.88	104.52	
300	35.42	60.00	
305	3.60	47.23	
310	24.68	53.74	
315	34.95	59.70	
320	35.53	60.07	
325	29.02	56.08	
330	18.00	50.73	
335	5.02	47.37	
340	8.43	47.91	
345	19.66	51.41	
350	27.78	55.38	
355	31.83	57.74	

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