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MARANATHA BROADCASTING COMPANY, INCORPORATED

LICENSEE OF

WFMZ-DT CHANNEL 46

ALLENTOWN, PENNSYLVANIA

FCC FACILITY ID # 39884

FCC FILE No. BLCDT-20060621AAU

APPLICATION FOR A

MINOR MODIFICATION OF LICENSE

TO INCREASE ERP

DIRECTIONAL ANTENNA EXHIBIT

June 18, 2008

MARANATHA BROADCASTING COMPANY, INCORPORATED
LICENSEE OF
WFMZ-DT CHANNEL 46
ALLENTOWN, PENNSYLVANIA
FCC FILE No. BLCDT-20060621AAU

DIRECTIONAL ANTENNA EXHIBIT 43

This application is for a modification of License for WFMZ-DT to increase ERP from 400 to 800 kW.

The proposed pattern data is included herein and includes tabulations of the azimuth and elevation patterns along with a composite azimuth and elevation plot. The azimuth plot is shown rotated.

MARANATHA BROADCASTING CORP

WFMZ-DT ALLENTOWN PA

EXHIBIT 43 - TABLE 1

PSI PSIMPTD-10-DCPA-46
AZIMUTH PATTERN

10 Degree

Angle	Field	ERP (kW)	ERP (dBk)
0	0.239	45.70	16.599
10	0.232	43.06	16.341
20	0.223	39.78	15.997
30	0.217	37.67	15.760
40	0.216	37.32	15.720
50	0.226	40.86	16.113
60	0.260	54.08	17.330
70	0.298	71.04	18.515
80	0.404	130.57	21.159
90	0.551	242.88	23.854
100	0.711	404.42	26.068
110	0.841	565.82	27.527
120	0.895	640.82	28.067
130	0.940	706.88	28.493
140	0.973	757.38	28.793
150	0.993	788.84	28.970
160	1.000	800.00	29.031
170	0.992	787.25	28.961
180	0.971	754.27	28.775
190	0.937	702.38	28.466
200	0.837	560.46	27.485
210	0.736	433.36	26.368
220	0.635	322.58	25.086
230	0.534	228.12	23.582
240	0.404	130.57	21.159
250	0.251	50.40	17.024
260	0.233	43.43	16.378
270	0.222	39.43	15.958
280	0.218	38.02	15.800
290	0.221	39.07	15.919
300	0.237	44.94	16.526
310	0.235	44.18	16.452
320	0.241	46.46	16.671
330	0.246	48.41	16.850
340	0.247	48.81	16.885
350	0.227	41.22	16.151

Cardinal

Angle	Field	ERP (kW)	ERP (dBk)
0	0.24	46.08	16.635
45	0.221	39.07	15.919
90	0.551	242.88	23.854
135	0.952	725.04	28.604
180	0.971	754.27	28.775
225	0.585	273.78	24.374
270	0.222	39.43	15.958
315	0.238	45.32	16.562

Maxima

Angle	Field	ERP (kW)	ERP (dBk)
157	1.000	800.00	29.031
160	1.000	800.00	29.031

Minima

Angle	Field	ERP (kW)	ERP (dBk)
40	0.216	37.32	15.720
280	0.218	38.02	15.800

NO ROTATION

prepared by
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Glen Mills, PA 19342-9504

MARANATHA BROADCASTING CORP

WFMZ-DT ALLENTOWN, PA

EXHIBIT 43 - TABLE 2

PSI MODEL PSIMPTD-10-DCPA-46
ELEVATION PATTERN

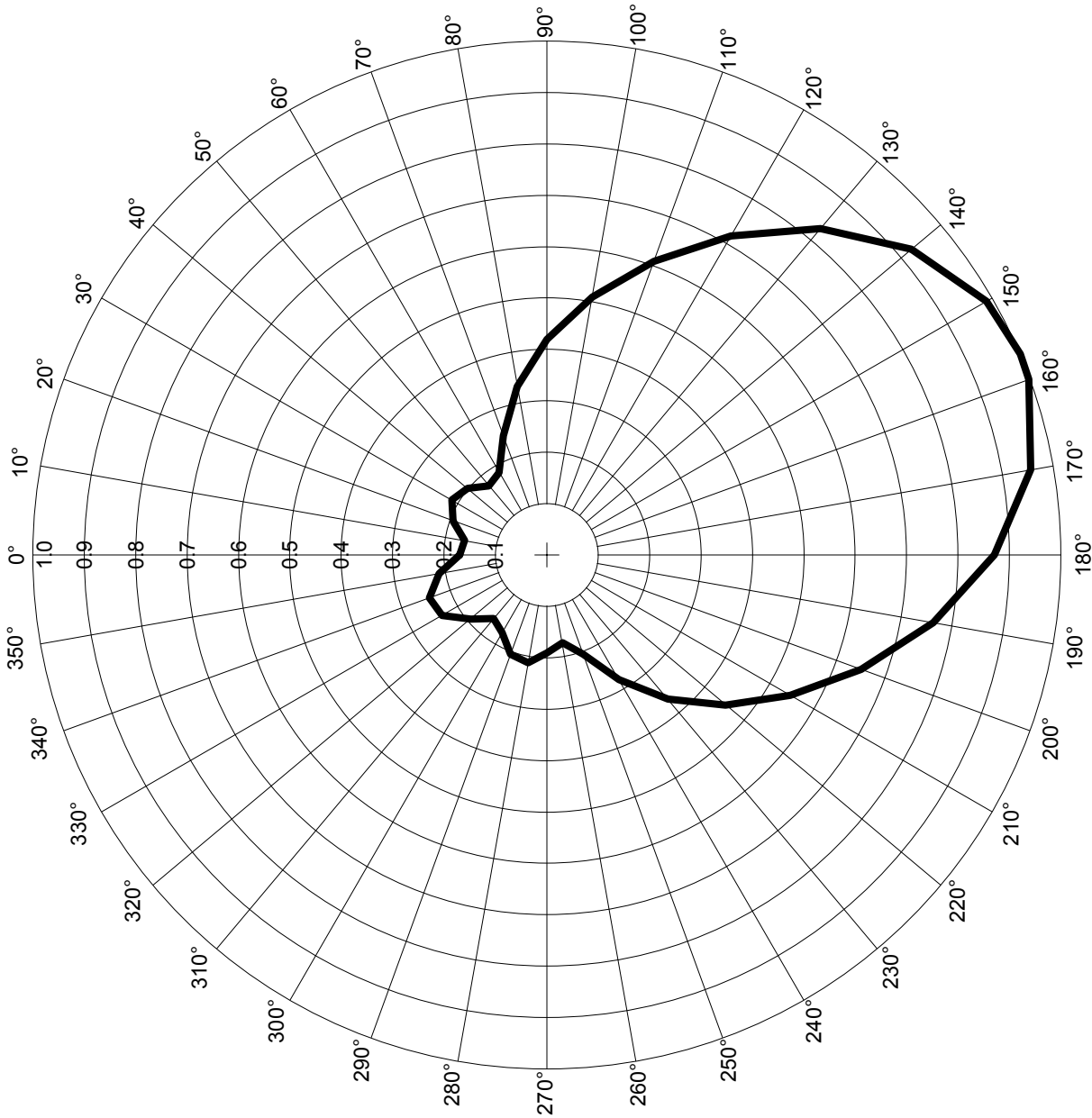
Elevation

Angle	Field
3.00	0.475
2.50	0.575
2.00	0.675
1.50	0.489
1.00	0.835
0.50	0.920
0.00	0.960
-0.50	0.985
-1.00	1.000
-1.50	0.985
-2.00	0.960
-2.50	0.920
-3.00	0.860
-3.50	0.795
-4.00	0.710
-4.50	0.620
-5.00	0.520
-5.50	0.425
-6.00	0.330
-6.50	0.250
-7.00	0.195
-7.50	0.165
-8.00	0.170
-8.50	0.187
-9.00	0.215
-9.50	0.230
-10.00	0.237
-10.50	0.232
-11.00	0.225
-11.50	0.200
-12.00	0.175
-12.50	0.137
-13.00	0.100

ERP (kW)	ERP (dBk)
180.50	22.565
264.50	24.224
364.50	25.617
191.30	22.817
557.78	27.465
677.12	28.307
737.28	28.676
776.18	28.900
800.00	29.031
776.18	28.900
737.28	28.676
677.12	28.307
591.68	27.721
505.62	27.038
403.28	26.056
307.52	24.879
216.32	23.351
144.50	21.599
87.12	19.401
50.00	16.990
30.42	14.832
21.78	13.381
23.12	13.640
27.98	14.468
36.98	15.680
42.32	16.265
44.94	16.526
43.06	16.341
40.50	16.075
32.00	15.051
24.50	13.892
15.02	11.765
8.00	9.031

ERP= 800.0 kW

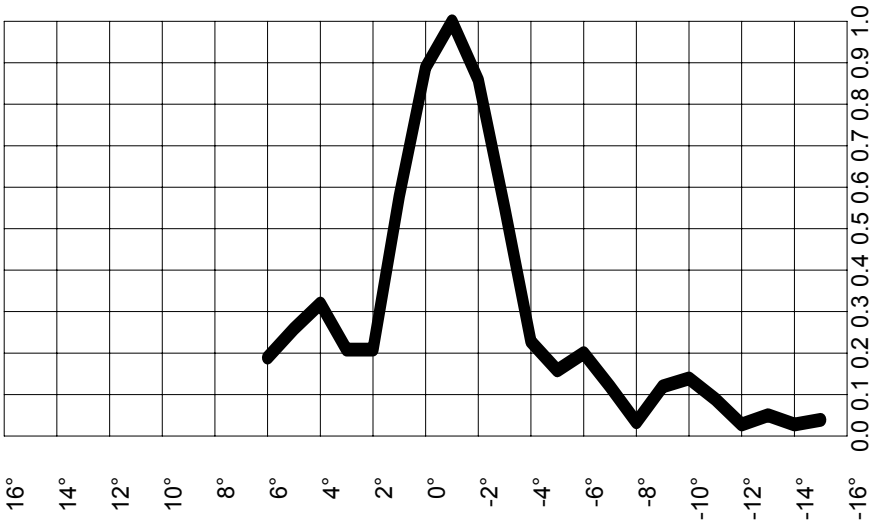
HORIZONTAL PLANE PATTERN



Relative Intensity

VERTICAL PLANE PATTERN

Azimuth: 0.0°



Relative Intensity

Pattern file: WFMZDT_PSIMPTD-10-DCPA-46.PAT