

Technical Report W244CU.CP Minor Modification

This technical report is submitted for a minor modification to W244CU.CP, FCC file no. BPFT-20160729ACD, in accordance with FCC 17-14, footnote 22. A 250 mile move and change to channel 256 is submitted. The translator is to serve as a fill-in facility to rebroadcast WJAS(AM) 1320 kHz at Pittsburgh, PA, FCC facility I.D. no. 55705.

W244CU.CP Modification Analysis:

An overlap study in exhibit E-1 shows the W244CU.CP modification to channel 256 is within the WSHH(FM) 259B third adjacent protected contour. A tabulation of the +40 dBu F(50-10) contour to the facility (exhibit E-2) using the vertical elevation pattern of the PSI FMY single bay antenna (exhibit E-3) shows the lowest point above the site elevation = 135.0 meters, which will not reach any population, roads or buildings (exhibit E-4). Based on this showing, a waiver of Section 74.1204 is requested, in accordance with *Living Way Ministries, Inc.* (FCC 08-242). An FMOver tabulation to WMXY(FM) 255B is included in exhibit E-5. The 60 dBu F(50-50) contour is contained within the primary WJAS(AM) 2.0 mV/m daytime contour (exhibit E-6) and is located within 250 miles of the current facility (exhibit E-7).

Antenna System:

The W244CU.CP modification will be relocated to the existing tower, ASR #1022324, at coordinates:

40 26 46N 79 57 51W NAD 27.

A PSI FMY-1 single bay, directional antenna (exhibit E-8) will be mounted at a COR

AGL of 137 meters, 492 meters AMSL and operate at 0.250 kW ERP.

RF Exposure Calculation:

The RF contribution was calculated using the formula from the OET Bulletin 65:

$$S \text{ (RF in microwatts/cm}^2\text{)} = \frac{33.4 \times F^2 \times (H \text{ ERP} + V \text{ ERP in watts})}{R^2 \text{ (height of radiation center in meters}^2\text{)}}$$

Using a worst case vertical (F) factor of 1.0, the RF is calculated to be 0.916 $\mu\text{W}/\text{cm}^2$ to the ground, which is well below 5% of the 200 $\mu\text{W}/\text{cm}^2$ maximum permissible for general public exposure allowing exclusion from consideration.

Conclusion:

It is concluded that the W244CU.CP modification complies with all Commission rules and policies.



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E-1 W244CU.CP Mod. to Ch. 256 Overlap Study

REFERENCE 40 26 46.0 N. 79 57 51.0 W.		CH# 256D - 99.1 MHz, Pwr= 0.099 kW DA, HAAT= 187.0 M, COR= 492 M Average Protected F(50-50)= 14.04 km Standard Directional							DISPLAY DATES DATA 05-04-17 SEARCH 05-04-17		
CH CITY	CALL	TYPE ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT* in km	
259B Pittsburgh	WSHH	LIC _C_ PA	299.3 119.3	3.90 BLH20140114AFD	40 27 48.0 80 00 16.0	17.000 260	5.9 570	67.4 Renda Broadcasting Corpora	-14.4*	-64.3*(1)	
256B Ebensburg	WRKW	LIC _CN PA	91.8 272.6	100.73 BMLH19960724KA	40 24 41.0 78 46 29.0	50.000 152	139.5 758	65.0 Fm Radi o Li censes, Li c	-46.4*	1.1	
255B Youngstown	WMXY	LIC _CN OH	320.0 139.6	88.88 BLH19890405KE	41 03 24.0 80 38 44.0	5.900 418	76.4 745	64.4 Cit icasters Li censes, Inc.	1.0	0.3	
254B Wheeling	WOVK	LIC DCN WV	239.7 59.2	79.52 BLH7660	40 04 58.0 80 46 18.0	50.000 119	8.0 576	76.8 Capstar Tx, Li c	57.2	1.3	
257A Uniontown	WPKL	LIC _CX PA	165.5 345.6	64.33 BMLH20050920ADL	39 53 09.0 79 46 29.0	3.000 90	42.8 479	28.4 Fm Radi o Li censes, Li c	10.9	21.9	
257D Weirton	W257BP	LIC _C_ WV	258.5 78.1	56.76 BLFT20070629CEQ	40 20 33.0 80 37 14.0	0.004 198	9.2 516	6.3 Educati onal Medi a Foundati	33.3	28.7	
256L1 Benwood	WDUQ-LP	LIC ____ WV	231.8 51.4	80.90 BLL20140625AKU	39 59 39.0 80 42 40.0	0.006 118	406	Kol Ami Havurah	49.0	29.7	
254D Latrobe	W254CR	LIC DV_ PA	98.5 278.8	42.83 BLFT20160901AAN	40 23 18.0 79 27 50.0	0.150	0.5 465	8.2 Lhtc Medi a, Inc	35.4	34.2	
257B1 Franklin	WHMJ	LIC _CN PA	1.7 181.7	110.30 BLH19891121KC	41 26 16.0 79 55 29.0	7.300 183	59.9 598	46.4 Fm Radi o Li censes, Li c	35.9	37.8	

Terrain database is NGDC 30 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference zone= East Zone, Co to 3rd adjacent.
All separation margins (if shown) include rounding.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
"*"affixed to 'IN' or 'OUT' values = site inside restricted contour.

(1) The W244CU.CP Mod. 144.97 +40 dBu F(50-10) contour lowest point within the WSHH(FM) 259B second adjacent protected contour = 135.0 meters.

E-2 W244CU.CP Mod. +40 dBu Tabulation Within WSHH(FM) 259B

W244CU.C Pittsburgh, PA
74.1204(d) Showing
Translator or LPFM Maximum Licensed ERP = 0.099
Translator or LPFM Antenna Height AG = 137 Meters
W244CU.C Antenna Model = PSI FML-1

Protected Station's Contour = 104.967 dBu
Translator's or LPFM's full Interference contour 144.967

Review Azimuth = 0 Degrees True
Relative Field on the horizon at Review Azimuth = 1.000
Translator/LPFM ERP on the horizon at Review Azimuth = 0.099 kW
Distance between stations = 3.9 km
Protected Station= WSHH, 17 kW, 570 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle (m)	Dist to IX Contour From Tower Base (m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.0990	003.9397	003.9397	137.000
05.00	0.996	1.0	0.0982	003.9240	003.9090	136.658
10.00	0.985	1.0	0.0961	003.8806	003.8217	136.326
15.00	0.966	1.0	0.0924	003.8058	003.6761	136.015
20.00	0.94	1.0	0.0875	003.7034	003.4800	135.733
25.00	0.906	1.0	0.0813	003.5694	003.2350	135.492
30.00	0.866	1.0	0.0742	003.4118	002.9547	135.294
35.00	0.819	1.0	0.0664	003.2266	002.6431	135.149
40.00	0.766	1.0	0.0581	003.0178	002.3118	135.060
45.00	0.707	1.0	0.0495	002.7854	001.9696	135.030 (1)
50.00	0.643	1.0	0.0409	002.5333	001.6283	135.059
55.00	0.573	1.0	0.0325	002.2575	001.2948	135.151
60.00	0.5	1.0	0.0248	001.9699	000.9849	135.294
65.00	0.423	1.0	0.0177	001.6665	000.7043	135.490
70.00	0.342	1.0	0.0116	001.3474	000.4608	135.734
75.00	0.259	1.0	0.0066	001.0204	000.2641	136.014
80.00	0.174	1.0	0.0030	000.6855	000.1190	136.325
85.00	0.087	1.0	0.0007	000.3428	000.0299	136.659
90.00	0.001	1.0	0.0000	000.0039	000.0000	136.996

(1) The 144.97 +40 dBu F(50-10) contour lowest point above the site elevation = 135.0 meters.

E-3 W244CU.CP Mod. Antenna Vertical Elevation Pattern and Tabulation





Propagation Systems Inc.
Elevation Pattern Tabulation
Antenna: PSIFML-1

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
-90.0	0.001	-60.000	-50.0	0.643	-3.839	-10.0	0.985	-0.134
-89.0	0.017	-35.177	-49.0	0.656	-3.663	-9.0	0.988	-0.109
-88.0	0.035	-29.156	-48.0	0.669	-3.490	-8.0	0.990	-0.086
-87.0	0.052	-25.634	-47.0	0.682	-3.325	-7.0	0.992	-0.066
-86.0	0.070	-23.136	-46.0	0.695	-3.166	-6.0	0.994	-0.049
-85.0	0.087	-21.198	-45.0	0.707	-3.012	-5.0	0.996	-0.034
-84.0	0.104	-19.626	-44.0	0.719	-2.862	-4.0	0.997	-0.022
-83.0	0.122	-18.286	-43.0	0.731	-2.719	-3.0	0.998	-0.013
-82.0	0.139	-17.134	-42.0	0.743	-2.580	-2.0	0.999	-0.007
-81.0	0.156	-16.117	-41.0	0.755	-2.445	-1.0	1.000	-0.003
-80.0	0.174	-15.207	-40.0	0.766	-2.316	0.0	1.000	0.000
-79.0	0.191	-14.390	-39.0	0.777	-2.190	1.0	1.000	-0.003
-78.0	0.208	-13.644	-38.0	0.788	-2.071	2.0	0.999	-0.007
-77.0	0.225	-12.962	-37.0	0.798	-1.955	3.0	0.998	-0.013
-76.0	0.242	-12.330	-36.0	0.809	-1.842	4.0	0.997	-0.022
-75.0	0.259	-11.741	-35.0	0.819	-1.733	5.0	0.996	-0.034
-74.0	0.276	-11.194	-34.0	0.829	-1.630	6.0	0.994	-0.049
-73.0	0.292	-10.684	-33.0	0.839	-1.529	7.0	0.992	-0.066
-72.0	0.309	-10.203	-32.0	0.848	-1.432	8.0	0.990	-0.086
-71.0	0.325	-9.750	-31.0	0.857	-1.339	9.0	0.988	-0.109
-70.0	0.342	-9.320	-30.0	0.866	-1.251	10.0	0.985	-0.134
-69.0	0.358	-8.914	-29.0	0.875	-1.164	11.0	0.982	-0.162
-68.0	0.375	-8.530	-28.0	0.883	-1.082	12.0	0.978	-0.193
-67.0	0.391	-8.165	-27.0	0.891	-1.003	13.0	0.974	-0.227
-66.0	0.407	-7.815	-26.0	0.899	-0.928	14.0	0.970	-0.263
-65.0	0.423	-7.482	-25.0	0.906	-0.855	15.0	0.966	-0.301
-64.0	0.438	-7.164	-24.0	0.913	-0.786	16.0	0.961	-0.344
-63.0	0.454	-6.860	-23.0	0.920	-0.720	17.0	0.956	-0.389
-62.0	0.469	-6.569	-22.0	0.927	-0.657	18.0	0.951	-0.436
-61.0	0.485	-6.291	-21.0	0.933	-0.598	19.0	0.945	-0.487
-60.0	0.500	-6.023	-20.0	0.940	-0.542	20.0	0.940	-0.540
-59.0	0.515	-5.764	-19.0	0.945	-0.487	21.0	0.933	-0.598
-58.0	0.530	-5.517	-18.0	0.951	-0.437	22.0	0.927	-0.657
-57.0	0.545	-5.279	-17.0	0.956	-0.389	23.0	0.920	-0.720
-56.0	0.559	-5.050	-16.0	0.961	-0.344	24.0	0.913	-0.786
-55.0	0.573	-4.830	-15.0	0.966	-0.301	25.0	0.906	-0.855
-54.0	0.588	-4.616	-14.0	0.970	-0.263	26.0	0.899	-0.927
-53.0	0.602	-4.413	-13.0	0.974	-0.227	27.0	0.891	-1.003
-52.0	0.616	-4.214	-12.0	0.978	-0.193	28.0	0.883	-1.082
-51.0	0.629	-4.024	-11.0	0.982	-0.162	29.0	0.875	-1.164
						30.0	0.866	-1.251

file: FML 1-bay elevation tabulation

revision: A

Date: 1/28/08



Google Earth

feet
meters | 100 40



E-5 W244CU.CP Mod. FMOver Tabulation to WMXY(FM) 255B

W244CU.C

WMXY BLH19890405KE

Channel = 256D

Max ERP = 0.099 kW

RCAMSL = 492 m

N. Lat. 40 26 46.0

W. Lng. 79 57 51.0

Protected

60 dBu

Terrain Data: NGDC 30 SEC

Channel = 255B

Max ERP = 5.9 kW

RCAMSL = 745 m

N. Lat. 41 03 24.0

W. Lng. 80 38 44.0

Interfering

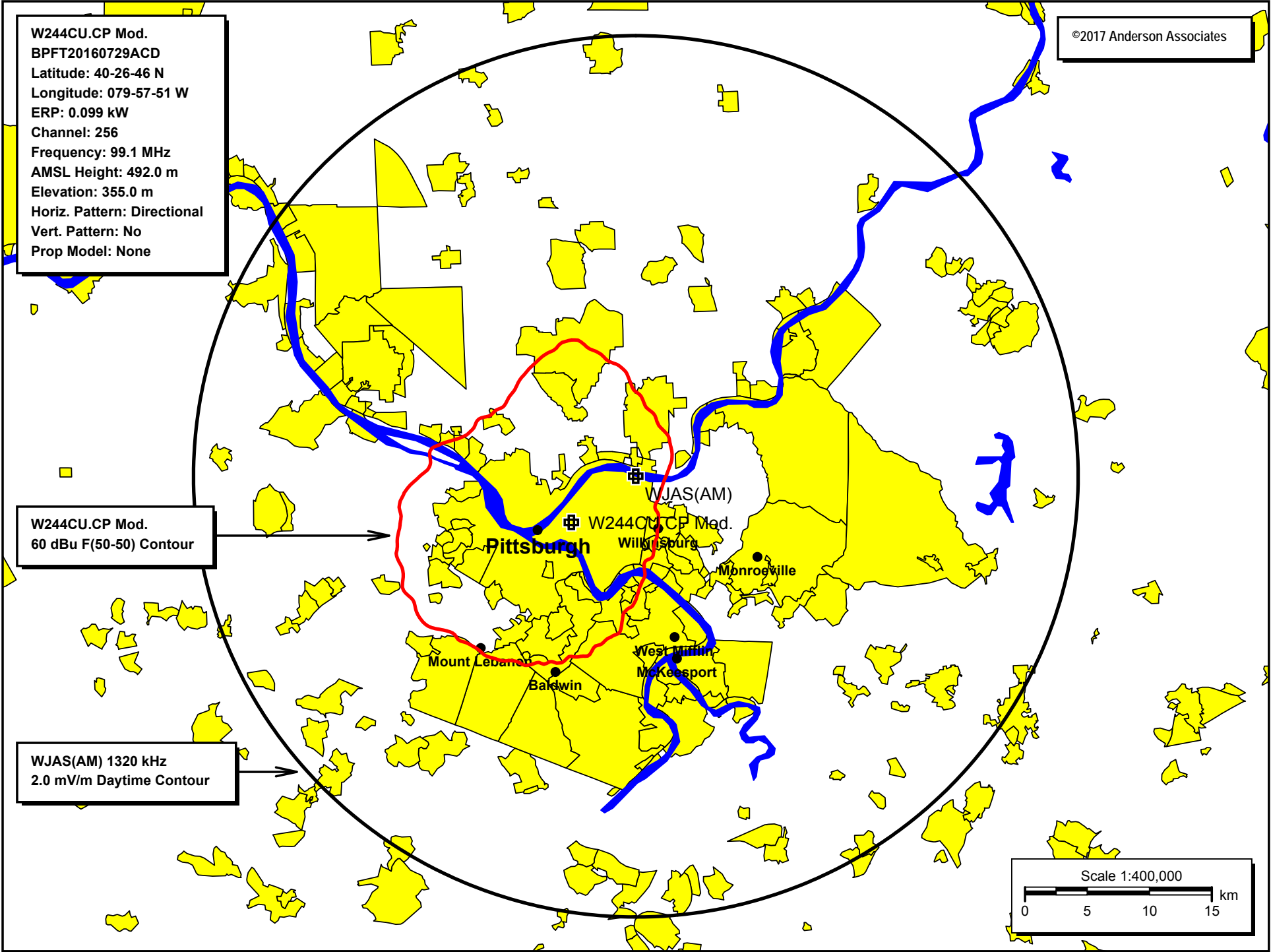
54 dBu

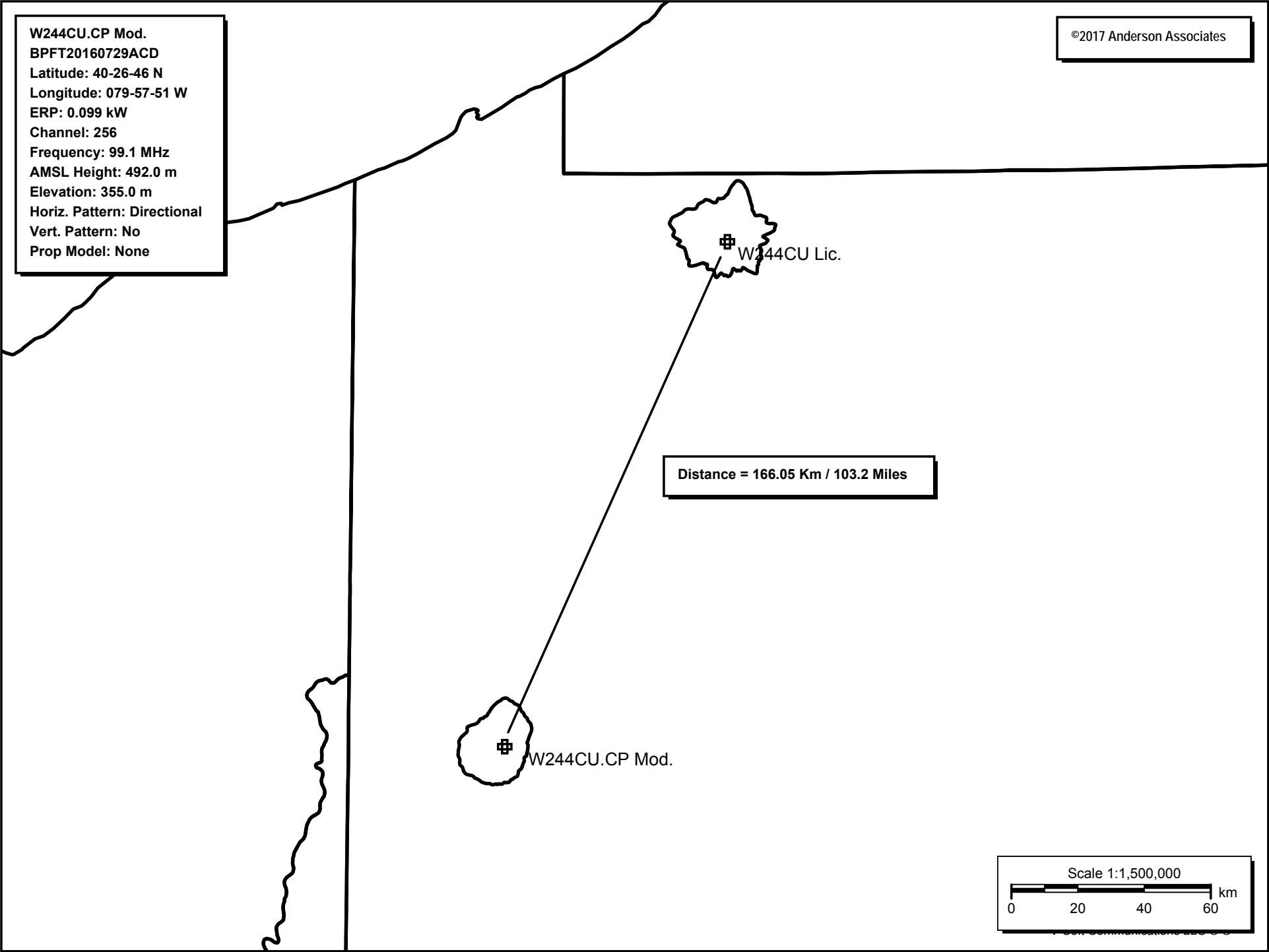
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
260.0	000.0990	0194.0	014.3	148.2	005.9000	0402.0	082.7	52.03	
261.0	000.0972	0193.0	014.2	148.0	005.9000	0401.9	082.5	52.09	
262.0	000.0955	0193.1	014.1	147.9	005.9000	0401.9	082.3	52.16	
263.0	000.0937	0194.0	014.1	147.8	005.9000	0401.8	082.1	52.23	
264.0	000.0920	0195.2	014.1	147.8	005.9000	0401.7	081.9	52.30	
265.0	000.0903	0195.8	014.0	147.7	005.9000	0401.6	081.7	52.36	
266.0	000.0886	0195.8	014.0	147.5	005.9000	0401.5	081.5	52.42	
267.0	000.0869	0196.1	013.9	147.4	005.9000	0401.4	081.3	52.48	
268.0	000.0853	0195.9	013.8	147.3	005.9000	0401.3	081.1	52.54	
269.0	000.0836	0196.2	013.8	147.2	005.9000	0401.2	080.9	52.59	
270.0	000.0820	0196.8	013.7	147.1	005.9000	0401.0	080.8	52.65	
271.0	000.0793	0197.4	013.6	146.9	005.9000	0400.9	080.6	52.70	
272.0	000.0765	0198.6	013.6	146.8	005.9000	0400.7	080.5	52.74	
273.0	000.0737	0202.4	013.6	146.7	005.9000	0400.6	080.3	52.80	
274.0	000.0712	0207.3	013.6	146.6	005.9000	0400.5	080.0	52.87	
275.0	000.0685	0211.9	013.6	146.5	005.9000	0400.4	079.8	52.93	
276.0	000.0661	0214.2	013.6	146.4	005.9000	0400.2	079.7	52.98	
277.0	000.0637	0215.6	013.5	146.2	005.9000	0400.0	079.6	53.02	
278.0	000.0612	0215.4	013.4	146.0	005.9000	0399.8	079.5	53.04	
279.0	000.0588	0215.1	013.2	145.8	005.9000	0399.5	079.4	53.06	
280.0	000.0564	0215.9	013.1	145.7	005.9000	0399.3	079.3	53.09	
281.0	000.0542	0216.6	013.0	145.5	005.9000	0399.1	079.2	53.11	
282.0	000.0522	0217.3	012.9	145.3	005.9000	0398.9	079.1	53.14	
283.0	000.0500	0217.4	012.8	145.2	005.9000	0398.7	079.1	53.15	
284.0	000.0481	0217.0	012.7	145.0	005.9000	0398.5	079.0	53.16	
285.0	000.0462	0216.2	012.5	144.8	005.9000	0398.3	079.0	53.17	
286.0	000.0442	0216.3	012.4	144.6	005.9000	0398.2	078.9	53.18	
287.0	000.0423	0216.8	012.3	144.4	005.9000	0398.0	078.9	53.19	
288.0	000.0404	0216.9	012.1	144.2	005.9000	0397.8	078.9	53.19	
289.0	000.0387	0216.9	012.0	144.1	005.9000	0397.7	078.8	53.19	
290.0	000.0368	0217.3	011.9	143.9	005.9000	0397.5	078.8	53.19	
291.0	000.0366	0218.1	011.9	143.8	005.9000	0397.4	078.7	53.23	
292.0	000.0362	0219.9	011.9	143.6	005.9000	0397.3	078.6	53.27	
293.0	000.0360	0223.7	012.0	143.5	005.9000	0397.2	078.4	53.33	
294.0	000.0356	0230.2	012.1	143.5	005.9000	0397.2	078.2	53.40	
295.0	000.0353	0238.4	012.3	143.4	005.9000	0397.1	077.9	53.49	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
296.0	000.0350	0246.1	012.5	143.3	005.9000	0397.0	077.7	53.57
297.0	000.0347	0250.6	012.5	143.2	005.9000	0397.0	077.5	53.62
298.0	000.0345	0251.3	012.5	143.0	005.9000	0396.9	077.4	53.65
299.0	000.0341	0248.9	012.5	142.9	005.9000	0396.7	077.4	53.65
300.0	000.0339	0243.7	012.3	142.7	005.9000	0396.6	077.4	53.63
301.0	000.0343	0236.3	012.2	142.5	005.9000	0396.5	077.5	53.61
302.0	000.0349	0227.5	012.0	142.3	005.9000	0396.4	077.6	53.58
303.0	000.0355	0218.6	011.8	142.1	005.9000	0396.3	077.7	53.55
304.0	000.0360	0210.5	011.6	141.9	005.9000	0396.2	077.8	53.51
305.0	000.0365	0202.8	011.5	141.8	005.9000	0396.2	077.9	53.48
306.0	000.0371	0195.9	011.3	141.6	005.9000	0396.1	077.9	53.45
307.0	000.0377	0189.9	011.2	141.4	005.9000	0396.1	078.0	53.42
308.0	000.0382	0184.9	011.1	141.3	005.9000	0396.0	078.1	53.41
309.0	000.0387	0180.4	011.0	141.1	005.9000	0396.0	078.1	53.39
310.0	000.0393	0176.8	011.0	141.0	005.9000	0395.9	078.1	53.38
311.0	000.0402	0174.2	010.9	140.8	005.9000	0395.9	078.1	53.38
312.0	000.0409	0172.0	010.9	140.7	005.9000	0395.9	078.1	53.38
313.0	000.0418	0170.1	010.9	140.5	005.9000	0395.8	078.1	53.39
314.0	000.0426	0168.9	010.9	140.4	005.9000	0395.8	078.0	53.40
315.0	000.0435	0169.4	011.0	140.3	005.9000	0395.8	078.0	53.43
316.0	000.0443	0170.8	011.1	140.1	005.9000	0395.8	077.8	53.47
317.0	000.0451	0171.4	011.1	140.0	005.9000	0395.8	077.8	53.50
318.0	000.0460	0170.4	011.2	139.9	005.9000	0395.8	077.7	53.51
319.0	000.0469	0167.9	011.1	139.7	005.9000	0395.7	077.8	53.50
320.0	000.0478	0164.4	011.1	139.6	005.9000	0395.7	077.8	53.47
321.0	000.0485	0161.0	011.0	139.4	005.9000	0395.7	077.9	53.44
322.0	000.0492	0158.1	010.9	139.3	005.9000	0395.7	078.0	53.42
323.0	000.0499	0156.4	010.9	139.1	005.9000	0395.7	078.0	53.40
324.0	000.0506	0156.1	010.9	139.0	005.9000	0395.6	078.0	53.41
325.0	000.0513	0156.3	010.9	138.9	005.9000	0395.6	078.0	53.41
326.0	000.0520	0155.8	011.0	138.7	005.9000	0395.6	078.0	53.41
327.0	000.0528	0154.4	010.9	138.6	005.9000	0395.6	078.0	53.40
328.0	000.0535	0152.5	010.9	138.5	005.9000	0395.5	078.1	53.37
329.0	000.0542	0151.4	010.9	138.3	005.9000	0395.5	078.1	53.36
330.0	000.0549	0151.4	010.9	138.2	005.9000	0395.4	078.1	53.36
331.0	000.0564	0152.0	011.0	138.0	005.9000	0395.4	078.1	53.37
332.0	000.0578	0153.0	011.1	137.9	005.9000	0395.3	078.0	53.39
333.0	000.0592	0154.6	011.3	137.7	005.9000	0395.3	078.0	53.41
334.0	000.0607	0155.5	011.4	137.5	005.9000	0395.2	077.9	53.43
335.0	000.0623	0155.9	011.4	137.4	005.9000	0395.2	077.9	53.44
336.0	000.0637	0156.3	011.5	137.2	005.9000	0395.1	077.9	53.44
337.0	000.0651	0158.0	011.7	137.1	005.9000	0395.1	077.8	53.46
338.0	000.0667	0161.0	011.9	136.9	005.9000	0395.0	077.7	53.49
339.0	000.0684	0164.5	012.1	136.7	005.9000	0395.0	077.6	53.53
340.0	000.0699	0167.1	012.2	136.5	005.9000	0394.9	077.5	53.55
341.0	000.0717	0168.8	012.4	136.3	005.9000	0394.9	077.5	53.57
342.0	000.0737	0169.9	012.5	136.1	005.9000	0394.8	077.5	53.57
343.0	000.0756	0171.3	012.6	135.9	005.9000	0394.8	077.4	53.58
344.0	000.0777	0172.7	012.8	135.7	005.9000	0394.7	077.4	53.58
345.0	000.0797	0173.7	012.9	135.5	005.9000	0394.7	077.4	53.58
346.0	000.0818	0173.9	013.0	135.4	005.9000	0394.7	077.5	53.57

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
347.0	000.0838	0174.6	013.1	135.2	005.9000	0394.6	077.5	53.56
348.0	000.0860	0176.2	013.2	135.0	005.9000	0394.6	077.5	53.56
349.0	000.0880	0178.2	013.4	134.8	005.9000	0394.6	077.5	53.55
350.0	000.0903	0180.3	013.5	134.6	005.9000	0394.6	077.5	53.55
351.0	000.0910	0182.8	013.6	134.4	005.9000	0394.5	077.5	53.54
352.0	000.0920	0184.7	013.7	134.2	005.9000	0394.5	077.6	53.51
353.0	000.0930	0186.3	013.8	134.0	005.9000	0394.5	077.7	53.49
354.0	000.0937	0187.6	013.9	133.8	005.9000	0394.5	077.8	53.45
355.0	000.0945	0191.4	014.0	133.6	005.9000	0394.5	077.8	53.44
356.0	000.0955	0197.1	014.3	133.4	005.9000	0394.5	077.8	53.44
357.0	000.0964	0200.7	014.4	133.2	005.9000	0394.5	077.9	53.43
358.0	000.0972	0201.2	014.5	133.0	005.9000	0394.5	078.0	53.38
359.0	000.0980	0202.1	014.5	132.8	005.9000	0394.5	078.1	53.33
000.0	000.0990	0202.5	014.6	132.7	005.9000	0394.5	078.3	53.28
001.0	000.0978	0203.4	014.6	132.6	005.9000	0394.5	078.5	53.21
002.0	000.0966	0204.2	014.6	132.5	005.9000	0394.5	078.7	53.15
003.0	000.0955	0202.1	014.4	132.4	005.9000	0394.5	078.9	53.05
004.0	000.0943	0198.8	014.3	132.4	005.9000	0394.5	079.2	52.95
005.0	000.0931	0194.6	014.1	132.4	005.9000	0394.5	079.5	52.85
006.0	000.0920	0192.1	014.0	132.3	005.9000	0394.5	079.8	52.76
007.0	000.0909	0190.9	013.9	132.3	005.9000	0394.5	080.1	52.67
008.0	000.0897	0190.3	013.8	132.2	005.9000	0394.4	080.3	52.60
009.0	000.0886	0188.8	013.7	132.2	005.9000	0394.4	080.5	52.51
010.0	000.0875	0187.3	013.6	132.1	005.9000	0394.4	080.8	52.43
011.0	000.0858	0184.8	013.5	132.1	005.9000	0394.4	081.1	52.33
012.0	000.0842	0181.8	013.3	132.1	005.9000	0394.4	081.4	52.23
013.0	000.0825	0181.0	013.2	132.1	005.9000	0394.4	081.6	52.15
014.0	000.0809	0181.9	013.2	132.1	005.9000	0394.4	081.8	52.08
015.0	000.0793	0182.8	013.2	132.0	005.9000	0394.4	082.0	52.00
016.0	000.0777	0184.0	013.1	132.0	005.9000	0394.4	082.3	51.93
017.0	000.0761	0184.2	013.1	131.9	005.9000	0394.4	082.5	51.85
018.0	000.0746	0183.7	013.0	131.9	005.9000	0394.4	082.7	51.77
019.0	000.0731	0182.9	012.9	131.9	005.9000	0394.4	083.0	51.69

E-6 W244CU.CP Mod. 60 dBu Contour Plot



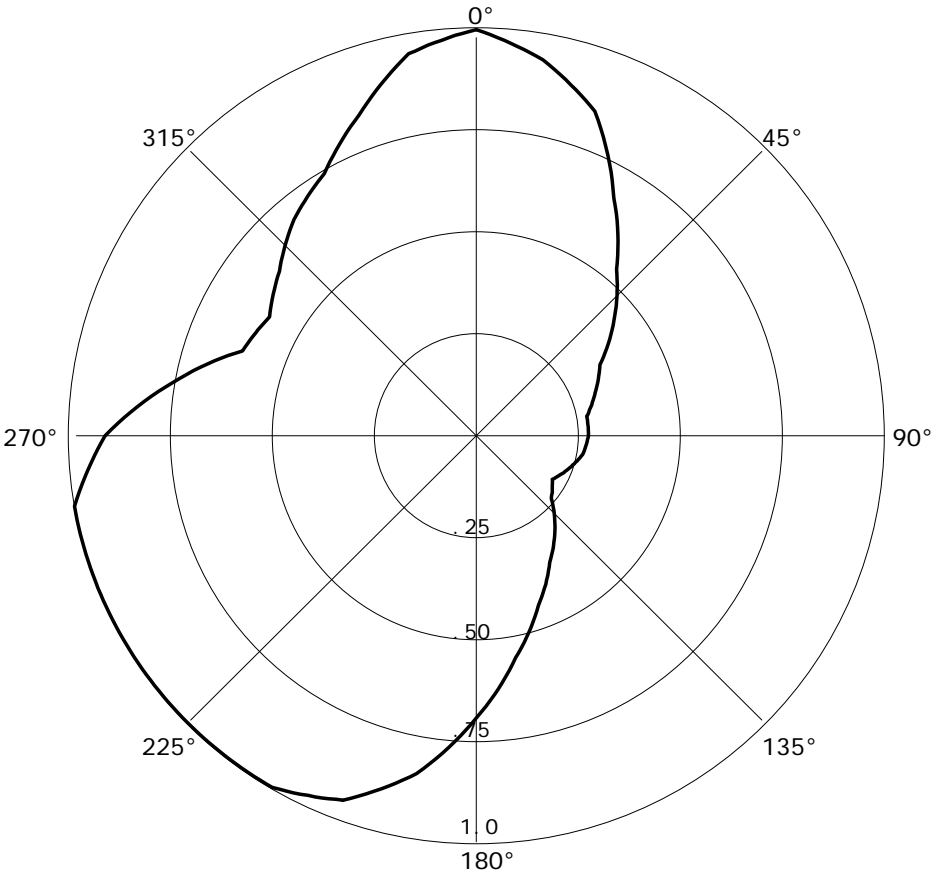


E-8 W244CU.CP Mod. Directional Antenna Pattern

RMS(V) = .709

Graph is Relative Field

Azi	Field	dBk	kW
000	1.000	-10.044	0.099
010	0.940	-10.581	0.087
020	0.850	-11.455	0.072
030	0.675	-13.458	0.045
040	0.535	-15.477	0.028
050	0.440	-17.175	0.019
060	0.350	-19.162	0.012
070	0.310	-20.216	0.010
080	0.275	-21.257	0.007
090	0.275	-21.257	0.007
100	0.265	-21.579	0.007
110	0.240	-22.439	0.006
120	0.215	-23.395	0.005
130	0.240	-22.439	0.006
140	0.300	-20.501	0.009
150	0.360	-18.918	0.013
160	0.445	-17.076	0.020
170	0.555	-15.158	0.030
180	0.695	-13.204	0.048
190	0.845	-11.507	0.071
200	0.955	-10.444	0.090
210	1.000	-10.044	0.099
220	1.000	-10.044	0.099
230	1.000	-10.044	0.099
240	1.000	-10.044	0.099
250	1.000	-10.044	0.099
260	1.000	-10.044	0.099
270	0.910	-10.863	0.082
280	0.755	-12.485	0.056
290	0.610	-14.337	0.037
300	0.585	-14.701	0.034
310	0.630	-14.057	0.039
320	0.695	-13.204	0.048
330	0.745	-12.601	0.055
340	0.840	-11.558	0.070
350	0.955	-10.444	0.090



ASR Registration 1022324

Registration Detail

Reg Number	1022324	Status	Constructed
File Number	A0827304	Constructed	08/01/1972
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Commu

Location (in NAD83 Coordinates)

Lat/Long	40-26-46.0 N 079-57-50.0 W	Address	3801 University Drive
City, State	PITTSBURGH , PA		
Zip	15219	County	ALLEGHENY
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
355.0	173.7
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
528.7	157.8

Painting and Lighting Specifications

FAA Chapters 3, 4, 5, 13

Paint and Light in Accordance with FAA Circular Number 70/7460-1J

FAA Notification

FAA Study	2011-AEA-2629-OE	FAA Issue Date	09/15/2011
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Owner & Contact Information

FRN	0003189461	Owner Entity Type	
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Owner

WQED MULTIMEDIA	P: (412)622-1300
Attention To: PAUL BYERS	F:
4802 FIFTH AVENUE	E: PBYERS@WQED.ORG
PITTSBURGH , PA 15213	

Contact

MILLER , LAWRENCE M ESQ	P: (202)833-1700
1233 20TH STREET, NW, SUITE 610	F:
WASHINGTON , DC 20036-7322	E: MILLER@SWMLAW.COM

Last Action Status

Status	Constructed	Received	02/12/2013
Purpose	Notification	Entered	02/12/2013
Mode	Interactive		