

Larry H. Will, P.E.

Broadcast Engineering

1055 Powderhorn Drive
Glen Mills, PA 19342-9504

PH (610) 399-1826
FAX (610) 399-0995
E-Mail lhwill@verizon.net

WHYY INCORPORATED

PHILADELPHIA, PA

PERMITTEE OF WHYY-DT CHANNEL 55

WILMINGTON, DELAWARE

FCC Facility ID #72338

**FCC FILE Nos. BPEDT-19991217ACA
BDSTA-20030227AED as extended**

MINOR CHANGE

APPLICATION FOR A MINOR MODIFICATION OF CP

PER FCC PUBLIC NOTICE DA 06-1255

REGARDING PRESENT OPERATION

ENGINEERING EXHIBIT 33

June 15, 2006

WHYY INCORPORATED
PERMITTEE OF WHYY-DT CHANNEL 55
APPLICATION FOR A MINOR MODIFICATION OF CP
PER FCC PUBLIC NOTICE DA 06-1255
FCC FILE Nos. BLED-19830722AD
BDSTA-20030227AED as extended
ENGINEERING EXHIBIT 33

DESCRIPTION OF CHANGES

This application for modification of outstanding DTV Construction Permit BPEDT-19991217ACA is being filed pursuant to the terms of FCC PN DA 06-1255. WHYY-DT is currently operating under an STA (BDSTA-20030227AED, as extended, with facilities less than that authorized in BPEDT-19991217ACA.

Specifically, WHYY-DT operates with a slightly different directional antenna and at the authorized HAAT of 259 meters, but with an ERP of 87 kW MAX (DA). The authorized power in BPEDT-19991217ACA is 337 kW. A recent Longley-Rice Study showed that, at the presently authorized STA operation, the facilities of WHYY-DT cover at least 80% of the required coverage for transfer back to the NTSC channel and further, WHYY-DT had previously elected to return to its NTSC Channel, which is Channel 12. This instant modification request, therefore, qualifies for modification of CP BPEDT-19991217ACA and for a subsequent License application for WHYY-DT on Channel 55 until the end of the DTV transition when WHYY-DT expects to return to Channel 12.

WHYY-DT DIRECTIONAL ANTENNA PARAMETERS

Exhibit 33, Figures 1 and 2 and Tables 1 and 2 show the WHYY-DT Channel 55 antenna azimuth and elevation parameters. WHYY-DT is operating with 0.5 degrees electrical beam tilt and no mechanical beam tilt.

**WHYY INCORPORATED
WHYY-DT**

EXHIBIT 33 - TABLE 1

DIE TLP-16JSP(C) (NO ROTATION)

10 Degree

Angle	Field	ERP (kW)	ERP (dBk)
0	0.259	5.84	7.661
10	0.271	6.39	8.055
20	0.324	9.13	9.606
30	0.451	17.70	12.479
40	0.597	31.01	14.915
50	0.710	43.86	16.420
60	0.81	57.08	17.565
70	0.908	71.73	18.557
80	0.972	82.20	19.149
90	0.997	86.48	19.369
100	1.000	87.00	19.395
110	0.979	83.38	19.211
120	0.909	71.89	18.566
130	0.828	59.65	17.756
140	0.773	51.99	17.159
150	0.745	48.29	16.838
160	0.729	46.24	16.650
170	0.751	49.07	16.908
180	0.787	53.89	17.315
190	0.835	60.66	17.829
200	0.898	70.16	18.461
210	0.958	79.85	19.023
220	0.988	84.92	19.290
230	1.000	87.00	19.395
240	0.972	82.20	19.149
250	0.913	72.52	18.605
260	0.806	56.52	17.522
270	0.704	43.12	16.347
280	0.59	30.28	14.812
290	0.450	17.62	12.459
300	0.329	9.42	9.739
310	0.274	6.53	8.150
320	0.254	5.61	7.492
330	0.284	7.02	8.462
340	0.305	8.09	9.081
350	0.284	7.02	8.462

Cardinal

Angle	Field	ERP (kW)	ERP (dBk)
0	0.259	5.84	7.661
45	0.651	36.87	15.667
90	0.997	86.48	19.369
135	0.801	55.82	17.468
180	0.787	53.89	17.315
225	0.994	85.96	19.343
270	0.704	43.12	16.347
315	0.264	6.06	7.827

Maxima

Angle	Field	ERP (kW)	ERP (dBk)
100	1.000	87.00	19.395
230	1.000	87.00	19.395

Minima

Angle	Field	ERP (kW)	ERP (dBk)
320	0.254	5.61	7.492



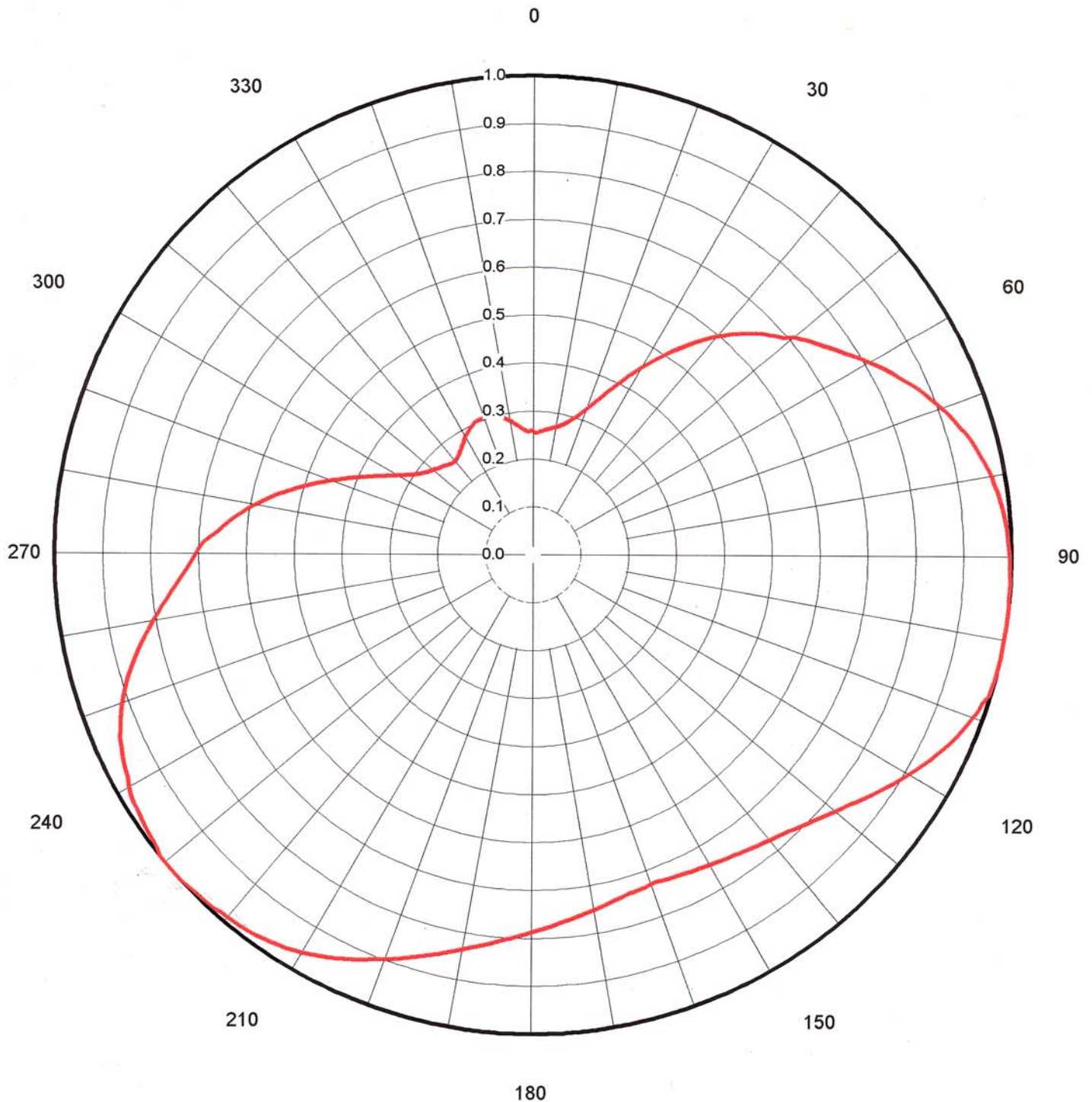
Proposal Number	DCA-8600		
Date	9-Feb-00		
Call Letters	WHYY-DT	Channel	55
Location	Philadelphia, PA		
Customer			
Antenna Type	TLP-16JSP (C)		

FIGURE 1

AZIMUTH PATTERN

Gain	1.90	(2.79 dB)
Calculated / Measured		Calculated

Frequency	719.00 MHz
Drawing #	TLP-J SP



WHYY INCORPORATED

WHYY-DT

EXHIBIT 33 - TABLE 2

DIE TLP-16JSP(C)
ELEVATION PATTERN

BT = 0.5 DEG.

Elevation

Angle	Field	ERP (kW)	ERP (dBk)
3.00	0.234	4.76	6.780
2.50	0.136	1.61	2.066
2.00	0.212	3.91	5.922
1.50	0.423	15.57	11.922
1.00	0.643	35.97	15.559
0.50	0.828	59.65	17.756
0.00	0.954	79.18	18.986
-0.25	0.902	70.78	18.499
-0.50	1.000	87.00	19.395
-0.75	0.990	85.27	19.308
-1.00	0.961	80.35	19.050
-1.25	0.911	72.20	18.586
-1.50	0.845	62.12	17.932
-1.75	0.764	50.78	17.057
-2.00	0.674	39.52	15.968
-2.50	0.474	19.55	12.911
-3.00	0.283	6.97	8.431
-3.50	0.163	2.31	3.639
-4.00	0.168	2.46	3.901
-4.50	0.210	3.84	5.840
-5.00	0.215	4.02	6.044
-5.50	0.177	2.73	4.355
-6.00	0.122	1.29	1.122
-6.50	0.106	0.98	-0.099
-7.00	0.150	1.96	2.917
-7.50	0.199	3.45	5.372
-8.00	0.221	4.25	6.283
-8.50	0.207	3.73	5.715
-9.00	0.164	2.34	3.692
-9.50	0.102	0.91	-0.433
-10.00	0.060	0.31	-5.042

prepared by
Larry H. Will, P.E.
Glen Mills, PA 19342-9504

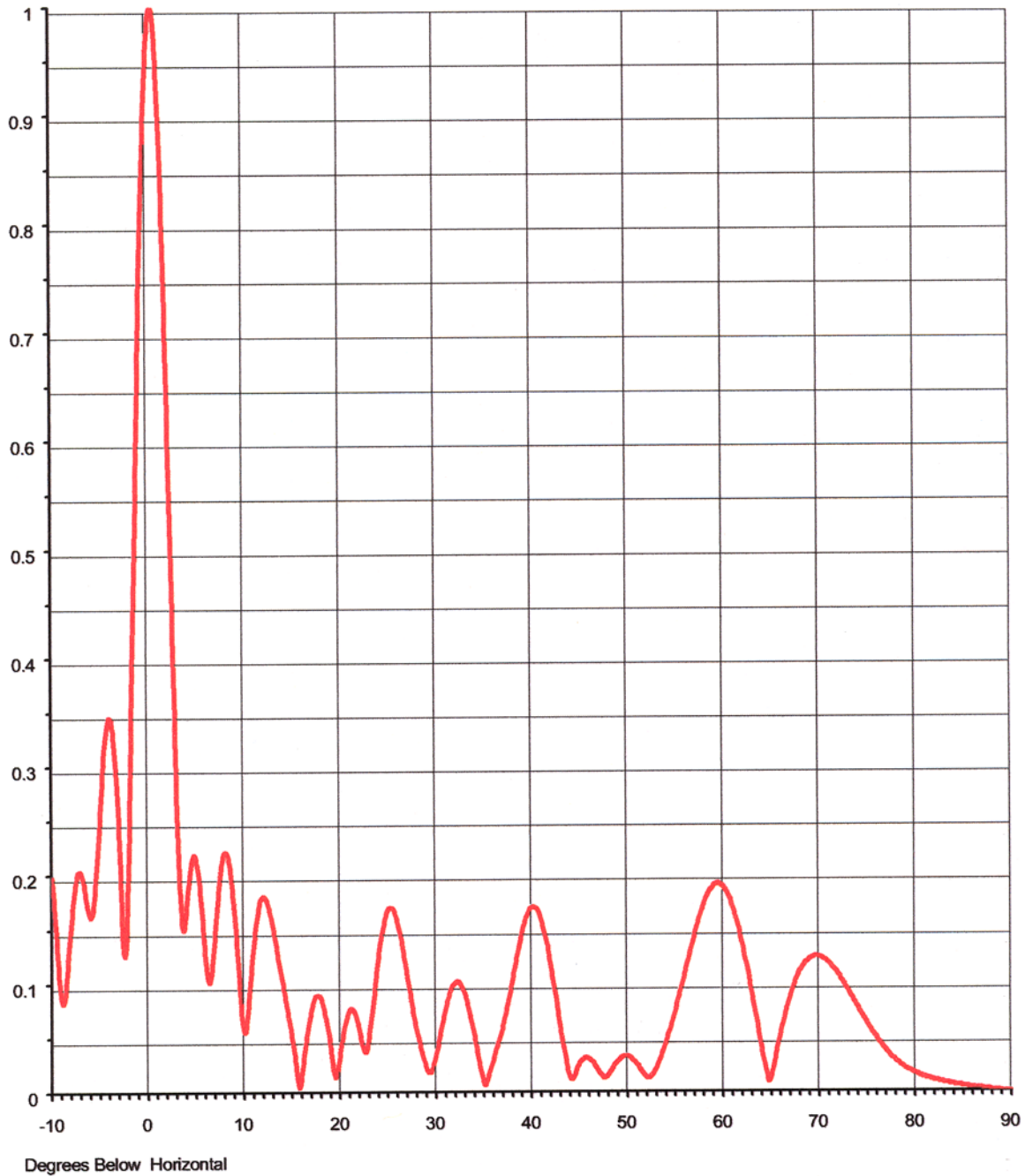
ERP= 87.0 kW
CALL WHYY-DT

Proposal Number **DCA-8600**
Date **9-Feb-00**
Call Letters **WHYY-DT** Channel **55**
Location **Philadelphia, PA**
Customer
Antenna Type **TLP-16JSP (C)**

FIGURE 2

ELEVATION PATTERN

RMS Gain at Main Lot	15.30 (11.85 dB)	Beam Tilt	0.50 deg
RMS Gain at Horizontal	13.90 (11.43 dB)	Frequency	719.00 MHz
Calculated / Measured	Calculated	Drawing #	16L153050-90



Proposal Number: **DCA-8600**
Date: **9-Feb-00**
Call Letters: **WHYY-DT** Channel **55**
Location: **Philadelphia, PA**
Customer:
Antenna Type: **TLP-16JSP (C)**

FIGURE 2A

ELEVATION PATTERN

RMS Gain at Main Lot	15.30 (11.85 dB)	Beam Tilt	0.50 deg
RMS Gain at Horizontal	13.90 (11.43 dB)	Frequency	719.00 MHz
Calculated / Measured	Calculated	Drawing #	16L153050

