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**WHYY INCORPORATED**

**PHILADELPHIA, PA**

**PERMITTEE OF WHYY-DT CHANNEL 50**

**WILMINGTON, DELAWARE**

**FCC Facility ID #72338**

**FCC FILE Nos. BPEDT-19991217ACA  
BPEXDT-20060127ASC**

**APPLICATION FOR A CONSTRUCTION PERMIT FOR POST DTV  
TRANSITION OPERATION ON CHANNEL 12**

**ENGINEERING EXHIBIT 34**

**February 1, 2008**

**WHYY INCORPORATED**

**PERMITTEE OF WHYY-DT CHANNEL 50**

**APPLICATION FOR A CP FOR POST TRANSITION DIGITAL OPERATION  
ON CHANNEL 12**

**FCC FILE Nos. BPEDT-19991217ACA  
BPEXDT-20060127ASC**

**ENGINEERING EXHIBIT 34**

This application is for a modification of License for WHYY-DT to return post transition to its analog channel, Channel 12.

The post transition operation of WHYY-DT will be on Channel 12 from the currently utilized Channel 50 site and with 9.9 kW directional and with horizontal polarization. The proposed pattern data is included herein and includes tabulations of the azimuth and elevation patterns along with a composite azimuth and elevation plot.

**WHYY INCORPORATED  
WHYY-DT**

**EXHIBIT 34 - TABLE 1**

DIE 18762 (NO ROTATION)

**10 Degree**

Angle	Field	ERP (kW)	ERP (dBk)
0	0.386	1.48	1.688
10	0.41	1.66	2.212
20	0.453	2.03	3.078
30	0.55	2.99	4.764
40	0.676	4.52	6.555
50	0.764	5.78	7.618
60	0.818	6.62	8.211
70	0.893	7.89	8.973
80	0.924	8.45	9.270
90	0.948	8.90	9.493
100	0.978	9.47	9.763
110	0.950	8.93	9.511
120	0.970	9.31	9.692
130	1.000	9.90	9.956
140	0.952	8.97	9.529
150	0.882	7.70	8.866
160	0.842	7.02	8.463
170	0.857	7.27	8.616
180	0.891	7.86	8.954
190	0.900	8.02	9.041
200	0.917	8.32	9.204
210	0.962	9.16	9.620
220	0.990	9.70	9.869
230	0.964	9.20	9.638
240	0.959	9.10	9.593
250	0.948	8.90	9.493
260	0.852	7.19	8.565
270	0.797	6.29	7.986
280	0.737	5.38	7.306
290	0.634	3.98	5.998
300	0.566	3.17	5.013
310	0.509	2.56	4.091
320	0.447	1.98	2.963
330	0.382	1.44	1.598
340	0.366	1.33	1.226
350	0.375	1.39	1.437

**Cardinal**

Angle	Field	ERP (kW)	ERP (dBk)
0	0.40	1.55	1.910
45	0.720	5.13	7.103
90	0.948	8.90	9.493
135	0.976	9.43	9.745
180	0.891	7.86	8.954
225	0.977	9.45	9.754
270	0.797	6.29	7.986
315	0.478	2.26	3.545

**Maxima**

Angle	Field	ERP (kW)	ERP (dBk)
130	1.000	9.90	9.956

**Minima**

Angle	Field	ERP (kW)	ERP (dBk)
340	0.366	1.33	1.226

# WHYY INCORPORATED

## WHYY-DT WILMINGTON DE

### EXHIBIT 34 - TABLE 2

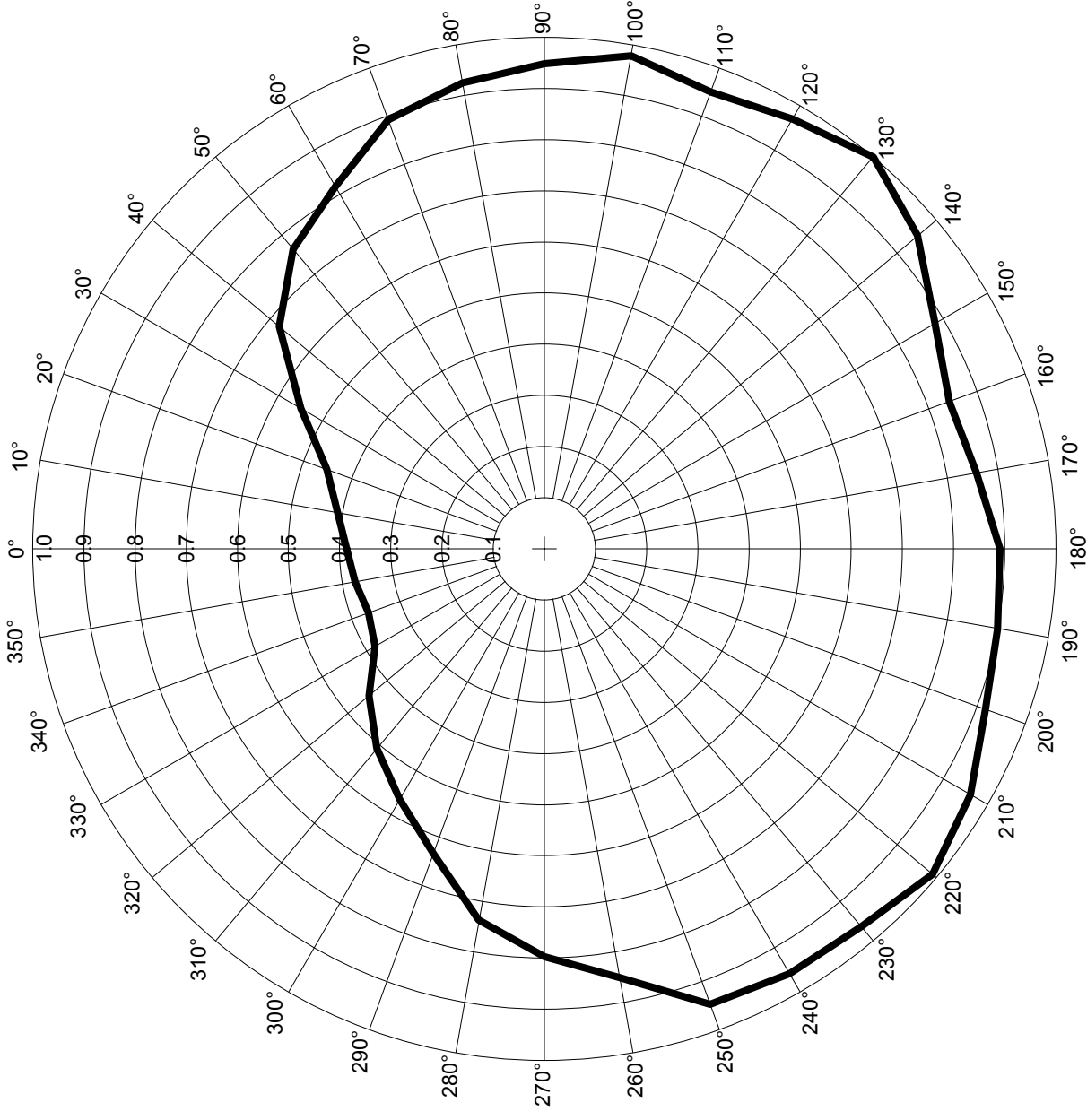
DIE 18762  
ELEVATION PATTERN

#### Elevation

Angle	Field
3.00	0.170
2.50	0.272
2.00	0.431
1.50	0.602
1.00	0.761
0.50	0.888
0.00	0.970
-0.25	0.994
-0.50	0.985
-0.75	0.995
-1.00	0.975
-1.25	0.935
-1.50	0.947
-1.75	0.852
-2.00	0.777
-2.50	0.626
-3.00	0.463
-3.50	0.313
-4.00	0.209
-4.50	0.196
-5.00	0.234
-5.50	0.264
-6.00	0.265
-6.50	0.233
-7.00	0.179
-7.50	0.121
-8.00	0.108
-8.50	0.158
-9.00	0.221
-9.50	0.271
-10.00	0.299
-11.00	0.284

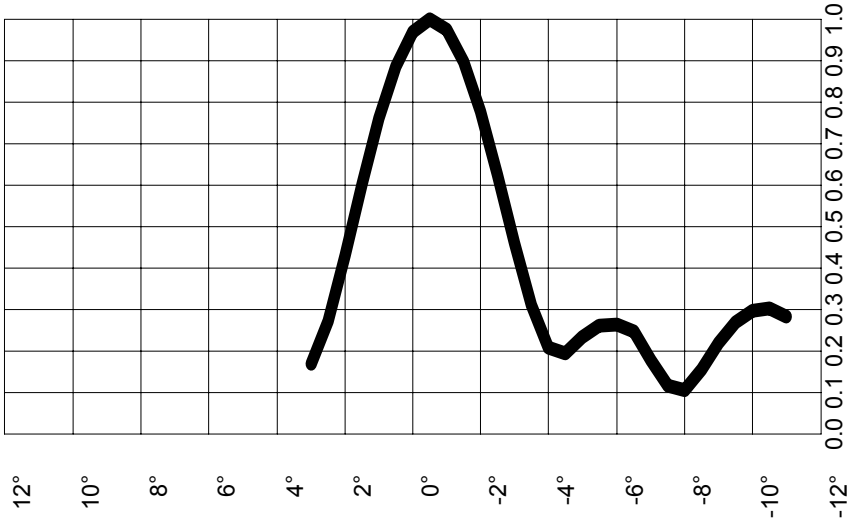
ERP (kW)	ERP (dBk)
0.29	-5.435
0.73	-1.352
1.84	2.646
3.59	5.548
5.73	7.584
7.81	8.925
9.31	9.692
9.78	9.904
9.61	9.825
9.80	9.913
9.41	9.736
8.65	9.373
8.88	9.483
7.19	8.565
5.98	7.765
3.88	5.888
2.12	3.268
0.97	-0.133
0.43	-3.641
0.38	-4.199
0.54	-2.659
0.69	-1.612
0.70	-1.579
0.54	-2.697
0.32	-4.987
0.14	-8.388
0.12	-9.375
0.25	-6.071
0.48	-3.156
0.73	-1.384
0.89	-0.530
0.80	-0.977

HORIZONTAL PLANE PATTERN



VERTICAL PLANE PATTERN

Azimuth: 0.0°



Relative Intensity

Pattern file: DIE\_18762.pat

Relative Intensity