

# Exhibit 18.1

## Tabulation of Proposed NCE-FM Allocation

Penfold Communications, Inc. CH# 205B1 - 88.9 MHz, Pwr= 11 kW DA, HAAT= 80.9 M, COR= 282 M Average Protected F(50-50)= 29.35 km Standard Directional										
REFERENCE									DISPLAY DATES	
41 25 39.0 N.									DATA 05-31-11	
83 36 30.0 W.									SEARCH 06-02-11	
CH CITY	CALL	TYPE STATE	ANT AZI ---	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
205A Weston	WTPG	CP DCX OH	194.3 14.3	18.1 BNPED20071022DXR	41 16 11.0 83 39 43.0	3.000 77	71.5 285	21.5 Penfold Communications, In	-69.8*<	-60.0*<
12/10/2008: Accepted on channel 205B1 by Industry Canada in 11/24/2008 letter as a specially negotiated, short-spaced allotment. Note: no limitation imposed.										
204C1 Windsor	CIMX-FM	OP DHN ON	31.5 212.0	97.2 3953	42 10 15.0 82 59 29.0	100.000 189	90.7 373	74.7 Cimx-fm	-23.7*<	-42.3*<
205A Tiffin	WHEI	LIC HN OH	133.1 313.3	50.5 BLED19960621KA	41 06 59.0 83 10 03.0	0.100 18	18.8 256	5.7 Heidelberg College	18.8	0.2
Specially negotiated, short-spaced allotment-Accepted by Canada 930322										
202A Toledo	WXUT	LIC HN OH	358.6 178.6	25.5 BLED19901120KF	41 39 26.0 83 36 57.0	0.100 58	0.7 248	7.8 University Of Toledo	0.3	15.3
PROPOSES SHARE-TIME WITH WXTSFM										
207A Maumee	WYSZ	LIC DEN OH	341.7 161.7	25.9 BLED19921113KA	41 38 55.0 83 42 22.0	2.450 93	2.0 290	22.1 Side By Side, Inc.	0.4	1.5
Ltd to 2KW ERP & 116M HAAT in direction of 45 degrees & 56 degrees true. This is to protect channels 204C1 & 210C1 at Windsor, ON and channel 207B at Chatham, ON.										
205A Glandorf	WJTA	LIC DCN OH	223.3 43.0	50.9 BLED20100823ACO	41 05 36.0 84 01 30.0	2.000 55	23.6 281	7.0 Holy Family Communications	14.8	0.4
202A Toledo	WXTS-FM	LIC CN OH	9.5 189.6	27.2 BLED19811130AM	41 40 07.0 83 33 15.0	0.105 38	0.7 224	6.1 Board Of Education Toledo	0.7	18.6
SPECIAL NEGOTIATED SHORT-SPACED ALLOTMENT										
206B1 Ypsilanti	WEMU	LIC DCN MI	359.1 179.1	92.9 BLED19920109KA	42 15 48.0 83 37 34.0	15.500 88	56.5 331	37.1 Eastern Michigan Universit	11.8	18.5
202A North Baltimore	WLFC	LIC DCX OH	171.1 351.1	34.8 BLED20101004ACH	41 07 04.0 83 32 38.0	4.600 100	0.9 334	12.1 The University of Findlay	15.4	21.0
203B1 Wauseon	WYSA	LIC DC OH	287.0 106.6	50.3 BLED19960411KA	41 33 29.0 84 11 08.0	10.000 89	1.9 312	20.3 Side By Side, Inc.	23.7	27.5
208B1 Archbold	WBCY	LIC DCX OH	276.5 96.0	56.7 BLED20051205AAM	41 28 59.0 84 16 58.0	20.000 96	2.3 317	24.1 Taylor University Broadcas	32.3	30.4
203A Republic	NEW	CP CX OH	114.2 294.6	61.7 BNPED20071018APM	41 11 54.8 82 56 11.3	1.000 103	1.7 345	20.5 Side By Side, Inc.	44.9	39.5
12/19/2008: Accepted on channel 203A by Industry Canada in 12/2/2008 letter as a specially negotiated, s hort-spaced allotment. Note: not limited.										
206A Lorain	WNZN	LIC CN OH	97.3 278.1	98.5 BLED19920319KA	41 18 34.0 82 26 31.0	2.200 114	39.8 344	26.3 Spanish Cultural Communica	39.5	44.1

Terrain database is NED 03 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM  
 Contour distances are on direct line to and from reference station. Reference zone= - Zone 1, Co to 3rd adjacent.  
 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 protected contour.  
 < = Station meets FCC minimum distance spacing for its class.  
 < = Contour Overlap

Blue Highlighted Text denotes the WTPG(FM) facility to be modified by this Form 340 filing.  
 This facility need not be protected.

Red Highlighted Text denotes Canadian facility, CIMX-FM - Windsor, ON, CH204C1. Contour overlap with CIMX-FM will exist, however full protection will be afforded this Canadian concern over Canadian soil as noted in **Exhibit 23.1**.

Yellow Highlighted Text denotes §73.509 contour protection studies toward relevant stations as included in **Exhibit(s)18.1 to 18.6**. Additional contour protection studies will be supplied upon request.

## Exhibit 18.2

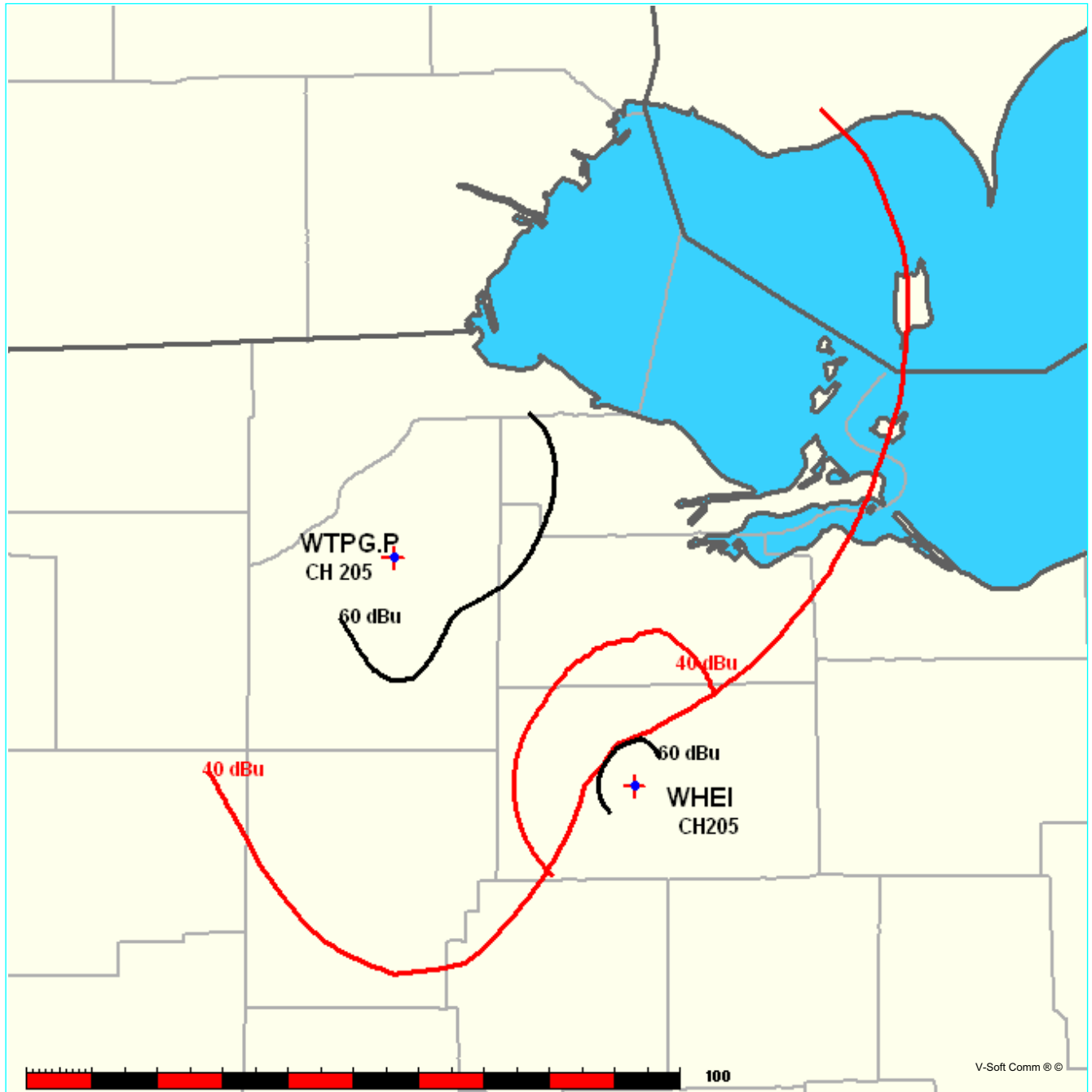
### Contour Protection Toward WHEI(FM) - Tiffin, OH (CH205A)

Penfold Communications, Inc.

FMCommander Single Allocation Study - 06-02-2011 - NED 03 SEC  
WTPG.P's Overlaps (In= 18.84 km, Out= 0.19 km)

WTPG.P CH 205 B1 DA  
Lat= 41 25 39.0, Lng= 83 36 30.0  
11.0 kW 80.9 M HAAT, 282 M COR  
Prot.= 60 dBu, Intef.= 40 dBu

WHEI CH 205 A BLED19960621KA  
Lat= 41 06 59.0, Lng= 83 10 03.0  
0.1 kW 18 M HAAT, 256 M COR  
Prot.= 60 dBu, Intef.= 40 dBu



**Munn-Reese, Inc.**

Broadcast Engineering Consultants  
Coldwater, MI 49036

## Exhibit 18.2

### Contour Protection Toward WHEI(FM) - Tiffin, OH (CH205A)

06-02-2011

Terrain Data: NED 03 SEC

FMOver Analysis

WTPG.P

WHEI BLED19960621KA

Channel = 205B1  
Max ERP = 11 kW  
RCAMSL = 282 M  
N. Lat. 41 25 39.0  
W. Lng. 83 36 30.0  
Protected  
60 dBu

Channel = 205A  
Max ERP = 0.1 kW  
RCAMSL = 256 M  
N. Lat. 41 06 59.0  
W. Lng. 83 10 03.0  
Interfering  
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
090.0	002.2374	0082.0	020.5	334.7	000.1000	0036.7	038.3	30.47	
091.0	002.1461	0082.1	020.3	334.2	000.1000	0036.6	038.0	30.53	
092.0	002.0567	0082.5	020.2	333.8	000.1000	0036.5	037.8	30.61	
093.0	001.9691	0082.3	019.9	333.2	000.1000	0036.5	037.6	30.66	
094.0	001.8835	0082.1	019.7	332.6	000.1000	0036.3	037.4	30.69	
095.0	001.7998	0081.8	019.4	332.0	000.1000	0036.1	037.3	30.70	
096.0	001.7180	0082.1	019.2	331.4	000.1000	0035.9	037.1	30.72	
097.0	001.6381	0082.2	019.0	330.9	000.1000	0035.7	037.0	30.74	
098.0	001.5601	0082.2	018.8	330.3	000.1000	0035.6	036.9	30.76	
099.0	001.4840	0082.0	018.5	329.6	000.1000	0035.4	036.8	30.74	
100.0	001.4098	0081.8	018.2	329.0	000.1000	0035.1	036.7	30.72	
101.0	001.3529	0081.7	018.0	328.4	000.1000	0034.8	036.6	30.69	
102.0	001.2972	0081.9	017.8	327.9	000.1000	0034.6	036.5	30.68	
103.0	001.2426	0081.7	017.6	327.3	000.1000	0034.3	036.4	30.64	
104.0	001.1892	0081.7	017.4	326.7	000.1000	0034.2	036.4	30.63	
105.0	001.1370	0081.5	017.2	326.1	000.1000	0034.0	036.4	30.60	
106.0	001.0859	0081.4	016.9	325.5	000.1000	0033.9	036.3	30.58	
107.0	001.0361	0081.0	016.7	324.9	000.1000	0033.8	036.4	30.55	
108.0	000.9874	0080.6	016.4	324.3	000.1000	0033.7	036.4	30.51	
109.0	000.9398	0080.3	016.1	323.7	000.1000	0033.6	036.5	30.48	
110.0	000.8935	0080.2	015.9	323.1	000.1000	0033.4	036.5	30.42	
111.0	000.8569	0080.1	015.7	322.6	000.1000	0033.3	036.5	30.39	
112.0	000.8210	0079.8	015.5	322.0	000.1000	0033.1	036.6	30.34	
113.0	000.7859	0079.5	015.3	321.5	000.1000	0033.0	036.6	30.30	
114.0	000.7516	0079.2	015.1	321.0	000.1000	0032.8	036.7	30.23	
115.0	000.7181	0079.1	014.9	320.5	000.1000	0032.6	036.7	30.18	
116.0	000.6853	0079.0	014.7	320.0	000.1000	0032.5	036.8	30.13	
117.0	000.6533	0079.0	014.5	319.5	000.1000	0032.3	036.9	30.06	
118.0	000.6220	0079.0	014.3	319.1	000.1000	0032.0	036.9	29.98	
119.0	000.5916	0079.0	014.1	318.6	000.1000	0032.0	037.0	29.94	
120.0	000.5618	0079.1	014.0	318.2	000.1000	0032.0	037.1	29.91	
121.0	000.5431	0079.2	013.9	317.8	000.1000	0032.0	037.1	29.90	
122.0	000.5247	0079.2	013.7	317.4	000.1000	0031.9	037.2	29.87	
123.0	000.5067	0079.2	013.6	317.0	000.1000	0031.8	037.2	29.83	

**Munn-Reese, Inc.**

Broadcast Engineering Consultants  
Coldwater, MI 49036

## Exhibit 18.2

### Contour Protection Toward WHEI(FM) - Tiffin, OH (CH205A)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
124.0	000.4889	0079.2	013.5	316.6	000.1000	0031.7	037.3	29.79
125.0	000.4715	0078.8	013.4	316.2	000.1000	0031.6	037.4	29.74
126.0	000.4544	0078.7	013.2	315.8	000.1000	0031.3	037.5	29.65
127.0	000.4376	0078.5	013.1	315.4	000.1000	0031.2	037.6	29.58
128.0	000.4211	0078.5	013.0	315.0	000.1000	0031.1	037.6	29.54
129.0	000.4049	0078.6	012.9	314.7	000.1000	0031.0	037.7	29.49
130.0	000.3890	0078.8	012.8	314.3	000.1000	0030.9	037.8	29.44
131.0	000.3928	0079.0	012.8	314.0	000.1000	0030.9	037.8	29.45
132.0	000.3965	0078.9	012.8	313.7	000.1000	0030.9	037.7	29.46
133.0	000.4002	0079.0	012.9	313.3	000.1000	0030.8	037.7	29.46
134.0	000.4040	0079.0	012.9	313.0	000.1000	0030.7	037.7	29.45
135.0	000.4078	0078.9	012.9	312.6	000.1000	0030.7	037.7	29.46
136.0	000.4115	0078.8	012.9	312.3	000.1000	0030.6	037.6	29.44
137.0	000.4154	0078.8	013.0	311.9	000.1000	0030.6	037.6	29.42
138.0	000.4192	0078.8	013.0	311.6	000.1000	0030.5	037.6	29.42
139.0	000.4230	0078.8	013.0	311.2	000.1000	0030.5	037.6	29.41
140.0	000.4269	0078.7	013.0	310.9	000.1000	0030.4	037.6	29.39
141.0	000.4493	0078.6	013.2	310.5	000.1000	0030.3	037.5	29.40
142.0	000.4723	0078.6	013.4	310.1	000.1000	0030.1	037.4	29.40
143.0	000.4958	0078.5	013.5	309.7	000.1000	0029.9	037.3	29.41
144.0	000.5199	0078.5	013.7	309.3	000.1000	0029.8	037.2	29.44
145.0	000.5446	0078.3	013.8	308.9	000.1000	0029.7	037.2	29.47
146.0	000.5698	0078.3	013.9	308.5	000.1000	0029.5	037.1	29.49
147.0	000.5956	0078.1	014.1	308.0	000.1000	0029.5	037.0	29.51
148.0	000.6220	0078.1	014.2	307.6	000.1000	0029.3	037.0	29.53
149.0	000.6490	0078.1	014.4	307.2	000.1000	0029.3	036.9	29.55
150.0	000.6765	0078.0	014.5	306.7	000.1000	0029.3	036.9	29.56
151.0	000.7119	0077.8	014.7	306.2	000.1000	0029.3	036.8	29.58
152.0	000.7482	0077.7	014.9	305.8	000.1000	0029.3	036.8	29.60
153.0	000.7854	0077.6	015.1	305.3	000.1000	0029.2	036.8	29.61
154.0	000.8234	0077.5	015.2	304.8	000.1000	0029.2	036.7	29.62
155.0	000.8624	0077.4	015.4	304.3	000.1000	0029.1	036.7	29.63
156.0	000.9023	0077.3	015.6	303.8	000.1000	0029.0	036.7	29.63
157.0	000.9431	0077.4	015.8	303.2	000.1000	0028.8	036.7	29.64
158.0	000.9847	0077.4	016.0	302.7	000.1000	0028.7	036.7	29.64
159.0	001.0273	0077.4	016.2	302.2	000.1000	0028.5	036.7	29.63
160.0	001.0708	0077.3	016.4	301.6	000.1000	0028.3	036.7	29.62
161.0	001.1271	0077.1	016.6	301.1	000.1000	0028.2	036.7	29.62
162.0	001.1849	0077.0	016.8	300.5	000.1000	0028.0	036.7	29.61
163.0	001.2441	0076.9	017.0	299.9	000.1000	0027.8	036.8	29.60
164.0	001.3047	0076.9	017.3	299.4	000.1000	0027.6	036.8	29.58
165.0	001.3668	0077.0	017.5	298.8	000.1000	0027.5	036.9	29.56
166.0	001.4304	0077.1	017.7	298.2	000.1000	0027.4	036.9	29.54
167.0	001.4953	0077.1	017.9	297.6	000.1000	0027.3	037.0	29.51
168.0	001.5618	0077.1	018.1	297.1	000.1000	0027.2	037.2	29.47
169.0	001.6296	0077.0	018.3	296.5	000.1000	0027.1	037.3	29.43
170.0	001.6989	0076.9	018.5	296.0	000.1000	0027.0	037.4	29.37

**Munn-Reese, Inc.**

Broadcast Engineering Consultants  
Coldwater, MI 49036

## Exhibit 18.2

### Contour Protection Toward WHEI(FM) - Tiffin, OH (CH205A)

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06-02-2011

Terrain Data: NED 03 SEC

FMOVer Analysis

WHEI BLED19960621KA

WTPG.P

Channel = 205A

Max ERP = 0.1 kW

RCAMSL = 256 M

N. Lat. 41 06 59.0

W. Lng. 83 10 03.0

Protected

60 dBu

Channel = 205B1

Max ERP = 11 kW

RCAMSL = 282 M

N. Lat. 41 25 39.0

W. Lng. 83 36 30.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
270.0	000.1000	0019.4	005.6	137.8	000.4185	0078.8	046.6	39.46	
271.0	000.1000	0019.5	005.6	137.7	000.4182	0078.8	046.5	39.49	
272.0	000.1000	0019.5	005.6	137.6	000.4178	0078.8	046.4	39.51	
273.0	000.1000	0019.6	005.6	137.6	000.4175	0078.8	046.4	39.53	
274.0	000.1000	0019.8	005.6	137.5	000.4172	0078.8	046.3	39.55	
275.0	000.1000	0020.0	005.6	137.4	000.4168	0078.8	046.2	39.57	
276.0	000.1000	0020.6	005.6	137.3	000.4165	0078.8	046.2	39.59	
277.0	000.1000	0020.9	005.6	137.2	000.4161	0078.8	046.1	39.61	
278.0	000.1000	0021.6	005.6	137.1	000.4158	0078.8	046.0	39.63	
279.0	000.1000	0022.6	005.6	137.0	000.4154	0078.8	046.0	39.65	
280.0	000.1000	0022.3	005.6	136.9	000.4150	0078.8	045.9	39.67	
281.0	000.1000	0022.3	005.6	136.8	000.4147	0078.8	045.9	39.68	
282.0	000.1000	0022.7	005.6	136.7	000.4143	0078.8	045.8	39.70	
283.0	000.1000	0023.3	005.6	136.6	000.4139	0078.8	045.8	39.72	
284.0	000.1000	0023.7	005.6	136.5	000.4135	0078.8	045.7	39.73	
285.0	000.1000	0024.1	005.6	136.4	000.4131	0078.8	045.6	39.75	
286.0	000.1000	0024.4	005.6	136.3	000.4127	0078.8	045.6	39.76	
287.0	000.1000	0024.7	005.6	136.2	000.4123	0078.8	045.5	39.78	
288.0	000.1000	0025.0	005.6	136.1	000.4119	0078.8	045.5	39.79	
289.0	000.1000	0025.2	005.6	136.0	000.4115	0078.8	045.5	39.80	
290.0	000.1000	0025.4	005.6	135.9	000.4110	0078.8	045.4	39.81	
291.0	000.1000	0025.6	005.6	135.8	000.4106	0078.8	045.4	39.82	
292.0	000.1000	0025.8	005.6	135.6	000.4102	0078.8	045.3	39.84	
293.0	000.1000	0026.1	005.6	135.5	000.4097	0078.8	045.3	39.85	
294.0	000.1000	0026.3	005.6	135.4	000.4093	0078.8	045.2	39.86	
295.0	000.1000	0026.7	005.6	135.3	000.4089	0078.8	045.2	39.87	
296.0	000.1000	0027.0	005.6	135.2	000.4084	0078.9	045.2	39.87	
297.0	000.1000	0027.2	005.6	135.1	000.4080	0078.9	045.1	39.88	
298.0	000.1000	0027.4	005.6	134.9	000.4075	0078.9	045.1	39.89	
299.0	000.1000	0027.5	005.6	134.8	000.4071	0078.9	045.1	39.89	
300.0	000.1000	0027.8	005.6	134.7	000.4066	0078.9	045.1	39.90	

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## Exhibit 18.2

### Contour Protection Toward WHEI(FM) - Tiffin, OH (CH205A)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
301.0	000.1000	0028.1	005.6	134.6	000.4062	0078.9	045.0	39.91
302.0	000.1000	0028.4	005.6	134.5	000.4057	0078.9	045.0	39.91
303.0	000.1000	0028.7	005.6	134.3	000.4052	0078.9	045.0	39.91
304.0	000.1000	0029.1	005.6	134.2	000.4048	0078.9	045.0	39.92
305.0	000.1000	0029.2	005.6	134.1	000.4043	0079.0	045.0	39.92
306.0	000.1000	0029.3	005.6	134.0	000.4038	0079.0	044.9	39.93
307.0	000.1000	0029.3	005.6	133.8	000.4034	0079.0	044.9	39.93
308.0	000.1000	0029.5	005.6	133.7	000.4029	0079.0	044.9	39.93
309.0	000.1000	0029.7	005.6	133.6	000.4024	0079.0	044.9	39.93
310.0	000.1000	0030.1	005.6	133.5	000.4020	0079.0	044.9	39.93
311.0	000.1000	0030.4	005.7	133.3	000.4015	0079.0	044.9	39.93
312.0	000.1000	0030.6	005.7	133.2	000.4010	0079.0	044.8	39.93
313.0	000.1000	0030.7	005.7	133.1	000.4006	0079.0	044.8	39.93
314.0	000.1000	0030.9	005.7	133.0	000.4001	0079.0	044.8	39.93
315.0	000.1000	0031.1	005.7	132.8	000.3996	0079.0	044.8	39.93
316.0	000.1000	0031.5	005.8	132.7	000.3991	0079.0	044.8	39.94
317.0	000.1000	0031.8	005.8	132.6	000.3986	0079.0	044.8	39.94
318.0	000.1000	0032.0	005.8	132.4	000.3981	0079.0	044.8	39.93
319.0	000.1000	0032.0	005.8	132.3	000.3976	0079.0	044.8	39.92
320.0	000.1000	0032.5	005.8	132.2	000.3971	0079.0	044.7	39.93
321.0	000.1000	0032.8	005.9	132.0	000.3966	0078.9	044.7	39.92
322.0	000.1000	0033.1	005.9	131.9	000.3961	0078.9	044.7	39.92
323.0	000.1000	0033.4	005.9	131.8	000.3956	0078.9	044.7	39.92
324.0	000.1000	0033.7	005.9	131.6	000.3951	0078.9	044.7	39.91
325.0	000.1000	0033.8	005.9	131.5	000.3946	0078.9	044.7	39.90
326.0	000.1000	0034.0	006.0	131.4	000.3941	0079.0	044.7	39.89
327.0	000.1000	0034.2	006.0	131.2	000.3936	0079.0	044.7	39.88
328.0	000.1000	0034.7	006.0	131.1	000.3931	0079.0	044.7	39.88
329.0	000.1000	0035.1	006.1	131.0	000.3926	0079.0	044.7	39.88
330.0	000.1000	0035.5	006.1	130.8	000.3920	0079.0	044.7	39.87
331.0	000.1000	0035.7	006.1	130.7	000.3915	0079.0	044.8	39.86
332.0	000.1000	0036.1	006.1	130.5	000.3910	0079.0	044.8	39.85
333.0	000.1000	0036.4	006.2	130.4	000.3905	0078.9	044.8	39.84
334.0	000.1000	0036.5	006.2	130.3	000.3900	0078.9	044.8	39.82
335.0	000.1000	0036.7	006.2	130.1	000.3895	0078.9	044.8	39.79
336.0	000.1000	0036.5	006.2	130.0	000.3891	0078.8	044.9	39.76
337.0	000.1000	0036.4	006.2	129.9	000.3907	0078.8	045.0	39.76
338.0	000.1000	0037.1	006.2	129.7	000.3932	0078.8	045.0	39.78
339.0	000.1000	0037.3	006.2	129.6	000.3952	0078.7	045.0	39.79
340.0	000.1000	0037.5	006.2	129.5	000.3973	0078.7	045.0	39.79
341.0	000.1000	0037.7	006.3	129.3	000.3994	0078.6	045.1	39.79
342.0	000.1000	0039.3	006.4	129.1	000.4027	0078.6	045.0	39.85
343.0	000.1000	0039.8	006.4	129.0	000.4050	0078.6	045.1	39.86
344.0	000.1000	0040.1	006.5	128.9	000.4071	0078.6	045.1	39.87
345.0	000.1000	0039.2	006.4	128.8	000.4081	0078.6	045.2	39.83

**Munn-Reese, Inc.**

Broadcast Engineering Consultants

Coldwater, MI 49036

## Exhibit 18.3

### Contour Protection Toward WXUT(FM) - Toledo, OH (CH202A)

Penfold Communications, Inc.

FMCommander Single Allocation Study - 06-02-2011 - NED 03 SEC

WTPG.P's Overlaps (In= 0.32 km, Out= 15.34 km)

WTPG.P CH 205 B1 DA

Lat= 41 25 39.0, Lng= 83 36 30.0

11.0 kW 80.9 M HAAT, 282 M COR

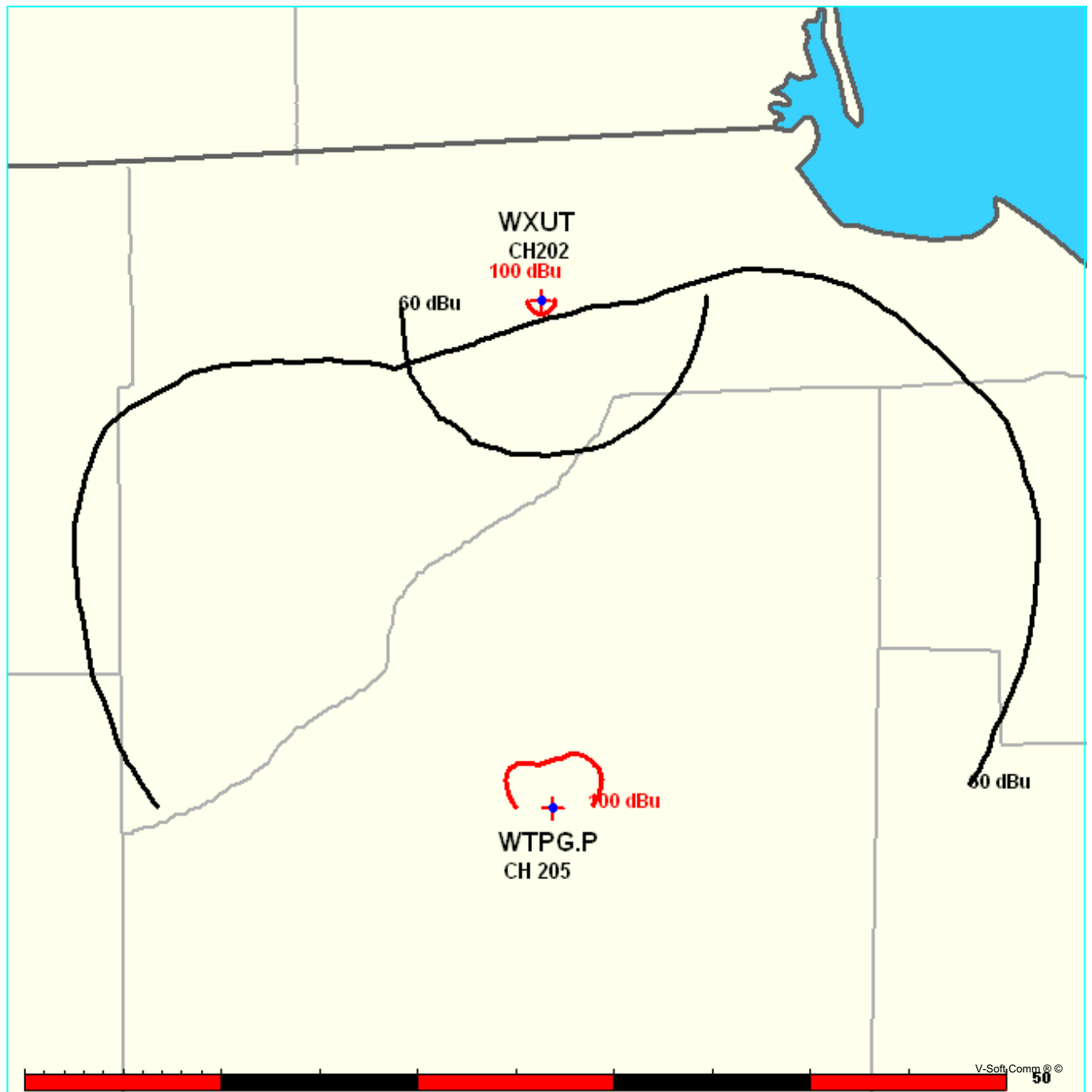
Prot.= 60 dBu, Intef.= 100 dBu

WXUT CH 202 A BLED19901120KF

Lat= 41 39 26.0, Lng= 83 36 57.0

0.1 kW 58 M HAAT, 248 M COR

Prot.= 60 dBu, Intef.= 100 dBu



**Munn-Reese, Inc.**

Broadcast Engineering Consultants

Coldwater, MI 49036

## Exhibit 18.3

### Contour Protection Toward WXUT(FM) - Toledo, OH (CH202A)

06-02-2011

Terrain Data: NED 03 SEC

FMOver Analysis

WTPG.P

WXUT BLED19901120KF

Channel = 205B1

Max ERP = 11 kW

RCAMSL = 282 M

N. Lat. 41 25 39.0

W. Lng. 83 36 30.0

Protected

60 dBu

Channel = 202A

Max ERP = 0.1 kW

RCAMSL = 248 M

N. Lat. 41 39 26.0

W. Lng. 83 36 57.0

Interfering

100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
315.0	009.9275	0083.8	029.2	256.3	000.1000	0049.7	020.5	42.85	
316.0	009.7196	0083.8	029.0	256.7	000.1000	0049.5	020.0	43.23	
317.0	009.5139	0083.8	028.9	257.0	000.1000	0049.3	019.5	43.61	
318.0	009.3104	0084.0	028.8	257.5	000.1000	0049.1	019.0	43.99	
319.0	009.1091	0084.2	028.7	258.0	000.1000	0049.0	018.5	44.37	
320.0	008.9100	0084.4	028.5	258.4	000.1000	0049.0	018.0	44.79	
321.0	008.5475	0084.8	028.3	258.5	000.1000	0049.0	017.5	45.24	
322.0	008.1925	0084.9	028.1	258.6	000.1000	0049.0	017.0	45.72	
323.0	007.8450	0084.9	027.8	258.4	000.1000	0049.0	016.4	46.20	
324.0	007.5050	0084.9	027.5	258.2	000.1000	0049.0	015.8	46.68	
325.0	007.1726	0084.9	027.3	258.0	000.1000	0049.0	015.3	47.17	
326.0	006.8477	0085.0	027.0	257.8	000.1000	0049.1	014.8	47.50	
327.0	006.5304	0085.0	026.7	257.4	000.1000	0049.2	014.2	48.17	
328.0	006.2205	0085.2	026.4	257.0	000.1000	0049.3	013.7	48.86	
329.0	005.9182	0085.2	026.2	256.4	000.1000	0049.6	013.2	49.63	
330.0	005.6235	0085.3	025.9	255.8	000.1000	0049.8	012.7	50.40	
331.0	005.4008	0085.4	025.6	255.4	000.1000	0049.9	012.2	51.14	
332.0	005.1826	0085.7	025.4	254.9	000.1000	0049.9	011.7	51.89	
333.0	004.9689	0086.1	025.3	254.6	000.1000	0050.1	011.2	52.67	
334.0	004.7597	0086.0	025.0	253.7	000.1000	0050.4	010.7	53.51	
335.0	004.5550	0085.8	024.7	252.5	000.1000	0050.8	010.3	54.38	
336.0	004.3548	0086.1	024.5	251.6	000.1000	0050.9	009.8	55.19	
337.0	004.1591	0086.4	024.3	250.5	000.1000	0051.4	009.4	56.06	
338.0	003.9679	0086.4	024.1	249.1	000.1000	0051.8	009.0	56.92	
339.0	003.7812	0086.3	023.8	247.2	000.1000	0052.5	008.5	57.80	
340.0	003.5990	0086.3	023.5	245.2	000.1000	0053.5	008.1	58.71	
341.0	003.5990	0086.3	023.5	245.0	000.1000	0053.7	007.7	59.53	
342.0	003.5990	0086.2	023.5	244.5	000.1000	0053.8	007.3	60.45	
343.0	003.5990	0086.3	023.5	244.2	000.1000	0053.9	006.9	61.43	
344.0	003.5990	0086.5	023.5	243.7	000.1000	0054.1	006.5	62.53	
345.0	003.5990	0086.4	023.5	243.0	000.1000	0054.2	006.1	63.70	
346.0	003.5990	0086.6	023.6	242.2	000.1000	0054.7	005.7	65.05	
347.0	003.5990	0086.4	023.5	241.0	000.1000	0055.4	005.3	66.48	
348.0	003.5990	0086.4	023.5	239.6	000.1000	0055.0	004.9	67.76	
349.0	003.5990	0087.1	023.6	239.0	000.1000	0055.0	004.5	69.26	

**Munn-Reese, Inc.**

Broadcast Engineering Consultants

Coldwater, MI 49036



## Exhibit 18.3

### Contour Protection Toward WXUT(FM) - Toledo, OH (CH202A)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
350.0	003.5990	0087.5	023.7	237.7	000.1000	0055.0	004.1	70.88
351.0	003.6813	0087.4	023.8	236.9	000.1000	0055.1	003.7	72.79
352.0	003.7645	0086.9	023.8	234.7	000.1000	0055.3	003.3	74.76
353.0	003.8486	0086.6	023.9	232.2	000.1000	0056.3	002.9	77.18
354.0	003.9336	0086.3	024.0	228.7	000.1000	0055.7	002.5	79.84
355.0	004.0196	0086.4	024.1	225.0	000.1000	0056.8	002.1	83.37
356.0	004.1065	0086.6	024.3	219.3	000.1000	0057.0	001.7	86.97
357.0	004.1944	0086.4	024.4	208.6	000.1000	0057.2	001.4	94.29
358.0	004.2831	0086.3	024.5	192.1	000.1000	0058.5	001.1	96.20
359.0	004.3728	0086.1	024.6	168.4	000.1000	0057.8	001.0	97.12
000.0	004.4635	0085.8	024.6	144.9	000.1000	0059.7	001.1	96.21
001.0	004.5734	0085.5	024.7	127.1	000.1000	0061.7	001.3	94.49
002.0	004.6848	0085.5	024.9	114.2	000.1000	0062.9	001.6	87.93
003.0	004.7974	0085.7	025.0	105.4	000.1000	0063.3	002.0	84.70
004.0	004.9114	0085.8	025.2	099.7	000.1000	0064.4	002.4	81.50
005.0	005.0267	0085.7	025.3	096.6	000.1000	0064.9	002.8	78.52
006.0	005.1434	0085.5	025.4	094.7	000.1000	0065.3	003.3	76.08
007.0	005.2614	0085.4	025.5	093.2	000.1000	0065.8	003.7	74.01
008.0	005.3808	0085.3	025.6	092.1	000.1000	0066.0	004.2	72.08
009.0	005.5015	0085.2	025.7	091.2	000.1000	0066.1	004.6	70.31
010.0	005.6235	0085.2	025.9	090.5	000.1000	0066.1	005.1	68.70
011.0	005.9182	0085.2	026.1	088.4	000.1000	0066.2	005.6	67.04
012.0	006.2205	0085.1	026.4	086.8	000.1000	0066.2	006.1	65.42
013.0	006.5304	0085.1	026.7	085.5	000.1000	0066.6	006.6	64.00
014.0	006.8477	0085.0	027.0	084.6	000.1000	0066.7	007.2	62.65
015.0	007.1726	0084.9	027.3	083.8	000.1000	0067.0	007.7	61.44
016.0	007.5050	0085.3	027.6	083.0	000.1000	0067.1	008.3	60.35
017.0	007.8450	0085.8	027.9	082.1	000.1000	0067.4	008.9	59.30
018.0	008.1925	0086.0	028.3	081.6	000.1000	0067.5	009.4	58.26
019.0	008.5475	0086.1	028.5	081.5	000.1000	0067.6	010.0	57.26
020.0	008.9100	0086.2	028.8	081.4	000.1000	0067.6	010.6	56.28
021.0	009.1091	0086.3	029.0	081.9	000.1000	0067.5	011.1	55.39
022.0	009.3104	0086.5	029.2	082.4	000.1000	0067.4	011.6	54.54
023.0	009.5139	0086.4	029.3	083.0	000.1000	0067.1	012.1	53.71
024.0	009.7196	0086.6	029.5	083.6	000.1000	0067.1	012.7	52.92
025.0	009.9275	0086.6	029.6	084.1	000.1000	0066.9	013.2	52.16
026.0	010.1376	0086.7	029.8	084.7	000.1000	0066.7	013.7	51.43
027.0	010.3499	0086.7	029.9	085.3	000.1000	0066.6	014.2	50.76
028.0	010.5644	0086.8	030.1	085.9	000.1000	0066.4	014.7	50.10
029.0	010.7811	0086.6	030.2	086.6	000.1000	0066.2	015.2	49.79
030.0	011.0000	0086.3	030.3	087.4	000.1000	0066.2	015.7	49.35
031.0	011.0000	0086.2	030.2	088.5	000.1000	0066.3	016.2	48.98
032.0	011.0000	0086.2	030.3	089.4	000.1000	0066.1	016.6	48.58
033.0	011.0000	0086.3	030.3	090.4	000.1000	0066.1	017.1	48.19
034.0	011.0000	0086.2	030.2	091.4	000.1000	0066.1	017.5	47.81
035.0	011.0000	0086.2	030.3	092.3	000.1000	0066.0	017.9	47.42

## Exhibit 18.3

### Contour Protection Toward WXUT(FM) - Toledo, OH (CH202A)

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06-02-2011

Terrain Data: NED 03 SEC

FMOver Analysis

WXUT BLED19901120KF

WTPG.P

Channel = 202A

Max ERP = 0.1 kW

RCAMSL = 248 M

N. Lat. 41 39 26.0

W. Lng. 83 36 57.0

Protected

60 dBu

Channel = 205B1

Max ERP = 11 kW

RCAMSL = 282 M

N. Lat. 41 25 39.0

W. Lng. 83 36 30.0

Interfering

100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
135.0	000.1000	0061.5	008.1	014.3	006.9594	0085.0	020.5	65.93	
136.0	000.1000	0061.2	008.1	014.1	006.8751	0085.0	020.3	65.96	
137.0	000.1000	0061.1	008.1	013.9	006.8044	0084.9	020.2	66.01	
138.0	000.1000	0061.1	008.1	013.6	006.7338	0084.9	020.1	66.06	
139.0	000.1000	0061.0	008.0	013.4	006.6551	0085.0	020.0	66.10	
140.0	000.1000	0060.8	008.0	013.1	006.5722	0085.0	019.9	66.14	
141.0	000.1000	0060.7	008.0	012.9	006.4910	0085.0	019.8	66.17	
142.0	000.1000	0060.9	008.0	012.6	006.4187	0085.0	019.7	66.22	
143.0	000.1000	0060.6	008.0	012.3	006.3251	0085.0	019.6	66.23	
144.0	000.1000	0060.1	008.0	012.0	006.2181	0085.1	019.5	66.23	
145.0	000.1000	0059.7	008.0	011.7	006.1188	0085.1	019.4	66.23	
146.0	000.1000	0059.6	008.0	011.4	006.0298	0085.1	019.3	66.25	
147.0	000.1000	0059.6	008.0	011.1	005.9428	0085.1	019.2	66.27	
148.0	000.1000	0059.7	008.0	010.8	005.8570	0085.2	019.1	66.30	
149.0	000.1000	0059.5	008.0	010.5	005.7573	0085.2	019.0	66.29	
150.0	000.1000	0059.5	008.0	010.1	005.6661	0085.2	018.9	66.30	
151.0	000.1000	0059.6	008.0	009.8	005.6020	0085.3	018.9	66.33	
152.0	000.1000	0059.9	008.0	009.5	005.5660	0085.2	018.8	66.38	
153.0	000.1000	0060.1	008.0	009.2	005.5277	0085.2	018.7	66.42	
154.0	000.1000	0060.0	008.0	008.9	005.4845	0085.3	018.6	66.46	
155.0	000.1000	0060.2	008.0	008.5	005.4436	0085.3	018.5	66.51	
156.0	000.1000	0060.1	008.0	008.1	005.3986	0085.3	018.4	66.52	
157.0	000.1000	0060.0	008.0	007.8	005.3536	0085.3	018.4	66.54	
158.0	000.1000	0059.9	008.0	007.4	005.3075	0085.3	018.3	66.56	
159.0	000.1000	0059.9	008.0	007.0	005.2623	0085.4	018.2	66.59	
160.0	000.1000	0059.5	008.0	006.6	005.2122	0085.4	018.2	66.59	
161.0	000.1000	0059.4	007.9	006.2	005.1648	0085.4	018.1	66.59	
162.0	000.1000	0059.0	007.9	005.7	005.1137	0085.6	018.1	66.59	
163.0	000.1000	0058.7	007.9	005.3	005.0641	0085.7	018.1	66.60	
164.0	000.1000	0058.2	007.9	004.9	005.0126	0085.7	018.0	66.56	
165.0	000.1000	0058.1	007.9	004.5	004.9644	0085.7	018.0	66.56	
166.0	000.1000	0058.0	007.9	004.0	004.9169	0085.8	018.0	66.56	

**Munn-Reese, Inc.**

Broadcast Engineering Consultants

Coldwater, MI 49036

## Exhibit 18.3

### Contour Protection Toward WXUT(FM) - Toledo, OH (CH202A)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
167.0	000.1000	0057.8	007.8	003.6	004.8675	0086.0	017.9	66.56
168.0	000.1000	0057.8	007.8	003.2	004.8200	0085.8	017.9	66.52
169.0	000.1000	0057.6	007.8	002.8	004.7705	0085.6	017.9	66.48
170.0	000.1000	0057.3	007.8	002.3	004.7214	0085.6	017.9	66.44
171.0	000.1000	0057.3	007.8	001.9	004.6733	0085.5	017.8	66.41
172.0	000.1000	0057.4	007.8	001.5	004.6260	0085.5	017.8	66.39
173.0	000.1000	0057.5	007.8	001.0	004.5784	0085.5	017.8	66.36
174.0	000.1000	0057.4	007.8	000.6	004.5301	0085.5	017.8	66.33
175.0	000.1000	0057.1	007.8	000.2	004.4816	0085.6	017.8	66.29
176.0	000.1000	0057.4	007.8	359.7	004.4394	0085.9	017.7	66.31
177.0	000.1000	0057.7	007.8	359.3	004.3999	0086.1	017.7	66.31
178.0	000.1000	0057.8	007.8	358.9	004.3603	0086.1	017.7	66.29
179.0	000.1000	0057.8	007.8	358.4	004.3208	0086.2	017.7	66.25
180.0	000.1000	0057.6	007.8	358.0	004.2815	0086.3	017.7	66.21
181.0	000.1000	0057.4	007.8	357.5	004.2426	0086.3	017.7	66.16
182.0	000.1000	0056.9	007.8	357.1	004.2047	0086.3	017.8	66.08
183.0	000.1000	0057.0	007.8	356.7	004.1664	0086.5	017.8	66.05
184.0	000.1000	0057.4	007.8	356.2	004.1274	0086.6	017.8	66.03
185.0	000.1000	0057.5	007.8	355.8	004.0893	0086.6	017.8	65.98
186.0	000.1000	0057.6	007.8	355.4	004.0515	0086.5	017.8	65.91
187.0	000.1000	0057.6	007.8	354.9	004.0142	0086.4	017.8	65.84
188.0	000.1000	0058.3	007.9	354.5	003.9744	0086.2	017.8	65.79
189.0	000.1000	0058.5	007.9	354.0	003.9368	0086.3	017.8	65.74
190.0	000.1000	0058.6	007.9	353.6	003.9002	0086.5	017.9	65.70
191.0	000.1000	0058.5	007.9	353.2	003.8652	0086.6	017.9	65.63
192.0	000.1000	0058.5	007.9	352.8	003.8303	0086.7	018.0	65.56
193.0	000.1000	0058.4	007.9	352.4	003.7962	0086.8	018.0	65.50
194.0	000.1000	0057.4	007.8	352.1	003.7694	0086.9	018.1	65.38
195.0	000.1000	0057.2	007.8	351.7	003.7376	0087.0	018.2	65.30
196.0	000.1000	0057.4	007.8	351.3	003.7035	0087.3	018.2	65.26
197.0	000.1000	0057.6	007.8	350.9	003.6707	0087.5	018.3	65.19
198.0	000.1000	0058.1	007.9	350.4	003.6351	0087.5	018.3	65.13
199.0	000.1000	0058.1	007.9	350.1	003.6041	0087.5	018.4	65.04
200.0	000.1000	0058.3	007.9	349.7	003.5990	0087.4	018.4	64.97
201.0	000.1000	0058.3	007.9	349.3	003.5990	0087.2	018.5	64.90
202.0	000.1000	0058.5	007.9	348.9	003.5990	0087.1	018.6	64.83
203.0	000.1000	0059.4	007.9	348.5	003.5990	0086.7	018.6	64.77
204.0	000.1000	0059.2	007.9	348.2	003.5990	0086.5	018.7	64.67
205.0	000.1000	0058.6	007.9	347.9	003.5990	0086.4	018.8	64.56
206.0	000.1000	0060.0	008.0	347.4	003.5990	0086.4	018.8	64.56
207.0	000.1000	0059.7	008.0	347.1	003.5990	0086.4	018.9	64.48
208.0	000.1000	0058.4	007.9	346.9	003.5990	0086.4	019.1	64.35
209.0	000.1000	0057.0	007.8	346.8	003.5990	0086.4	019.2	64.21
210.0	000.1000	0056.8	007.8	346.6	003.5990	0086.4	019.3	64.13

**Munn-Reese, Inc.**

Broadcast Engineering Consultants  
Coldwater, MI 49036

## Exhibit 18.4

### Contour Protection Toward WYSZ(FM) - Maumee, OH (CH207A)

Penfold Communications, Inc.

FMCommander Single Allocation Study - 06-02-2011 - NED 03 SEC

WTPG.P's Overlaps (In= 0.37 km, Out= 1.54 km)

WTPG.P CH 205 B1 DA

Lat= 41 25 39.0, Lng= 83 36 30.0

11.0 kW 80.9 M HAAT, 282 M COR

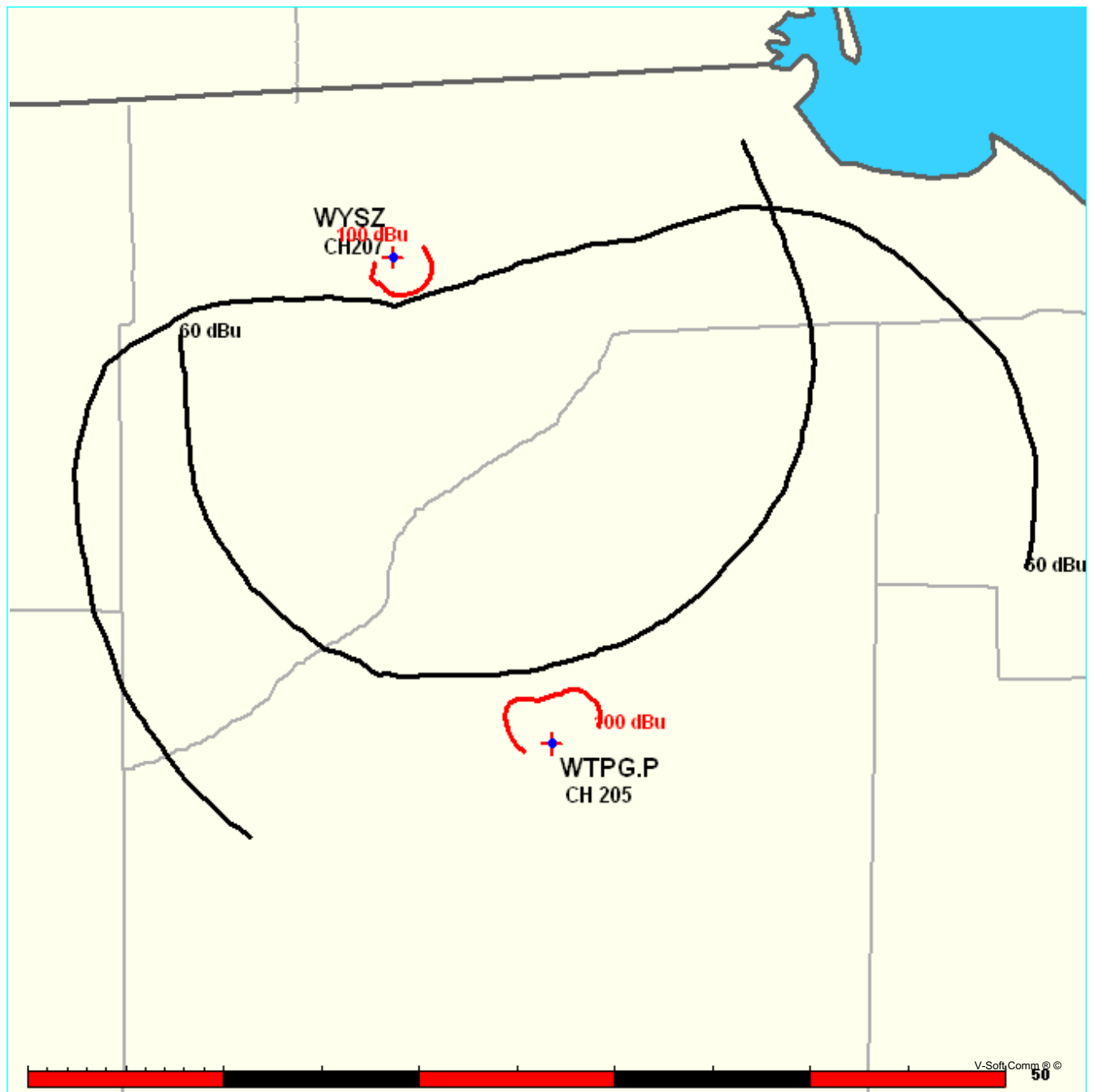
Prot.= 60 dBu, Intef.= 100 dBu

WYSZ CH 207 A DA BLED19921113KA

Lat= 41 38 55.0, Lng= 83 42 22.0

2.45 kW 93 M HAAT, 290 M COR

Prot.= 60 dBu, Intef.= 100 dBu



**Munn-Reese, Inc.**

Broadcast Engineering Consultants

Coldwater, MI 49036

## Exhibit 18.4

### Contour Protection Toward WYSZ(FM) - Maumee, OH (CH207A)

06-02-2011

Terrain Data: NED 03 SEC

FMOver Analysis

WTPG.P

WYSZ BLED19921113KA

Channel = 205B1

Max ERP = 11 kW

RCAMSL = 282 M

N. Lat. 41 25 39.0

W. Lng. 83 36 30.0

Protected

60 dBu

Channel = 207A

Max ERP = 2.45 kW

RCAMSL = 290 M

N. Lat. 41 38 55.0

W. Lng. 83 42 22.0

Interfering

100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
300.0	008.9100	0082.4	028.2	237.3	000.3149	0086.2	019.3	53.54	
301.0	009.1091	0082.4	028.4	238.3	000.3004	0086.0	018.9	53.63	
302.0	009.3104	0082.6	028.5	239.5	000.2845	0086.1	018.6	53.69	
303.0	009.5139	0082.7	028.7	240.7	000.2742	0086.4	018.2	53.87	
304.0	009.7196	0082.9	028.9	241.9	000.2669	0086.7	017.8	54.09	
305.0	009.9275	0083.4	029.1	243.3	000.2584	0086.5	017.5	54.22	
306.0	010.1376	0083.4	029.2	244.5	000.2514	0086.4	017.1	54.41	
307.0	010.3499	0083.3	029.3	245.7	000.2446	0086.2	016.7	54.61	
308.0	010.5644	0083.4	029.5	247.0	000.2370	0086.0	016.4	54.76	
309.0	010.7811	0083.4	029.6	248.3	000.2297	0086.0	016.0	54.95	
310.0	011.0000	0083.5	029.8	249.8	000.2218	0085.4	015.6	55.07	
311.0	010.7811	0083.7	029.7	250.4	000.2190	0085.3	015.1	55.44	
312.0	010.5644	0083.9	029.6	251.0	000.2164	0085.2	014.6	55.74	
313.0	010.3499	0083.9	029.5	251.5	000.2143	0085.1	014.1	56.31	
314.0	010.1376	0083.8	029.3	251.9	000.2126	0084.9	013.6	56.92	
315.0	009.9275	0083.8	029.2	252.4	000.2106	0084.7	013.0	57.56	
316.0	009.7196	0083.8	029.0	252.9	000.2086	0084.7	012.5	58.25	
317.0	009.5139	0083.8	028.9	253.4	000.2068	0084.7	012.0	58.97	
318.0	009.3104	0084.0	028.8	254.0	000.2044	0084.5	011.5	59.67	
319.0	009.1091	0084.2	028.7	254.6	000.2019	0084.2	011.0	60.39	
320.0	008.9100	0084.4	028.5	255.2	000.1996	0084.1	010.5	61.16	
321.0	008.5475	0084.8	028.3	255.3	000.1992	0084.1	010.0	62.08	
322.0	008.1925	0084.9	028.1	255.1	000.1998	0084.1	009.4	63.08	
323.0	007.8450	0084.9	027.8	254.7	000.2017	0084.2	008.9	64.16	
324.0	007.5050	0084.9	027.5	254.1	000.2040	0084.4	008.3	65.28	
325.0	007.1726	0084.9	027.3	253.4	000.2069	0084.7	007.8	66.45	
326.0	006.8477	0085.0	027.0	252.6	000.2100	0084.7	007.3	67.75	
327.0	006.5304	0085.0	026.7	251.3	000.2151	0085.2	006.7	69.28	
328.0	006.2205	0085.2	026.4	250.0	000.2204	0085.3	006.2	70.81	
329.0	005.9182	0085.2	026.2	248.0	000.2313	0086.0	005.7	72.61	
330.0	005.6235	0085.3	025.9	245.6	000.2448	0086.2	005.2	74.45	
331.0	005.4008	0085.4	025.6	243.5	000.2570	0086.5	004.8	76.22	
332.0	005.1826	0085.7	025.4	241.2	000.2713	0086.5	004.3	78.07	

**Munn-Reese, Inc.**

Broadcast Engineering Consultants

Coldwater, MI 49036

## Exhibit 18.4

### Contour Protection Toward WYSZ(FM) - Maumee, OH (CH207A)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
333.0	004.9689	0086.1	025.3	238.5	000.2986	0086.1	003.9	80.20
334.0	004.7597	0086.0	025.0	233.6	000.3674	0086.5	003.5	82.91
335.0	004.5550	0085.8	024.7	227.2	000.4860	0088.3	003.1	85.97
336.0	004.3548	0086.1	024.5	220.3	000.6598	0090.2	002.8	89.19
337.0	004.1591	0086.4	024.3	211.8	000.8157	0093.3	002.6	91.95
338.0	003.9679	0086.4	024.1	201.1	001.0884	0095.3	002.4	94.36
339.0	003.7812	0086.3	023.8	189.1	001.4978	0096.6	002.4	95.99
340.0	003.5990	0086.3	023.5	177.6	001.7632	0098.3	002.5	96.25
341.0	003.5990	0086.3	023.5	168.1	001.9006	0098.5	002.4	97.23
342.0	003.5990	0086.2	023.5	158.2	002.1218	0098.7	002.4	97.66
343.0	003.5990	0086.3	023.5	148.5	002.3108	0100.2	002.4	97.84
344.0	003.5990	0086.5	023.5	139.4	002.4500	0100.2	002.5	97.32
345.0	003.5990	0086.4	023.5	131.7	002.4500	0099.9	002.7	96.06
346.0	003.5990	0086.6	023.6	125.0	002.3935	0101.7	003.0	94.77
347.0	003.5990	0086.4	023.5	119.8	002.3325	0102.3	003.3	93.24
348.0	003.5990	0086.4	023.5	115.4	002.2220	0103.1	003.6	91.67
349.0	003.5990	0087.1	023.6	110.6	002.1027	0102.3	003.9	90.17
350.0	003.5990	0087.5	023.7	107.2	001.9833	0103.1	004.2	88.64
351.0	003.6813	0087.4	023.8	103.5	001.8529	0104.2	004.5	87.23
352.0	003.7645	0086.9	023.8	101.1	001.7695	0103.6	004.9	85.75
353.0	003.8486	0086.6	023.9	098.8	001.6771	0103.2	005.3	84.29
354.0	003.9336	0086.3	024.0	097.0	001.5922	0103.5	005.7	82.89
355.0	004.0196	0086.4	024.1	094.9	001.4948	0103.2	006.0	81.44
356.0	004.1065	0086.6	024.3	093.0	001.4137	0103.5	006.4	80.09
357.0	004.1944	0086.4	024.4	091.9	001.3645	0103.4	006.9	78.80
358.0	004.2831	0086.3	024.5	090.8	001.3174	0104.0	007.3	77.61
359.0	004.3728	0086.1	024.6	090.0	001.2833	0103.9	007.7	76.47
000.0	004.4635	0085.8	024.6	089.5	001.2699	0103.7	008.1	75.49
001.0	004.5734	0085.5	024.7	088.9	001.2540	0103.7	008.6	74.57
002.0	004.6848	0085.5	024.9	088.1	001.2328	0104.1	009.0	73.67
003.0	004.7974	0085.7	025.0	087.4	001.2128	0104.2	009.4	72.77
004.0	004.9114	0085.8	025.2	086.8	001.1964	0104.1	009.9	71.88
005.0	005.0267	0085.7	025.3	086.5	001.1883	0103.9	010.3	71.03
006.0	005.1434	0085.5	025.4	086.3	001.1841	0103.8	010.8	70.24
007.0	005.2614	0085.4	025.5	086.1	001.1794	0103.8	011.2	69.47
008.0	005.3808	0085.3	025.6	086.0	001.1761	0103.7	011.7	68.73
009.0	005.5015	0085.2	025.7	085.9	001.1731	0103.7	012.2	68.02
010.0	005.6235	0085.2	025.9	085.8	001.1708	0103.6	012.6	67.33
011.0	005.9182	0085.2	026.1	085.1	001.1522	0103.3	013.1	66.53
012.0	006.2205	0085.1	026.4	084.5	001.1370	0103.3	013.7	65.80
013.0	006.5304	0085.1	026.7	084.0	001.1232	0103.5	014.2	65.11
014.0	006.8477	0085.0	027.0	083.6	001.1132	0103.7	014.7	64.47
015.0	007.1726	0084.9	027.3	083.2	001.1041	0104.0	015.3	64.07
016.0	007.5050	0085.3	027.6	082.8	001.0927	0104.4	015.8	63.58
017.0	007.8450	0085.8	027.9	082.3	001.0812	0104.6	016.4	63.06
018.0	008.1925	0086.0	028.3	082.1	001.0745	0104.7	017.0	62.56
019.0	008.5475	0086.1	028.5	082.0	001.0721	0104.7	017.6	62.08
020.0	008.9100	0086.2	028.8	081.9	001.0702	0104.7	018.1	61.60

**Munn-Reese, Inc.**

Broadcast Engineering Consultants

Coldwater, MI 49036

## Exhibit 18.4

### Contour Protection Toward WYSZ(FM) - Maumee, OH (CH207A)

06-02-2011

Terrain Data: NED 03 SEC

FMOver Analysis

WYSZ BLED19921113KA

WTPG.P

Channel = 207A

Max ERP = 2.45 kW

RCAMSL = 290 M

N. Lat. 41 38 55.0

W. Lng. 83 42 22.0

Protected

60 dBu

Channel = 205B1

Max ERP = 11 kW

RCAMSL = 282 M

N. Lat. 41 25 39.0

W. Lng. 83 36 30.0

Interfering

100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
120.0	002.3386	0102.2	023.1	042.2	011.0000	0085.7	017.6	70.36	
121.0	002.3496	0102.6	023.2	042.7	011.0000	0085.6	017.2	70.68	
122.0	002.3607	0102.1	023.2	042.9	011.0000	0085.6	016.8	71.02	
123.0	002.3717	0101.8	023.2	043.1	011.0000	0085.6	016.4	71.35	
124.0	002.3828	0101.5	023.2	043.4	011.0000	0085.5	016.0	71.69	
125.0	002.3940	0101.7	023.2	043.7	011.0000	0085.4	015.6	72.01	
126.0	002.4051	0101.5	023.2	044.0	011.0000	0085.2	015.2	72.34	
127.0	002.4163	0101.5	023.2	044.3	011.0000	0085.2	014.8	72.56	
128.0	002.4275	0101.3	023.2	044.5	011.0000	0085.2	014.4	73.02	
129.0	002.4387	0100.6	023.2	044.5	011.0000	0085.2	014.0	73.52	
130.0	002.4500	0100.2	023.2	044.5	011.0000	0085.2	013.6	74.04	
131.0	002.4500	0100.2	023.2	044.7	011.0000	0085.2	013.2	74.58	
132.0	002.4500	0099.8	023.1	044.6	011.0000	0085.2	012.8	75.14	
133.0	002.4500	0099.9	023.1	044.7	011.0000	0085.2	012.4	75.73	
134.0	002.4500	0100.0	023.1	044.8	011.0000	0085.2	012.0	76.33	
135.0	002.4500	0100.2	023.2	044.9	011.0000	0085.3	011.6	76.96	
136.0	002.4500	0100.3	023.2	045.0	011.0000	0085.3	011.2	77.61	
137.0	002.4500	0100.4	023.2	044.9	011.0000	0085.3	010.8	78.28	
138.0	002.4500	0100.3	023.2	044.8	011.0000	0085.2	010.4	78.96	
139.0	002.4500	0100.2	023.1	044.6	011.0000	0085.2	010.0	79.65	
140.0	002.4500	0100.0	023.1	044.3	011.0000	0085.2	009.6	80.37	
141.0	002.4334	0099.9	023.1	043.7	011.0000	0085.4	009.2	81.12	
142.0	002.4168	0100.0	023.1	043.2	011.0000	0085.6	008.8	81.87	
143.0	002.4003	0100.1	023.0	042.6	011.0000	0085.7	008.4	82.63	
144.0	002.3838	0099.8	023.0	041.6	011.0000	0085.7	008.0	83.38	
145.0	002.3674	0100.0	022.9	040.8	011.0000	0085.6	007.6	84.19	
146.0	002.3511	0100.0	022.9	039.7	011.0000	0085.7	007.2	85.11	
147.0	002.3348	0100.1	022.9	038.5	011.0000	0085.9	006.9	86.09	
148.0	002.3185	0100.2	022.9	037.2	011.0000	0086.0	006.5	87.10	
149.0	002.3024	0100.1	022.8	035.5	011.0000	0086.2	006.1	88.12	

**Munn-Reese, Inc.**

Broadcast Engineering Consultants

Coldwater, MI 49036

## Exhibit 18.4

### Contour Protection Toward WYSZ(FM) - Maumee, OH (CH207A)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
150.0	002.2862	0100.1	022.8	033.5	011.0000	0086.1	005.8	89.15
151.0	002.2659	0099.5	022.7	030.6	011.0000	0086.2	005.5	90.09
152.0	002.2457	0098.9	022.5	027.3	010.4239	0086.8	005.2	90.79
153.0	002.2256	0099.2	022.5	024.6	009.8357	0086.6	004.9	91.53
154.0	002.2055	0099.1	022.5	021.0	009.1128	0086.3	004.7	92.06
155.0	002.1856	0099.0	022.4	017.0	007.8432	0085.8	004.4	92.19
156.0	002.1657	0098.8	022.4	012.5	006.3695	0085.0	004.2	91.96
157.0	002.1460	0098.8	022.3	007.6	005.3318	0085.3	004.1	91.89
158.0	002.1263	0098.6	022.2	002.3	004.7137	0085.6	004.0	91.89
159.0	002.1067	0098.7	022.2	356.8	004.1748	0086.5	003.8	91.90
160.0	002.0872	0099.0	022.2	351.1	003.6879	0087.4	003.8	91.81
161.0	002.0638	0099.0	022.1	345.1	003.5990	0086.4	003.8	91.57
162.0	002.0405	0099.3	022.1	339.3	003.7233	0086.4	003.8	91.58
163.0	002.0173	0098.8	022.0	333.8	004.7942	0086.0	003.9	92.04
164.0	001.9942	0098.5	021.9	328.8	005.9759	0085.3	004.1	92.21
165.0	001.9713	0098.6	021.8	324.1	007.4825	0084.9	004.3	92.51
166.0	001.9485	0098.7	021.8	319.8	008.9546	0084.4	004.5	92.49
167.0	001.9258	0098.9	021.7	315.9	009.7415	0083.9	004.7	92.00
168.0	001.9033	0098.6	021.7	312.7	010.4034	0084.0	005.0	91.35
169.0	001.8809	0098.6	021.6	309.8	010.9573	0083.5	005.3	90.60
170.0	001.8587	0098.4	021.5	307.4	010.4320	0083.3	005.6	89.36
171.0	001.8459	0098.3	021.5	305.0	009.9253	0083.4	005.9	88.24
172.0	001.8332	0097.7	021.4	303.3	009.5808	0082.7	006.2	86.98
173.0	001.8205	0097.7	021.3	301.4	009.1910	0082.5	006.5	85.91
174.0	001.8078	0097.8	021.3	299.7	008.7984	0082.4	006.8	84.85
175.0	001.7952	0097.5	021.2	298.4	008.3247	0082.3	007.2	83.72
176.0	001.7826	0097.8	021.2	296.9	007.8038	0082.1	007.5	82.64
177.0	001.7701	0098.3	021.3	295.4	007.3055	0081.9	007.8	81.63
178.0	001.7577	0098.5	021.2	294.2	006.9272	0081.9	008.1	80.72
179.0	001.7452	0098.7	021.2	293.3	006.6214	0081.8	008.5	79.85
180.0	001.7328	0098.4	021.2	292.7	006.4448	0081.7	008.8	79.04
181.0	001.7062	0098.5	021.1	292.2	006.2884	0081.7	009.2	78.25
182.0	001.6797	0100.4	021.2	290.8	005.8500	0081.6	009.5	77.37
183.0	001.6534	0099.5	021.0	291.1	005.9444	0081.6	009.9	76.72
184.0	001.6274	0097.2	020.7	292.2	006.2754	0081.7	010.4	76.18
185.0	001.6015	0096.5	020.5	292.4	006.3589	0081.7	010.7	75.57
186.0	001.5759	0096.5	020.5	292.3	006.3105	0081.7	011.1	74.94
187.0	001.5504	0096.5	020.4	292.2	006.2881	0081.7	011.5	74.33
188.0	001.5252	0096.2	020.3	292.3	006.3165	0081.7	011.8	73.77
189.0	001.5002	0096.6	020.2	292.1	006.2556	0081.7	012.2	73.19
190.0	001.4753	0096.5	020.1	292.2	006.2735	0081.7	012.6	72.67
191.0	001.4376	0096.3	020.0	292.5	006.3799	0081.7	012.9	72.21
192.0	001.4003	0096.3	019.9	292.8	006.4621	0081.7	013.3	71.77
193.0	001.3635	0095.8	019.7	293.3	006.6276	0081.8	013.7	71.39
194.0	001.3272	0095.5	019.5	293.7	006.7582	0081.9	014.0	71.02
195.0	001.2913	0095.7	019.4	294.0	006.8336	0081.9	014.4	70.63

**Munn-Reese, Inc.**

Broadcast Engineering Consultants

Coldwater, MI 49036



## Exhibit 18.5

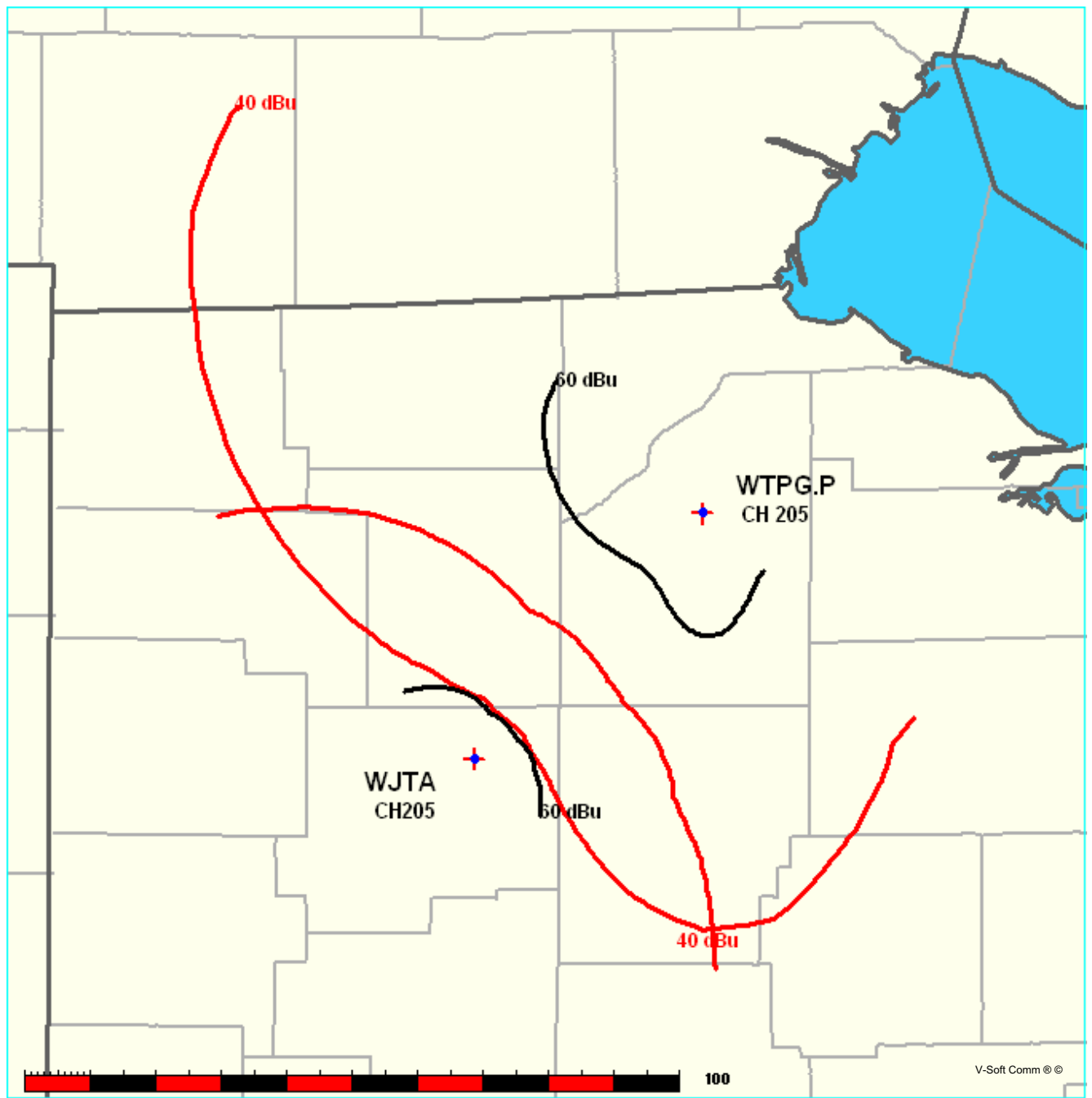
### Contour Protection Toward WJTA(FM) - Glandorf, OH (CH205A)

Penfold Communications, Inc.

FMCommander Single Allocation Study - 06-02-2011 - NED 03 SEC  
WTPG.P's Overlaps (In= 14.78 km, Out= 0.4 km)

WTPG.P CH 205 B1 DA  
Lat= 41 25 39.0, Lng= 83 36 30.0  
11.0 kW 80.9 M HAAT, 282 M COR  
Prot.= 60 dBu, Intef.= 40 dBu

WJTA CH 205 A DA BLED20100823ACO  
Lat= 41 05 36.0, Lng= 84 01 30.0  
2.0 kW 55.3 M HAAT, 281 M COR  
Prot.= 60 dBu, Intef.= 40 dBu



**Munn-Reese, Inc.**

Broadcast Engineering Consultants  
Coldwater, MI 49036

## Exhibit 18.5

### Contour Protection Toward WJTA(FM) - Glandorf, OH (CH205A)

06-02-2011

Terrain Data: NED 03 SEC

FMOver Analysis

WTPG.P

WJTA BLED20100823ACO

Channel = 205B1

Max ERP = 11 kW

RCAMSL = 282 M

N. Lat. 41 25 39.0

W. Lng. 83 36 30.0

Protected

60 dBu

Channel = 205A

Max ERP = 2 kW

RCAMSL = 281 M

N. Lat. 41 05 36.0

W. Lng. 84 01 30.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
180.0	001.7776	0076.6	018.7	062.0	000.0673	0057.6	039.4	31.85	
181.0	001.7354	0076.5	018.6	061.6	000.0668	0057.7	039.2	31.92	
182.0	001.6938	0076.4	018.4	061.2	000.0663	0057.7	039.0	31.98	
183.0	001.6526	0076.4	018.3	060.8	000.0658	0057.8	038.8	32.04	
184.0	001.6119	0076.3	018.2	060.4	000.0653	0057.9	038.6	32.10	
185.0	001.5717	0076.2	018.1	060.0	000.0648	0058.0	038.4	32.15	
186.0	001.5321	0076.2	017.9	059.5	000.0647	0058.0	038.2	32.22	
187.0	001.4929	0076.0	017.8	059.1	000.0647	0058.1	038.1	32.29	
188.0	001.4543	0075.7	017.6	058.6	000.0646	0058.1	037.9	32.34	
189.0	001.4161	0075.4	017.5	058.1	000.0645	0058.2	037.8	32.39	
190.0	001.3785	0075.7	017.4	057.7	000.0645	0058.2	037.6	32.45	
191.0	001.3222	0075.7	017.2	057.2	000.0644	0058.1	037.6	32.48	
192.0	001.2671	0075.3	016.9	056.6	000.0643	0058.3	037.5	32.52	
193.0	001.2132	0075.1	016.7	056.0	000.0642	0058.1	037.5	32.49	
194.0	001.1604	0074.9	016.4	055.4	000.0641	0058.0	037.5	32.48	
195.0	001.1089	0074.6	016.2	054.9	000.0641	0057.9	037.5	32.47	
196.0	001.0585	0074.5	016.0	054.3	000.0640	0057.9	037.5	32.45	
197.0	001.0092	0074.4	015.8	053.8	000.0639	0057.9	037.5	32.45	
198.0	000.9612	0074.3	015.5	053.2	000.0638	0058.0	037.5	32.45	
199.0	000.9143	0074.1	015.3	052.7	000.0638	0058.0	037.5	32.44	
200.0	000.8686	0074.1	015.1	052.2	000.0637	0058.1	037.5	32.43	
201.0	000.8337	0073.9	014.9	051.7	000.0636	0058.2	037.6	32.43	
202.0	000.7995	0073.8	014.7	051.2	000.0635	0058.2	037.6	32.42	
203.0	000.7661	0073.7	014.6	050.8	000.0635	0058.2	037.6	32.40	
204.0	000.7333	0073.4	014.4	050.3	000.0634	0058.2	037.7	32.38	
205.0	000.7013	0073.1	014.2	049.8	000.0634	0058.3	037.7	32.37	
206.0	000.6700	0073.0	014.0	049.4	000.0634	0058.4	037.8	32.36	
207.0	000.6394	0073.0	013.9	049.0	000.0634	0058.4	037.8	32.34	
208.0	000.6095	0073.1	013.7	048.5	000.0634	0058.5	037.9	32.33	
209.0	000.5804	0073.3	013.6	048.1	000.0634	0058.6	037.9	32.32	
210.0	000.5519	0073.3	013.4	047.7	000.0634	0058.6	038.0	32.30	
211.0	000.5358	0073.2	013.3	047.3	000.0634	0058.7	038.0	32.29	
212.0	000.5199	0072.9	013.2	046.9	000.0634	0058.7	038.1	32.27	
213.0	000.5042	0073.0	013.1	046.6	000.0634	0058.7	038.1	32.26	

**Munn-Reese, Inc.**

Broadcast Engineering Consultants  
Coldwater, MI 49036

## Exhibit 18.5

### Contour Protection Toward WJTA(FM) - Glandorf, OH (CH205A)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
214.0	000.4888	0073.1	013.0	046.2	000.0634	0058.8	038.2	32.25
215.0	000.4736	0073.1	012.9	045.8	000.0634	0058.8	038.2	32.24
216.0	000.4587	0073.1	012.8	045.5	000.0634	0058.8	038.3	32.22
217.0	000.4440	0073.1	012.7	045.1	000.0634	0058.8	038.3	32.20
218.0	000.4295	0073.4	012.6	044.8	000.0634	0058.8	038.4	32.18
219.0	000.4153	0073.6	012.6	044.5	000.0634	0058.9	038.4	32.16
220.0	000.4013	0073.8	012.5	044.1	000.0634	0058.9	038.5	32.14
221.0	000.4013	0074.0	012.5	043.8	000.0634	0059.0	038.5	32.16
222.0	000.4013	0074.1	012.5	043.5	000.0634	0059.1	038.5	32.17
223.0	000.4013	0074.5	012.5	043.2	000.0634	0059.1	038.4	32.19
224.0	000.4013	0074.9	012.6	042.8	000.0634	0059.1	038.4	32.21
225.0	000.4013	0075.2	012.6	042.5	000.0634	0059.2	038.4	32.23
226.0	000.4013	0075.4	012.6	042.2	000.0634	0059.3	038.4	32.24
227.0	000.4013	0075.6	012.6	041.8	000.0634	0059.3	038.4	32.24
228.0	000.4013	0075.5	012.6	041.5	000.0634	0059.4	038.4	32.23
229.0	000.4013	0075.5	012.6	041.2	000.0634	0059.3	038.4	32.22
230.0	000.4013	0075.6	012.6	040.9	000.0634	0059.3	038.5	32.21
231.0	000.4161	0075.7	012.7	040.5	000.0634	0059.3	038.4	32.24
232.0	000.4312	0075.9	012.9	040.1	000.0634	0059.4	038.3	32.28
233.0	000.4466	0075.9	013.0	039.8	000.0634	0059.5	038.2	32.31
234.0	000.4623	0076.0	013.1	039.4	000.0634	0059.6	038.2	32.34
235.0	000.4782	0076.1	013.2	039.0	000.0634	0059.6	038.1	32.37
236.0	000.4944	0076.1	013.3	038.7	000.0634	0059.7	038.1	32.39
237.0	000.5108	0076.0	013.4	038.3	000.0634	0059.7	038.1	32.40
238.0	000.5276	0075.9	013.5	037.9	000.0634	0059.7	038.1	32.41
239.0	000.5446	0076.0	013.6	037.5	000.0634	0059.8	038.0	32.42
240.0	000.5618	0075.9	013.7	037.1	000.0634	0059.8	038.0	32.43
241.0	000.5916	0075.9	013.9	036.7	000.0634	0059.8	038.0	32.45
242.0	000.6220	0075.9	014.0	036.3	000.0634	0059.7	037.9	32.46
243.0	000.6533	0076.0	014.2	035.8	000.0634	0059.7	037.9	32.48
244.0	000.6853	0076.1	014.4	035.3	000.0634	0059.7	037.8	32.49
245.0	000.7181	0076.2	014.6	034.9	000.0634	0059.7	037.8	32.51
246.0	000.7516	0076.2	014.8	034.4	000.0634	0059.6	037.8	32.51
247.0	000.7859	0076.3	014.9	033.9	000.0634	0059.6	037.8	32.50
248.0	000.8210	0076.3	015.1	033.5	000.0634	0059.6	037.8	32.50
249.0	000.8569	0076.3	015.3	033.0	000.0634	0059.6	037.8	32.50
250.0	000.8935	0076.4	015.5	032.5	000.0634	0059.6	037.8	32.49
251.0	000.9398	0076.6	015.7	031.9	000.0634	0059.5	037.8	32.49
252.0	000.9874	0076.9	015.9	031.4	000.0634	0059.5	037.8	32.50
253.0	001.0361	0077.2	016.2	030.8	000.0634	0059.5	037.8	32.50
254.0	001.0859	0077.4	016.4	030.2	000.0634	0059.5	037.8	32.50
255.0	001.1370	0077.5	016.7	029.7	000.0634	0059.5	037.8	32.48
256.0	001.1892	0077.6	016.9	029.1	000.0634	0059.5	037.9	32.46
257.0	001.2426	0077.7	017.1	028.6	000.0635	0059.6	037.9	32.45
258.0	001.2972	0077.8	017.3	028.0	000.0635	0059.6	038.0	32.42
259.0	001.3529	0077.9	017.5	027.5	000.0635	0059.8	038.1	32.40
260.0	001.4098	0078.0	017.8	027.0	000.0636	0059.7	038.2	32.35

**Munn-Reese, Inc.**

Broadcast Engineering Consultants  
Coldwater, MI 49036

## Exhibit 18.5

### Contour Protection Toward WJTA(FM) - Glandorf, OH (CH205A)

06-02-2011

Terrain Data: NED 03 SEC

FMOver Analysis

WJTA BLED20100823ACO

WTPG.P

Channel = 205A

Max ERP = 2 kW

RCAMSL = 281 M

N. Lat. 41 05 36.0

W. Lng. 84 01 30.0

Protected

60 dBu

Channel = 205B1

Max ERP = 11 kW

RCAMSL = 282 M

N. Lat. 41 25 39.0

W. Lng. 83 36 30.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
000.0	000.1602	0058.6	009.0	231.2	000.4185	0075.7	044.8	39.82	
001.0	000.1537	0058.6	008.9	230.9	000.4152	0075.7	044.7	39.80	
002.0	000.1473	0058.8	008.8	230.7	000.4120	0075.6	044.7	39.78	
003.0	000.1411	0058.9	008.7	230.5	000.4087	0075.6	044.6	39.77	
004.0	000.1350	0059.0	008.6	230.3	000.4054	0075.6	044.6	39.74	
005.0	000.1290	0058.9	008.5	230.0	000.4019	0075.6	044.5	39.72	
006.0	000.1232	0059.0	008.4	229.8	000.4013	0075.6	044.5	39.72	
007.0	000.1175	0059.2	008.3	229.6	000.4013	0075.6	044.5	39.73	
008.0	000.1120	0059.3	008.2	229.4	000.4013	0075.5	044.5	39.73	
009.0	000.1065	0059.3	008.1	229.1	000.4013	0075.5	044.4	39.74	
010.0	000.1012	0059.3	008.0	228.9	000.4013	0075.5	044.5	39.73	
011.0	000.0972	0059.3	007.9	228.7	000.4013	0075.5	044.4	39.74	
012.0	000.0931	0059.4	007.8	228.5	000.4013	0075.5	044.4	39.74	
013.0	000.0892	0059.4	007.7	228.3	000.4013	0075.5	044.4	39.74	
014.0	000.0854	0059.3	007.6	228.1	000.4013	0075.5	044.4	39.74	
015.0	000.0816	0059.4	007.5	227.9	000.4013	0075.5	044.4	39.74	
016.0	000.0779	0059.5	007.4	227.7	000.4013	0075.5	044.4	39.75	
017.0	000.0743	0059.4	007.3	227.5	000.4013	0075.5	044.4	39.74	
018.0	000.0708	0059.4	007.3	227.3	000.4013	0075.5	044.4	39.74	
019.0	000.0674	0059.5	007.2	227.1	000.4013	0075.6	044.5	39.73	
020.0	000.0641	0059.5	007.1	226.9	000.4013	0075.6	044.5	39.73	
021.0	000.0640	0059.5	007.1	226.7	000.4013	0075.6	044.4	39.75	
022.0	000.0639	0059.6	007.1	226.6	000.4013	0075.6	044.4	39.76	
023.0	000.0639	0059.7	007.1	226.4	000.4013	0075.5	044.3	39.78	
024.0	000.0638	0059.7	007.1	226.3	000.4013	0075.5	044.3	39.79	
025.0	000.0637	0059.6	007.1	226.1	000.4013	0075.5	044.2	39.81	
026.0	000.0637	0059.8	007.1	226.0	000.4013	0075.4	044.2	39.82	
027.0	000.0636	0059.7	007.1	225.8	000.4013	0075.4	044.2	39.83	
028.0	000.0635	0059.6	007.1	225.7	000.4013	0075.3	044.1	39.83	
029.0	000.0634	0059.5	007.1	225.5	000.4013	0075.3	044.1	39.84	
030.0	000.0634	0059.5	007.1	225.4	000.4013	0075.2	044.1	39.85	

**Munn-Reese, Inc.**

Broadcast Engineering Consultants

Coldwater, MI 49036

## Exhibit 18.5

### Contour Protection Toward WJTA(FM) - Glandorf, OH (CH205A)

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Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
031.0	000.0634	0059.5	007.1	225.2	000.4013	0075.2	044.0	39.85
032.0	000.0634	0059.5	007.1	225.0	000.4013	0075.2	044.0	39.86
033.0	000.0634	0059.6	007.1	224.9	000.4013	0075.1	044.0	39.87
034.0	000.0634	0059.6	007.1	224.7	000.4013	0075.1	044.0	39.87
035.0	000.0634	0059.7	007.1	224.6	000.4013	0075.0	043.9	39.88
036.0	000.0634	0059.7	007.1	224.4	000.4013	0075.0	043.9	39.88
037.0	000.0634	0059.8	007.1	224.3	000.4013	0074.9	043.9	39.88
038.0	000.0634	0059.7	007.1	224.1	000.4013	0074.9	043.9	39.88
039.0	000.0634	0059.6	007.1	223.9	000.4013	0074.9	043.9	39.88
040.0	000.0634	0059.4	007.1	223.8	000.4013	0074.8	043.9	39.87
041.0	000.0634	0059.3	007.0	223.6	000.4013	0074.7	043.9	39.87
042.0	000.0634	0059.3	007.0	223.5	000.4013	0074.7	043.9	39.86
043.0	000.0634	0059.1	007.0	223.3	000.4013	0074.6	043.9	39.85
044.0	000.0634	0058.9	007.0	223.1	000.4013	0074.6	043.9	39.84
045.0	000.0634	0058.8	007.0	223.0	000.4013	0074.5	043.9	39.83
046.0	000.0634	0058.8	007.0	222.8	000.4013	0074.4	043.9	39.82
047.0	000.0634	0058.7	007.0	222.7	000.4013	0074.3	043.9	39.80
048.0	000.0634	0058.6	007.0	222.5	000.4013	0074.2	043.9	39.79
049.0	000.0634	0058.4	007.0	222.3	000.4013	0074.2	044.0	39.78
050.0	000.0634	0058.3	007.0	222.2	000.4013	0074.1	044.0	39.76
051.0	000.0635	0058.2	007.0	222.0	000.4013	0074.1	044.0	39.75
052.0	000.0637	0058.2	007.0	221.9	000.4013	0074.1	044.0	39.74
053.0	000.0638	0058.0	007.0	221.7	000.4013	0074.1	044.1	39.73
054.0	000.0639	0057.9	007.0	221.6	000.4013	0074.1	044.1	39.72
055.0	000.0641	0057.9	007.0	221.4	000.4013	0074.0	044.1	39.71
056.0	000.0642	0058.0	007.0	221.3	000.4013	0074.0	044.1	39.70
057.0	000.0644	0058.2	007.0	221.1	000.4013	0074.0	044.1	39.69
058.0	000.0645	0058.2	007.0	220.9	000.4013	0074.0	044.2	39.68
059.0	000.0647	0058.1	007.0	220.8	000.4013	0074.0	044.2	39.66
060.0	000.0648	0058.0	007.0	220.6	000.4013	0073.9	044.3	39.64
061.0	000.0660	0057.8	007.0	220.5	000.4013	0073.8	044.3	39.62
062.0	000.0673	0057.6	007.1	220.3	000.4013	0073.8	044.3	39.61
063.0	000.0685	0057.3	007.1	220.2	000.4013	0073.8	044.3	39.60
064.0	000.0698	0057.1	007.1	220.0	000.4013	0073.8	044.4	39.59
065.0	000.0711	0057.0	007.1	219.9	000.4034	0073.7	044.4	39.59
066.0	000.0724	0057.0	007.1	219.7	000.4056	0073.7	044.4	39.60
067.0	000.0737	0056.7	007.2	219.5	000.4077	0073.7	044.5	39.61
068.0	000.0750	0056.6	007.2	219.4	000.4099	0073.6	044.5	39.62
069.0	000.0763	0056.5	007.2	219.2	000.4121	0073.6	044.5	39.62
070.0	000.0776	0056.3	007.2	219.1	000.4143	0073.6	044.6	39.63
071.0	000.0818	0056.0	007.3	218.9	000.4170	0073.5	044.6	39.65
072.0	000.0860	0055.7	007.4	218.7	000.4197	0073.5	044.6	39.67
073.0	000.0904	0055.6	007.5	218.5	000.4225	0073.4	044.6	39.69
074.0	000.0949	0055.5	007.6	218.3	000.4254	0073.4	044.6	39.71
075.0	000.0995	0055.3	007.6	218.1	000.4282	0073.4	044.6	39.73

**Munn-Reese, Inc.**

Broadcast Engineering Consultants  
Coldwater, MI 49036

## Exhibit 18.6

### Contour Protection Toward WXTS-FM - Toledo, OH (CH202A)

Penfold Communications, Inc.

FMCommander Single Allocation Study - 06-02-2011 - NED 03 SEC

WTPG.P's Overlaps (In= 0.67 km, Out= 18.55 km)

WTPG.P CH 205 B1 DA

Lat= 41 25 39.0, Lng= 83 36 30.0

11.0 kW 80.9 M HAAT, 282 M COR

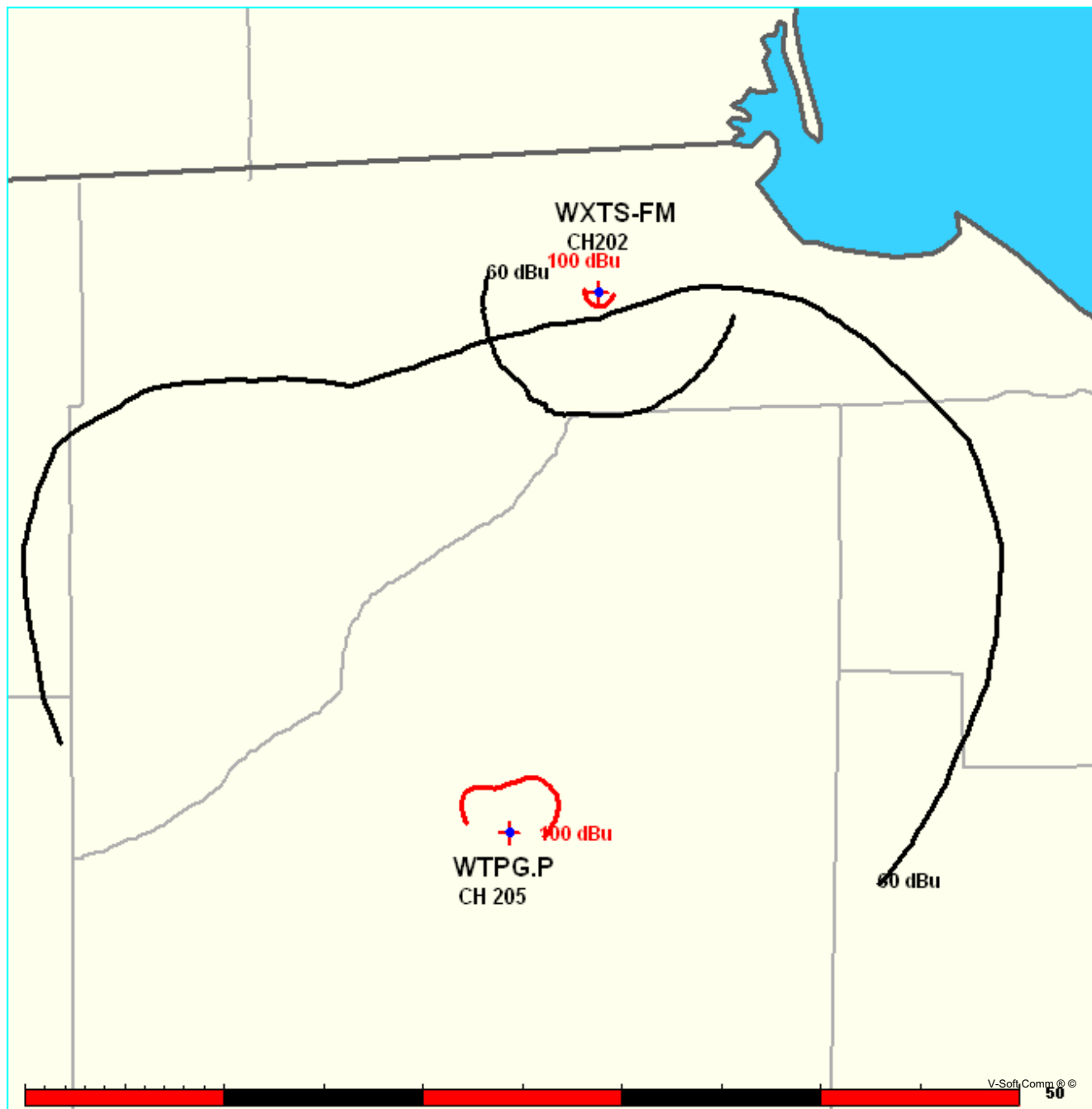
Prot.= 60 dBu, Intef.= 100 dBu

WXTS-FM CH 202 A BLED19811130AM

Lat= 41 40 07.0, Lng= 83 33 15.0

0.105 kW 38 M HAAT, 224 M COR

Prot.= 60 dBu, Intef.= 100 dBu



## Exhibit 18.6

### Contour Protection Toward WXTS-FM - Toledo, OH (CH202A)

06-02-2011

Terrain Data: NED 03 SEC

FMOver Analysis

WTPG.P

WXTS-FM BLED19811130AM

Channel = 205B1

Max ERP = 11 kW

RCAMSL = 282 M

N. Lat. 41 25 39.0

W. Lng. 83 36 30.0

Protected

60 dBu

Channel = 202A

Max ERP = 0.105 kW

RCAMSL = 224 M

N. Lat. 41 40 07.0

W. Lng. 83 33 15.0

Interfering

100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
325.0	007.1726	0084.9	027.3	257.6	000.1050	0032.9	020.6	39.34	
326.0	006.8477	0085.0	027.0	257.4	000.1050	0032.8	020.0	39.72	
327.0	006.5304	0085.0	026.7	257.1	000.1050	0032.6	019.5	40.11	
328.0	006.2205	0085.2	026.4	256.8	000.1050	0032.5	019.0	40.51	
329.0	005.9182	0085.2	026.2	256.4	000.1050	0032.5	018.5	40.94	
330.0	005.6235	0085.3	025.9	255.9	000.1050	0032.4	017.9	41.35	
331.0	005.4008	0085.4	025.6	255.6	000.1050	0032.5	017.5	41.77	
332.0	005.1826	0085.7	025.4	255.3	000.1050	0032.6	017.0	42.20	
333.0	004.9689	0086.1	025.3	255.1	000.1050	0032.6	016.5	42.61	
334.0	004.7597	0086.0	025.0	254.5	000.1050	0032.9	016.0	43.07	
335.0	004.5550	0085.8	024.7	253.8	000.1050	0032.7	015.6	43.45	
336.0	004.3548	0086.1	024.5	253.2	000.1050	0032.5	015.1	43.79	
337.0	004.1591	0086.4	024.3	252.6	000.1050	0032.5	014.7	44.22	
338.0	003.9679	0086.4	024.1	251.7	000.1050	0032.8	014.2	44.83	
339.0	003.7812	0086.3	023.8	250.7	000.1050	0033.0	013.8	45.43	
340.0	003.5990	0086.3	023.5	249.5	000.1050	0033.3	013.4	46.05	
341.0	003.5990	0086.3	023.5	249.5	000.1050	0033.3	013.0	46.61	
342.0	003.5990	0086.2	023.5	249.4	000.1050	0033.4	012.6	47.21	
343.0	003.5990	0086.3	023.5	249.4	000.1050	0033.4	012.1	47.82	
344.0	003.5990	0086.5	023.5	249.3	000.1050	0033.4	011.7	48.45	
345.0	003.5990	0086.4	023.5	249.1	000.1050	0033.5	011.3	49.11	
346.0	003.5990	0086.6	023.6	248.9	000.1050	0033.5	010.9	49.78	
347.0	003.5990	0086.4	023.5	248.5	000.1050	0033.6	010.5	50.50	
348.0	003.5990	0086.4	023.5	248.1	000.1050	0033.6	010.1	51.19	
349.0	003.5990	0087.1	023.6	248.3	000.1050	0033.7	009.7	51.94	
350.0	003.5990	0087.5	023.7	248.1	000.1050	0033.6	009.3	52.66	
351.0	003.6813	0087.4	023.8	248.2	000.1050	0033.6	008.8	53.47	
352.0	003.7645	0086.9	023.8	247.9	000.1050	0033.5	008.4	54.22	
353.0	003.8486	0086.6	023.9	247.7	000.1050	0033.4	008.0	55.01	
354.0	003.9336	0086.3	024.0	247.4	000.1050	0033.5	007.6	55.90	
355.0	004.0196	0086.4	024.1	247.5	000.1050	0033.4	007.1	56.92	
356.0	004.1065	0086.6	024.3	247.5	000.1050	0033.4	006.7	58.04	
357.0	004.1944	0086.4	024.4	247.0	000.1050	0033.6	006.3	59.22	
358.0	004.2831	0086.3	024.5	246.5	000.1050	0033.8	005.8	60.54	
359.0	004.3728	0086.1	024.6	245.7	000.1050	0033.8	005.4	61.89	
000.0	004.4635	0085.8	024.6	244.4	000.1050	0033.9	005.0	63.27	

**Munn-Reese, Inc.**

Broadcast Engineering Consultants

Coldwater, MI 49036

## Exhibit 18.6

### Contour Protection Toward WXTS-FM - Toledo, OH (CH202A)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
001.0	004.5734	0085.5	024.7	243.1	000.1050	0033.9	004.6	64.71
002.0	004.6848	0085.5	024.9	242.0	000.1050	0034.0	004.1	66.52
003.0	004.7974	0085.7	025.0	240.6	000.1050	0034.3	003.7	68.66
004.0	004.9114	0085.8	025.2	238.7	000.1050	0034.6	003.2	71.00
005.0	005.0267	0085.7	025.3	235.3	000.1050	0035.2	002.8	73.68
006.0	005.1434	0085.5	025.4	230.3	000.1050	0034.4	002.4	76.33
007.0	005.2614	0085.4	025.5	223.5	000.1050	0033.8	002.0	79.31
008.0	005.3808	0085.3	025.6	213.7	000.1050	0037.9	001.7	83.31
009.0	005.5015	0085.2	025.7	199.6	000.1050	0038.4	001.4	93.93
010.0	005.6235	0085.2	025.9	180.9	000.1050	0034.9	001.3	94.78
011.0	005.9182	0085.2	026.1	156.8	000.1050	0037.5	001.2	95.48
012.0	006.2205	0085.1	026.4	133.5	000.1050	0038.9	001.4	94.51
013.0	006.5304	0085.1	026.7	116.7	000.1050	0040.7	001.7	84.29
014.0	006.8477	0085.0	027.0	106.5	000.1050	0042.8	002.1	80.95
015.0	007.1726	0084.9	027.3	099.9	000.1050	0044.1	002.6	77.35
016.0	007.5050	0085.3	027.6	094.7	000.1050	0044.9	003.1	74.06
017.0	007.8450	0085.8	027.9	090.9	000.1050	0045.7	003.6	71.42
018.0	008.1925	0086.0	028.3	088.7	000.1050	0046.1	004.2	68.99
019.0	008.5475	0086.1	028.5	087.6	000.1050	0046.3	004.8	66.90
020.0	008.9100	0086.2	028.8	086.7	000.1050	0046.6	005.3	65.01
021.0	009.1091	0086.3	029.0	087.2	000.1050	0046.4	005.9	63.24
022.0	009.3104	0086.5	029.2	087.7	000.1050	0046.3	006.4	61.65
023.0	009.5139	0086.4	029.3	088.4	000.1050	0046.1	006.9	60.25
024.0	009.7196	0086.6	029.5	088.9	000.1050	0046.0	007.5	58.97
025.0	009.9275	0086.6	029.6	089.5	000.1050	0045.9	008.0	57.83
026.0	010.1376	0086.7	029.8	090.1	000.1050	0045.8	008.5	56.81
027.0	010.3499	0086.7	029.9	090.8	000.1050	0045.8	009.0	55.81
028.0	010.5644	0086.8	030.1	091.3	000.1050	0045.8	009.6	54.84
029.0	010.7811	0086.6	030.2	092.1	000.1050	0045.6	010.1	53.89
030.0	011.0000	0086.3	030.3	093.0	000.1050	0045.3	010.6	52.96
031.0	011.0000	0086.2	030.2	094.4	000.1050	0044.9	011.1	52.12
032.0	011.0000	0086.2	030.3	095.5	000.1050	0044.8	011.5	51.32
033.0	011.0000	0086.3	030.3	096.6	000.1050	0044.7	012.0	50.57
034.0	011.0000	0086.2	030.2	097.8	000.1050	0044.5	012.5	49.82
035.0	011.0000	0086.2	030.3	098.8	000.1050	0044.3	013.0	49.09
036.0	011.0000	0086.1	030.2	099.9	000.1050	0044.1	013.4	48.41
037.0	011.0000	0086.0	030.2	100.9	000.1050	0043.9	013.9	47.75
038.0	011.0000	0086.0	030.2	101.9	000.1050	0043.7	014.4	47.13
039.0	011.0000	0085.9	030.2	102.9	000.1050	0043.7	014.8	46.57
040.0	011.0000	0085.7	030.2	103.9	000.1050	0043.6	015.3	46.27
041.0	011.0000	0085.6	030.2	104.7	000.1050	0043.3	015.8	45.80
042.0	011.0000	0085.7	030.2	105.5	000.1050	0043.1	016.2	45.33
043.0	011.0000	0085.6	030.2	106.4	000.1050	0042.9	016.7	44.89
044.0	011.0000	0085.2	030.1	107.4	000.1050	0042.6	017.1	44.45
045.0	011.0000	0085.3	030.1	108.1	000.1050	0042.4	017.6	44.01



## Exhibit 18.6

### Contour Protection Toward WXTS-FM - Toledo, OH (CH202A)

06-02-2011

Terrain Data: NED 03 SEC

FMOver Analysis

WXTS-FM BLED19811130AM

WTPG.P

Channel = 202A

Max ERP = 0.105 kW

RCAMSL = 224 M

N. Lat. 41 40 07.0

W. Lng. 83 33 15.0

Protected

60 dBu

Channel = 205B1

Max ERP = 11 kW

RCAMSL = 282 M

N. Lat. 41 25 39.0

W. Lng. 83 36 30.0

Interfering

100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
145.0	000.1050	0037.4	006.3	020.5	009.0192	0086.3	023.1	65.15	
146.0	000.1050	0037.2	006.3	020.4	008.9817	0086.2	023.0	65.18	
147.0	000.1050	0037.0	006.3	020.2	008.9434	0086.2	022.9	65.22	
148.0	000.1050	0036.9	006.3	020.0	008.9053	0086.2	022.9	65.26	
149.0	000.1050	0036.8	006.3	019.8	008.8340	0086.1	022.8	65.28	
150.0	000.1050	0036.9	006.3	019.6	008.7791	0086.1	022.7	65.32	
151.0	000.1050	0037.0	006.3	019.5	008.7177	0086.1	022.6	65.36	
152.0	000.1050	0037.3	006.3	019.3	008.6666	0086.1	022.5	65.40	
153.0	000.1050	0037.4	006.3	019.2	008.6036	0086.1	022.4	65.44	
154.0	000.1050	0037.6	006.3	019.0	008.5434	0086.1	022.3	65.47	
155.0	000.1050	0037.5	006.3	018.8	008.4678	0086.0	022.3	65.49	
156.0	000.1050	0037.5	006.3	018.6	008.3950	0086.1	022.2	65.51	
157.0	000.1050	0037.5	006.3	018.4	008.3192	0086.1	022.1	65.53	
158.0	000.1050	0037.4	006.3	018.1	008.2361	0086.1	022.0	65.53	
159.0	000.1050	0037.3	006.3	017.9	008.1576	0086.0	022.0	65.54	
160.0	000.1050	0037.1	006.3	017.6	008.0690	0085.9	021.9	65.52	
161.0	000.1050	0037.0	006.3	017.4	007.9840	0085.8	021.9	65.51	
162.0	000.1050	0036.9	006.3	017.2	007.8987	0085.7	021.8	65.50	
163.0	000.1050	0036.8	006.3	016.9	007.8128	0085.8	021.8	65.50	
164.0	000.1050	0036.5	006.2	016.6	007.7201	0085.6	021.7	65.46	
165.0	000.1050	0036.5	006.2	016.4	007.6362	0085.5	021.7	65.45	
166.0	000.1050	0036.4	006.2	016.1	007.5489	0085.3	021.6	65.42	
167.0	000.1050	0036.3	006.2	015.9	007.4622	0085.2	021.6	65.38	
168.0	000.1050	0036.2	006.2	015.6	007.3745	0085.1	021.5	65.36	
169.0	000.1050	0036.1	006.2	015.3	007.2866	0085.0	021.5	65.33	
170.0	000.1050	0036.1	006.2	015.1	007.1989	0085.0	021.4	65.31	
171.0	000.1050	0036.1	006.2	014.8	007.1137	0084.9	021.4	65.29	
172.0	000.1050	0036.0	006.2	014.5	007.0232	0085.0	021.3	65.26	
173.0	000.1050	0036.0	006.2	014.3	006.9364	0085.0	021.3	65.24	
174.0	000.1050	0035.9	006.2	014.0	006.8483	0085.0	021.3	65.21	
175.0	000.1050	0035.7	006.2	013.7	006.7549	0084.9	021.3	65.16	
176.0	000.1050	0035.5	006.2	013.4	006.6636	0085.0	021.2	65.12	
177.0	000.1050	0035.4	006.2	013.1	006.5740	0085.0	021.2	65.09	

**Munn-Reese, Inc.**

Broadcast Engineering Consultants

Coldwater, MI 49036

## Exhibit 18.6

### Contour Protection Toward WXTS-FM - Toledo, OH (CH202A)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
178.0	000.1050	0035.5	006.2	012.9	006.4894	0085.0	021.2	65.07
179.0	000.1050	0035.4	006.2	012.6	006.4003	0085.0	021.2	65.02
180.0	000.1050	0035.2	006.1	012.3	006.3096	0085.1	021.2	64.96
181.0	000.1050	0034.8	006.1	012.0	006.2177	0085.1	021.2	64.89
182.0	000.1050	0035.3	006.1	011.7	006.1365	0085.1	021.1	64.88
183.0	000.1050	0035.4	006.1	011.4	006.0512	0085.1	021.1	64.84
184.0	000.1050	0035.3	006.1	011.2	005.9636	0085.1	021.1	64.79
185.0	000.1050	0034.6	006.1	010.8	005.8725	0085.2	021.1	64.69
186.0	000.1050	0034.9	006.1	010.6	005.7893	0085.2	021.1	64.66
187.0	000.1050	0034.8	006.1	010.3	005.7043	0085.2	021.1	64.60
188.0	000.1050	0034.9	006.1	010.0	005.6223	0085.2	021.1	64.55
189.0	000.1050	0035.0	006.1	009.7	005.5870	0085.2	021.1	64.53
190.0	000.1050	0035.1	006.1	009.4	005.5517	0085.2	021.1	64.50
191.0	000.1050	0035.1	006.1	009.1	005.5163	0085.2	021.1	64.47
192.0	000.1050	0035.4	006.2	008.8	005.4807	0085.3	021.0	64.47
193.0	000.1050	0036.2	006.2	008.5	005.4439	0085.3	021.0	64.49
194.0	000.1050	0036.6	006.2	008.2	005.4076	0085.3	021.0	64.48
195.0	000.1050	0037.3	006.3	007.9	005.3696	0085.3	020.9	64.48
196.0	000.1050	0037.8	006.3	007.6	005.3321	0085.3	020.9	64.47
197.0	000.1050	0038.1	006.4	007.3	005.2952	0085.3	020.9	64.45
198.0	000.1050	0038.1	006.4	007.0	005.2599	0085.4	020.9	64.41
199.0	000.1050	0038.1	006.4	006.7	005.2246	0085.4	020.9	64.37
200.0	000.1050	0038.5	006.4	006.4	005.1873	0085.4	020.9	64.34
201.0	000.1050	0038.2	006.4	006.1	005.1545	0085.5	021.0	64.28
202.0	000.1050	0038.3	006.4	005.8	005.1197	0085.5	021.0	64.24
203.0	000.1050	0039.0	006.4	005.5	005.0803	0085.7	021.0	64.24
204.0	000.1050	0039.4	006.5	005.1	005.0430	0085.7	021.0	64.21
205.0	000.1050	0038.2	006.4	004.9	005.0197	0085.7	021.1	64.08
206.0	000.1050	0036.4	006.2	004.8	005.0037	0085.7	021.3	63.93
207.0	000.1050	0036.3	006.2	004.5	004.9738	0085.7	021.3	63.86
208.0	000.1050	0036.5	006.2	004.3	004.9410	0085.8	021.4	63.82
209.0	000.1050	0036.6	006.3	004.0	004.9086	0085.8	021.4	63.77
210.0	000.1050	0036.7	006.3	003.7	004.8778	0086.0	021.4	63.73
211.0	000.1050	0037.0	006.3	003.4	004.8451	0085.9	021.5	63.67
212.0	000.1050	0037.3	006.3	003.1	004.8124	0085.7	021.5	63.60
213.0	000.1050	0038.2	006.4	002.8	004.7722	0085.6	021.5	63.56
214.0	000.1050	0037.2	006.3	002.6	004.7560	0085.6	021.6	63.45
215.0	000.1050	0036.1	006.2	002.5	004.7437	0085.7	021.7	63.33
216.0	000.1050	0035.0	006.1	002.4	004.7311	0085.6	021.9	63.21
217.0	000.1050	0034.4	006.1	002.3	004.7143	0085.6	022.0	63.11
218.0	000.1050	0034.1	006.0	002.1	004.6929	0085.5	022.1	63.03
219.0	000.1050	0033.8	006.0	001.9	004.6727	0085.5	022.1	62.94
220.0	000.1050	0033.7	006.0	001.7	004.6512	0085.5	022.2	62.86
221.0	000.1050	0033.6	006.0	001.5	004.6289	0085.5	022.3	62.78
222.0	000.1050	0033.6	006.0	001.3	004.6055	0085.4	022.3	62.71
223.0	000.1050	0033.7	006.0	001.1	004.5829	0085.4	022.4	62.63
224.0	000.1050	0034.0	006.0	000.8	004.5555	0085.5	022.5	62.58
225.0	000.1050	0033.8	006.0	000.7	004.5384	0085.5	022.6	62.50

**Munn-Reese, Inc.**

Broadcast Engineering Consultants

Coldwater, MI 49036

## Exhibit 18.7

### Tabulation of Proposed Directional Antenna Pattern

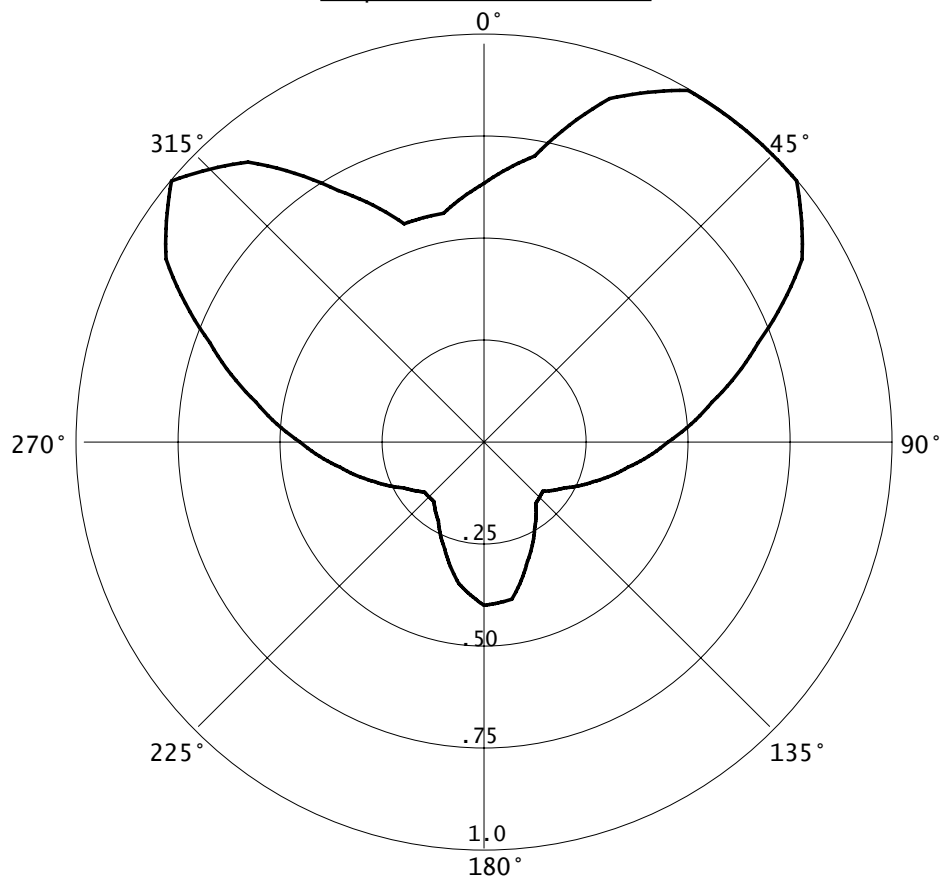
WTPG.P

06-02-2011

RMS(V)= .595

Graph is Relative Field

Azi	Field	dBk	kw
000	0.637	06.497	4.463
010	0.715	07.500	5.623
020	0.900	09.499	8.910
030	1.000	10.414	11.00
040	1.000	10.414	11.00
050	1.000	10.414	11.00
060	0.900	09.499	8.910
070	0.715	07.500	5.623
080	0.568	05.501	3.549
090	0.451	03.497	2.237
100	0.358	01.492	1.410
110	0.285	-00.489	0.893
120	0.226	-02.504	0.562
130	0.188	-04.100	0.389
140	0.197	-03.697	0.427
150	0.248	-01.697	0.677
160	0.312	00.297	1.071
170	0.393	02.302	1.699
180	0.402	02.498	1.778
190	0.354	01.394	1.378
200	0.281	-00.612	0.869
210	0.224	-02.581	0.552
220	0.191	-03.965	0.401
230	0.191	-03.965	0.401
240	0.226	-02.504	0.562
250	0.285	-00.489	0.893
260	0.358	01.492	1.410
270	0.451	03.497	2.237
280	0.568	05.501	3.549
290	0.715	07.500	5.623
300	0.900	09.499	8.910
310	1.000	10.414	11.00
320	0.900	09.499	8.910
330	0.715	07.500	5.623
340	0.572	05.562	3.599
350	0.572	05.562	3.599



The antenna proposed in this application will be mounted in accordance with specific instructions provided by the antenna manufacturer. The antenna will be tested by the manufacturer using the type of mounting which will be employed in the field.

The directional antenna will be mounted on the tower which is of uniform cross section. No other antennas of any type are or will be mounted on the same tower level as the directional antenna.

No antenna is or will be mounted within any vertical or horizontal distance specified by the antenna manufacturer as being necessary for proper operation of the directional antenna. The antenna will be assembled under the supervision of a qualified engineer, who will provide the required certification. This statement will certify that the antenna has been installed pursuant to the manufacturer's instructions. Also upon completion of antenna construction, a statement from a licensed surveyor will be submitted with the application for license certifying the antenna has been installed in the proper orientation.

The directional antenna pattern will be produced by means of the antenna yagi element design, adjusted to produce the required pattern.

The antenna pattern will be measured by the manufacturer on the test range, and the measurement results will be supplied to the Commission at the time Form 302-FM is filed covering the construction.

**Munn-Reese, Inc.**

Broadcast Engineering Consultants  
Coldwater, MI 49036