

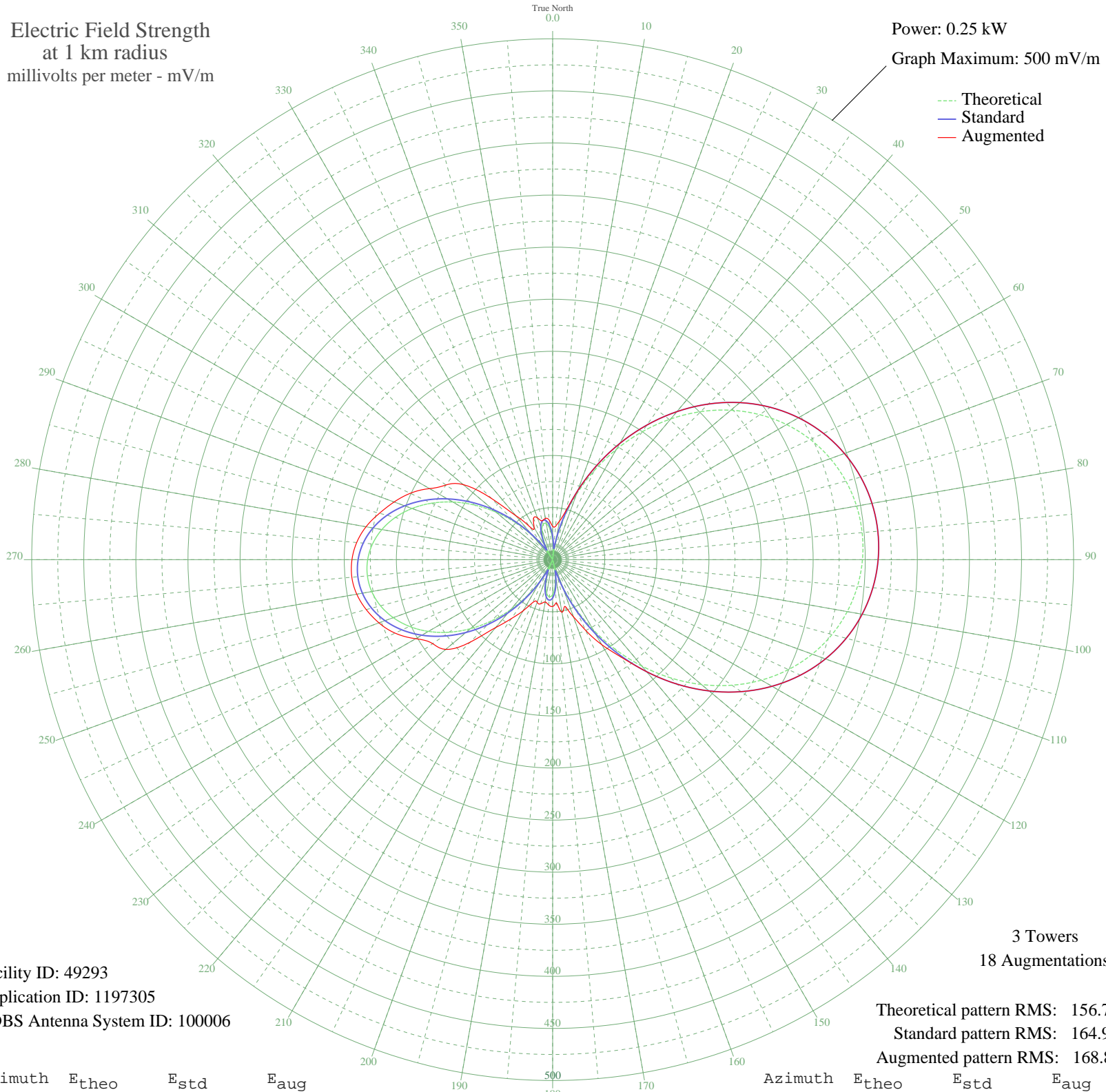
WPJX ZION, IL BP-20070814ABE 1500 kHz

Daytime

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

Power: 0.25 kW
Graph Maximum: 500 mV/m

--- Theoretical
--- Standard
--- Augmented



Facility ID: 49293
Application ID: 1197305
CDBS Antenna System ID: 100006

3 Towers
18 Augmentations

Theoretical pattern RMS: 156.75
Standard pattern RMS: 164.92
Augmented pattern RMS: 168.85

Azimuth	E _{theo}	E _{std}	E _{aug}
0	18.76	22.32	32.00
5	3.03	10.97	32.17
10	17.01	20.72	37.53
15	40.53	43.83	48.07
20	66.59	70.70	70.70
25	94.16	99.42	99.42
30	122.24	128.79	128.79
35	149.91	157.76	157.76
40	176.36	185.48	185.48
45	200.94	211.25	211.25
50	223.16	234.55	234.55
55	242.68	255.03	255.03
60	259.31	272.48	272.48
65	272.97	286.81	286.81
70	283.65	298.02	298.02
75	291.38	306.13	306.13
80	296.22	311.21	311.21
85	298.20	313.29	313.29
90	297.35	312.40	312.40
95	293.66	308.52	308.52
100	287.09	301.63	301.63
105	277.60	291.67	291.67
110	265.14	278.59	278.59
115	249.69	262.38	262.38
120	231.30	243.10	243.10
125	210.13	220.89	220.89
130	186.45	196.06	196.06
135	160.68	169.04	169.04
140	133.41	140.47	140.47
145	105.39	111.15	113.93
150	77.49	82.04	94.19
155	50.71	54.27	74.81
160	26.05	29.30	58.42
165	4.51	11.52	46.33
170	13.03	17.25	51.32
175	25.86	29.12	41.53

Azimuth	E _{theo}	E _{std}	E _{aug}
180	33.52	36.73	44.94
185	35.81	39.04	43.72
190	32.81	36.01	41.25
195	24.88	28.16	43.81
200	12.64	16.92	43.45
205	3.14	11.01	45.55
210	21.56	24.96	56.62
215	41.67	45.00	69.09
220	62.53	66.49	85.06
225	83.27	88.06	112.12
230	103.13	108.79	134.02
235	121.46	127.97	140.57
240	137.76	145.02	151.74
245	151.62	159.55	166.88
250	162.79	171.25	177.39
255	171.06	179.91	185.25
260	176.31	185.42	190.92
265	178.48	187.70	193.48
270	177.55	186.72	192.63
275	173.52	182.50	188.80
280	166.45	175.09	181.88
285	156.43	164.58	172.10
290	143.61	151.16	161.92
295	128.25	135.07	150.77
300	110.68	116.68	136.42
305	91.36	96.50	125.00
310	70.89	75.17	112.15
315	49.97	53.51	83.32
320	29.46	32.66	55.33
325	10.25	15.03	38.94
330	6.70	12.64	35.52
335	20.46	23.91	43.45
340	30.20	33.40	42.70
345	35.23	38.45	38.55
350	35.08	38.30	40.21
355	29.57	32.77	38.09

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.

14 Nov 2009

Prepared by Audio Division, Media Bureau
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