

Exhibit 18.1

Tabulation of Proposed WSPB Allocation Study

Munn-Reese, Inc.
Coldwater, MI 49036

WSPB - Bedford, MI
Holy Family Radio, Inc.

REFERENCE	CH#	209A - - 89.7 MHz, Pwr= 4.5 kW DA, HAAT= 74.6 M, COR= 354 M											DISPLAY DATES
42 27 27.0 N.		Average Protected F(50-50)= 23.18 km											DATA 01-21-14
85 14 53.0 W.		Standard Directional											SEARCH 01-21-14
CH	CALL	TYPE	ANT	AZI	DIST	LAT	PWR(kw)	INT(km)	PRO(km)	*IN*	*OUT*		
CITY		STATE		<--	FILE #	LNG	HAAT(M)	COR(M)	LICENSEE	(Overlap	in km)		
209A WSPB Bedford	LIC _HX MI	217.6 37.6	5.22 BLED20121108AMV	42 25 13.0 85 17 13.0	0.205 16	22.6 294	6.7 Holy Family Radio, Inc.	-34.3*	-59.6*				
211B WYBA Coldwater	LIC DC_ MI	174.8 354.8	34.91 BLED20111114AXC	42 08 41.0 85 12 34.0	32.000 77	3.2 359	31.4 Bible Broadcasting Network	7.1	1.1				
210A WKDS Kalamazoo	LIC _CN MI	228.3 48.1	35.71 BLED19830204AK	42 14 36.0 85 34 19.0	0.140 38	10.4 303	7.3 Kalamazoo Public Schools	7.2	1.8				
SPECIAL NEGOTIATED SHORT-SPACED ALLOTMENT													
209A WCXG Grand Rapids	CP DCX MI	334.0 153.7	64.43 BPED20110726AES	42 58 40.0 85 35 44.0	3.200 74	49.6 299	13.9 Cornerstone University	3.3	10.8				
10/31/2011: Accepted on channel 209-A (42-58-40 N, 85-35-44 W) by Industry Canada in 10/13/2011 letter. Note: not short-spaced.													
209A WLNZ Lansing	LIC DCX MI	61.1 241.5	64.82 BLED20131127BHJ	42 44 15.0 84 33 12.0	1.000 33	35.6 293	10.2 Lansing Community College	14.9	4.1				
206A WOCR Olivet	LIC _CX MI	93.6 273.8	26.55 BLED20100908ACJ	42 26 31.0 84 55 30.0	0.500 25	1.6 303	9.0 Board of Trustees/olivet C	5.6	15.7				
208B1 WOFR Schoolcraft	LIC DCX MI	219.5 39.2	49.87 BMLED20130530AMJ	42 06 38.0 85 37 57.0	10.000 42	22.9 305	15.4 Family Stations, Inc.	10.1	9.6				
206A WIDR Kalamazoo	LIC _CN MI	237.4 57.2	36.12 BLED19881031KA	42 16 55.0 85 37 05.0	0.100 57	0.7 319	7.6 Western Michigan Universit	16.0	26.7				
210A WCXG Grand Rapids	LIC DCX MI	334.0 153.7	64.43 BLED20050809ACJ	42 58 40.0 85 35 44.0	4.900 63	28.9 288	19.7 Cornerstone University	23.9	27.9				
210C1 CBEFM« Windsor	OPE _CN ON	99.4 281.0	192.34 19990817CAN	42 09 09.0 82 57 05.0	100.000 164	90.7 348	74.4 167.5R	24.8M					
SPEC. NEGTD SHORT-SPACED ALLOC. EDUCATIONAL TO BE USED COMMERC													

Terrain database is USGS 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.
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 protected contour.
< = Station meets FCC minimum distance spacing for its class.
< = Contour Overlap
Reference station has protected zone issue:

Exhibit 18.2

WSPB - Bedford, MI
Holy Family Radio, Inc.

Protection to WYBA(FM) - Coldwater, MI

FMCommander Single Allocation Study - 01-21-2014 - USGS 03 SEC
WSPB's Overlaps (In= 7.05 km, Out= 1.12 km)

WSPB CH 209 A DA
Lat= 42 27 27.0, Lng= 85 14 53.0
4.5 kW 74.6 M HAAT, 354 M COR
Prot.= 60 dBu, Intef.= 100 dBu

WYBA CH 211 B DA BLED20111114AXC
Lat= 42 08 41.0, Lng= 85 12 34.0
32.0 kW 77 M HAAT, 359 M COR
Prot.= 60 dBu, Intef.= 100 dBu

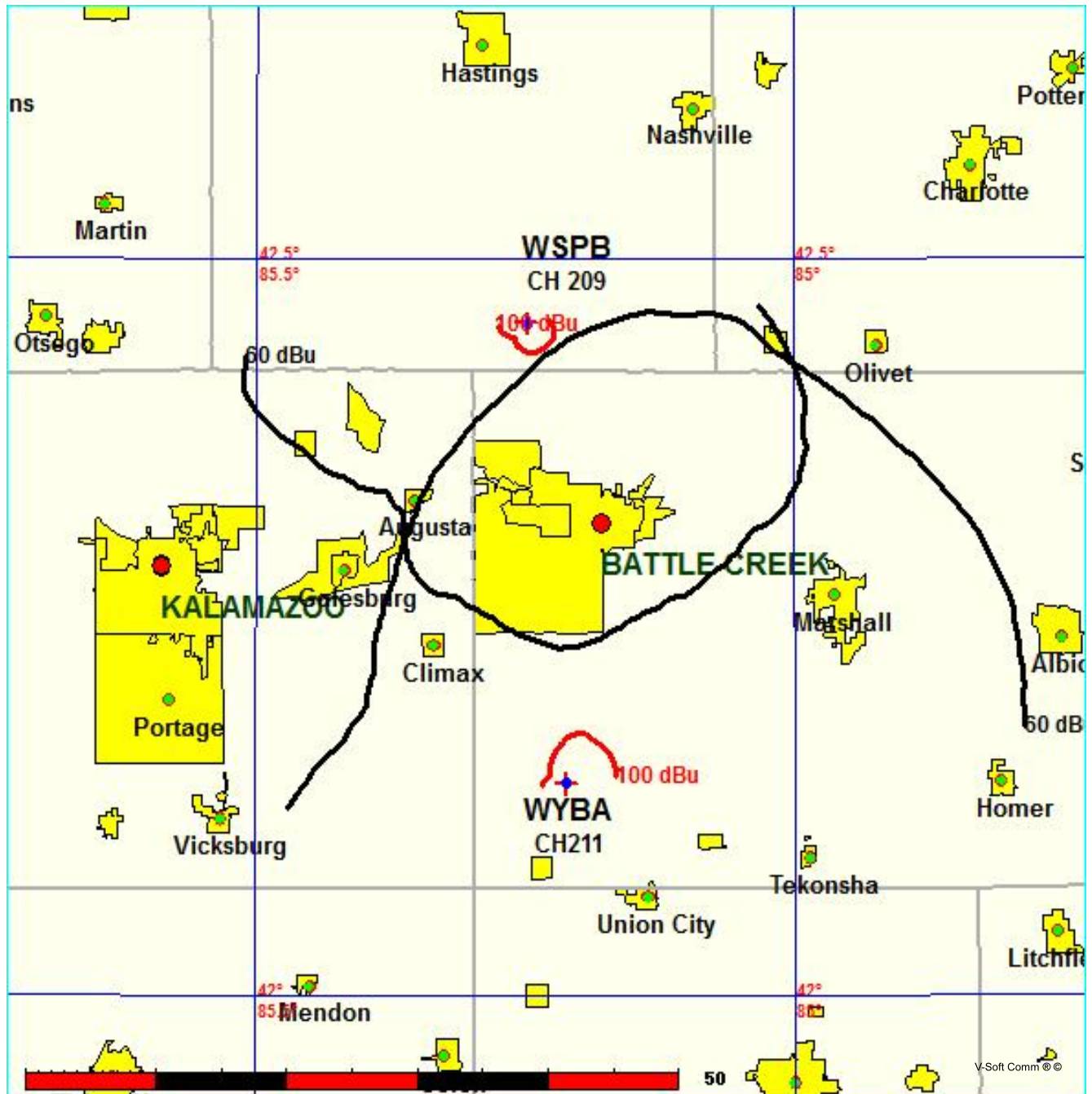


Exhibit 18.2 - Protection to WYBA(FM) - Coldwater, MI

01-21-2014

Terrain Data: USGS 03 SEC

FMOver Analysis

WSPB

WYBA BLED20111114AXC

Channel = 209A

Max ERP = 4.5 kW

RCAMSL = 354 M

N. Lat. 42 27 27.0

W. Lng. 85 14 53.0

Protected

60 dBu

Channel = 211B

Max ERP = 32 kW

RCAMSL = 359 M

N. Lat. 42 08 41.0

W. Lng. 85 12 34.0

Interfering

100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
115.0	003.9762	0081.3	023.4	035.9	032.0000	0073.0	030.7	64.23	
116.0	004.0784	0081.2	023.5	036.3	032.0000	0072.9	030.3	64.41	
117.0	004.1818	0080.8	023.6	036.6	032.0000	0072.8	030.0	64.60	
118.0	004.2866	0080.6	023.7	036.9	032.0000	0072.6	029.6	64.80	
119.0	004.3926	0080.8	023.9	037.3	032.0000	0072.5	029.2	65.00	
120.0	004.5000	0080.8	024.0	037.7	032.0000	0072.3	028.8	65.22	
121.0	004.5000	0080.9	024.0	037.8	032.0000	0072.3	028.4	65.46	
122.0	004.5000	0080.8	024.0	037.9	032.0000	0072.3	028.0	65.71	
123.0	004.5000	0081.0	024.0	038.0	032.0000	0072.3	027.5	65.97	
124.0	004.5000	0081.9	024.1	038.4	032.0000	0072.4	027.1	66.24	
125.0	004.5000	0082.1	024.2	038.5	032.0000	0072.4	026.7	66.51	
126.0	004.5000	0081.7	024.1	038.4	032.0000	0072.4	026.3	66.79	
127.0	004.5000	0081.4	024.1	038.4	032.0000	0072.4	025.9	67.08	
128.0	004.5000	0080.9	024.0	038.2	032.0000	0072.3	025.4	67.36	
129.0	004.5000	0080.3	023.9	038.0	032.0000	0072.3	025.0	67.65	
130.0	004.5000	0079.7	023.8	037.8	032.0000	0072.3	024.6	67.95	
131.0	004.5000	0078.0	023.6	037.2	032.0000	0072.5	024.2	68.26	
132.0	004.5000	0076.6	023.4	036.6	032.0000	0072.7	023.8	68.57	
133.0	004.5000	0076.1	023.3	036.4	032.0000	0072.9	023.4	68.89	
134.0	004.5000	0076.5	023.4	036.4	032.0000	0072.9	023.0	69.20	
135.0	004.5000	0077.3	023.5	036.5	032.0000	0072.8	022.6	69.51	
136.0	004.5000	0077.6	023.5	036.4	032.0000	0072.8	022.2	69.83	
137.0	004.5000	0078.4	023.6	036.5	032.0000	0072.8	021.8	70.15	
138.0	004.5000	0078.2	023.6	036.3	032.0000	0072.9	021.4	70.49	
139.0	004.5000	0078.4	023.6	036.1	032.0000	0073.0	020.9	70.82	
140.0	004.5000	0079.2	023.8	036.1	032.0000	0072.9	020.5	71.16	
141.0	004.5000	0079.1	023.7	035.8	032.0000	0073.0	020.1	71.49	
142.0	004.5000	0078.6	023.7	035.3	032.0000	0072.9	019.7	71.79	
143.0	004.5000	0078.6	023.7	034.9	032.0000	0072.8	019.3	72.10	
144.0	004.5000	0078.8	023.7	034.6	032.0000	0072.7	018.9	72.42	
145.0	004.5000	0079.5	023.8	034.4	032.0000	0072.7	018.5	72.77	
146.0	004.5000	0080.0	023.9	034.2	032.0000	0072.7	018.1	73.12	
147.0	004.5000	0080.2	023.9	033.7	032.0000	0072.7	017.7	73.46	
148.0	004.5000	0080.5	023.9	033.3	032.0000	0072.8	017.3	73.81	
149.0	004.5000	0080.3	023.9	032.7	032.0000	0072.9	016.9	74.14	
150.0	004.5000	0079.8	023.8	031.8	032.0000	0073.1	016.6	74.45	

Exhibit 18.2 - Protection to WYBA(FM) - Coldwater, MI

FMOver Analysis

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Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
151.0	004.5000	0078.9	023.7	030.7	032.0000	0073.3	016.3	74.73
152.0	004.5000	0078.4	023.6	029.7	032.0000	0073.4	016.0	75.01
153.0	004.5000	0078.2	023.6	028.8	032.0000	0073.5	015.7	75.31
154.0	004.5000	0078.8	023.7	028.2	032.0000	0073.5	015.3	75.65
155.0	004.5000	0079.2	023.8	027.4	032.0000	0073.6	014.9	75.81
156.0	004.5000	0079.3	023.8	026.4	032.0000	0074.1	014.6	76.25
157.0	004.5000	0079.5	023.8	025.4	032.0000	0074.7	014.2	76.72
158.0	004.5000	0079.5	023.8	024.3	032.0000	0075.6	013.9	77.20
159.0	004.5000	0079.5	023.8	023.1	032.0000	0077.0	013.6	77.74
160.0	004.5000	0079.9	023.9	022.0	032.0000	0078.6	013.3	78.35
161.0	004.5000	0080.2	023.9	020.7	032.0000	0079.4	013.0	78.86
162.0	004.5000	0081.0	024.0	019.6	032.0000	0079.4	012.7	79.35
163.0	004.5000	0082.0	024.1	018.4	032.0000	0079.0	012.3	79.84
164.0	004.5000	0082.2	024.2	016.8	032.0000	0078.4	012.0	80.17
165.0	004.5000	0083.1	024.3	015.4	032.0000	0076.4	011.7	80.45
166.0	004.5000	0084.5	024.5	014.0	032.0000	0075.1	011.3	80.90
167.0	004.5000	0085.4	024.6	012.4	032.0000	0074.7	011.0	81.36
168.0	004.5000	0086.0	024.7	010.5	032.0000	0074.4	010.8	81.74
169.0	004.5000	0086.2	024.7	008.3	032.0000	0074.2	010.6	82.02
170.0	004.5000	0086.6	024.8	006.2	032.0000	0073.6	010.4	82.27
171.0	004.4105	0087.5	024.8	003.9	032.0000	0073.2	010.3	82.41
172.0	004.3218	0088.0	024.7	001.5	032.0000	0072.7	010.3	82.43
173.0	004.2340	0089.0	024.8	359.1	032.0000	0072.2	010.2	82.49
174.0	004.1472	0089.8	024.8	356.7	032.0000	0072.2	010.2	82.54
175.0	004.0612	0089.8	024.6	354.2	032.0000	0071.1	010.3	82.23
176.0	003.9762	0089.1	024.4	351.9	032.0000	0070.2	010.5	81.73
177.0	003.8921	0088.9	024.3	349.7	032.0000	0070.0	010.7	81.39
178.0	003.8088	0088.9	024.2	347.6	032.0000	0069.8	010.9	81.07
179.0	003.7264	0088.8	024.0	345.6	032.0000	0069.8	011.1	80.71
180.0	003.6450	0088.3	023.8	343.8	032.0000	0069.9	011.4	80.26
181.0	003.5644	0088.0	023.7	342.1	032.0000	0069.6	011.7	79.78
182.0	003.4848	0087.6	023.5	340.5	032.0000	0069.2	012.0	79.26
183.0	003.4061	0087.1	023.3	339.0	032.0000	0069.5	012.3	78.79
184.0	003.3282	0086.7	023.2	337.7	032.0000	0069.3	012.6	78.28
185.0	003.2513	0085.7	022.9	336.6	032.0000	0069.2	013.0	77.68
186.0	003.1752	0084.5	022.6	335.7	032.0000	0069.1	013.5	77.07
187.0	003.1000	0084.3	022.5	334.6	032.0000	0068.7	013.8	76.57
188.0	003.0258	0084.4	022.4	333.5	032.0000	0068.3	014.1	76.13
189.0	002.9525	0084.4	022.2	332.6	032.0000	0068.2	014.4	75.71
190.0	002.8800	0084.5	022.1	331.6	032.0000	0068.0	014.8	75.31
191.0	002.8085	0084.4	022.0	330.9	032.0000	0067.7	015.1	75.11
192.0	002.7378	0084.8	021.9	330.0	031.9909	0066.8	015.4	74.72
193.0	002.6680	0084.8	021.8	329.3	031.4971	0066.0	015.8	74.25
194.0	002.5992	0084.4	021.6	328.8	031.1411	0065.6	016.2	73.82
195.0	002.5313	0084.6	021.5	328.1	030.7075	0065.5	016.5	73.43
196.0	002.4642	0086.1	021.5	327.2	030.0327	0065.2	016.8	73.09
197.0	002.3981	0087.9	021.6	326.1	029.3200	0065.1	017.0	72.77
198.0	002.3328	0088.9	021.6	325.4	028.8360	0064.8	017.3	72.40
199.0	002.2684	0090.5	021.6	324.5	028.2495	0064.3	017.6	72.02
200.0	002.2050	0091.3	021.6	324.0	027.8978	0064.1	017.9	71.64
201.0	002.1424	0091.7	021.5	323.6	027.6426	0064.0	018.3	71.28

Exhibit 18.2 - Protection to WYBA(FM) - Coldwater, MI

FMOver Analysis

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Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
202.0	002.0808	0091.6	021.3	323.4	027.5173	0063.9	018.7	70.91
203.0	002.0201	0091.0	021.1	323.4	027.5211	0063.9	019.1	70.55
204.0	001.9602	0090.8	020.9	323.3	027.4531	0063.9	019.5	70.20
205.0	001.9012	0090.2	020.7	323.4	027.5009	0063.9	020.0	69.85
206.0	001.8432	0089.3	020.4	323.5	027.6153	0064.0	020.4	69.52
207.0	001.7860	0088.0	020.1	323.9	027.8176	0064.1	020.9	69.19
208.0	001.7298	0086.0	019.7	324.4	028.1721	0064.3	021.4	68.88
209.0	001.6745	0084.5	019.4	324.8	028.4522	0064.5	021.8	68.59
210.0	001.6200	0081.3	018.8	325.7	029.0573	0064.9	022.4	68.32
211.0	001.5665	0078.2	018.3	326.6	029.6679	0065.1	022.9	68.02
212.0	001.5138	0075.7	017.8	327.4	030.1616	0065.3	023.4	67.74
213.0	001.4620	0073.9	017.4	327.9	030.5476	0065.4	023.8	67.47
214.0	001.4112	0073.0	017.1	328.2	030.7556	0065.5	024.2	67.23
215.0	001.3613	0075.0	017.2	327.8	030.4426	0065.4	024.5	66.99
216.0	001.3122	0076.2	017.2	327.5	030.2844	0065.3	024.7	66.76
217.0	001.2641	0076.8	017.1	327.5	030.2811	0065.3	025.1	66.53
218.0	001.2168	0077.2	017.0	327.6	030.3021	0065.3	025.4	66.31
219.0	001.1704	0077.9	016.9	327.5	030.2906	0065.3	025.7	66.09
220.0	001.1250	0078.1	016.7	327.7	030.3924	0065.4	026.0	65.89
221.0	001.1686	0078.6	016.9	327.0	029.9168	0065.1	026.2	65.65
222.0	001.2131	0079.4	017.2	326.2	029.4124	0065.1	026.4	65.43
223.0	001.2583	0079.0	017.3	325.8	029.1324	0065.0	026.7	65.19
224.0	001.3044	0079.2	017.5	325.3	028.7792	0064.7	027.0	64.94
225.0	001.3514	0079.4	017.7	324.8	028.4366	0064.5	027.2	64.68
226.0	001.3991	0079.7	017.9	324.3	028.0914	0064.2	027.5	64.42
227.0	001.4477	0079.0	018.0	324.0	027.9245	0064.1	027.8	64.20
228.0	001.4971	0078.5	018.1	323.7	027.7450	0064.0	028.1	63.97
229.0	001.5474	0077.3	018.1	323.7	027.7008	0064.0	028.4	63.78
230.0	001.5985	0077.1	018.2	323.4	027.4989	0063.9	028.7	63.55
231.0	001.6575	0077.6	018.5	322.9	027.1729	0063.9	029.0	63.32
232.0	001.7175	0077.9	018.7	322.4	026.8926	0063.9	029.4	63.08
233.0	001.7787	0077.9	018.9	322.1	026.6849	0063.8	029.7	62.86
234.0	001.8409	0078.4	019.1	321.7	026.4209	0063.9	030.0	62.64

Exhibit 18.2 - Protection to WYBA(FM) - Coldwater, MI

01-21-2014 Terrain Data: USGS 03 SEC FMOver Analysis

WYBA BLED20111114AXC

WSPB

Channel = 211B
Max ERP = 32 kW
RCAMSL = 359 M
N. Lat. 42 08 41.0
W. Lng. 85 12 34.0
Protected
60 dBu

Channel = 209A
Max ERP = 4.5 kW
RCAMSL = 354 M
N. Lat. 42 27 27.0
W. Lng. 85 14 53.0
Interfering
100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
295.0	001.3778	0071.7	016.9	203.6	001.9826	0090.6	030.2	54.38	
296.0	001.4031	0071.5	016.9	203.7	001.9772	0090.7	029.9	54.54	
297.0	001.4287	0071.3	017.0	203.8	001.9718	0090.7	029.6	54.70	
298.0	001.4545	0071.2	017.0	203.9	001.9659	0090.8	029.3	54.87	
299.0	001.4806	0071.1	017.1	204.0	001.9602	0090.8	029.0	55.03	
300.0	001.5068	0070.9	017.2	204.1	001.9566	0090.8	028.7	55.21	
301.0	001.5856	0070.5	017.4	204.4	001.9383	0090.8	028.4	55.36	
302.0	001.6664	0070.0	017.5	204.6	001.9223	0090.6	028.0	55.49	
303.0	001.7492	0069.6	017.7	204.9	001.9070	0090.2	027.7	55.63	
304.0	001.8340	0069.6	017.9	205.3	001.8850	0089.9	027.4	55.76	
305.0	001.9208	0069.5	018.1	205.6	001.8658	0089.7	027.0	55.91	
306.0	002.0096	0069.1	018.3	205.8	001.8522	0089.4	026.7	56.08	
307.0	002.1004	0068.7	018.5	206.1	001.8401	0089.2	026.3	56.26	
308.0	002.1933	0068.2	018.6	206.2	001.8314	0089.1	026.0	56.45	
309.0	002.2881	0067.3	018.7	206.2	001.8295	0089.0	025.7	56.67	
310.0	002.3849	0066.9	018.8	206.4	001.8220	0088.9	025.3	56.88	
311.0	002.5088	0066.4	019.0	206.6	001.8094	0088.7	024.9	57.08	
312.0	002.6358	0065.8	019.2	206.8	001.7996	0088.5	024.6	57.29	
313.0	002.7660	0065.4	019.3	207.0	001.7888	0088.1	024.2	57.50	
314.0	002.8992	0065.0	019.5	207.1	001.7791	0087.7	023.8	57.71	
315.0	003.0356	0064.6	019.7	207.3	001.7717	0087.4	023.5	57.93	
316.0	003.1752	0064.1	019.8	207.3	001.7667	0087.2	023.1	58.17	
317.0	003.3179	0063.7	020.0	207.4	001.7614	0087.0	022.7	58.42	
318.0	003.4637	0063.5	020.2	207.6	001.7544	0086.7	022.3	58.68	
319.0	003.6127	0063.4	020.4	207.7	001.7450	0086.5	021.9	58.94	
320.0	003.7648	0063.7	020.6	208.0	001.7317	0086.1	021.5	59.19	
321.0	003.9627	0063.8	020.9	208.3	001.7131	0085.7	021.1	59.45	
322.0	004.1657	0063.8	021.2	208.5	001.7002	0085.4	020.6	59.73	
323.0	004.3737	0063.9	021.4	208.8	001.6868	0085.0	020.2	60.00	
324.0	004.5868	0064.1	021.7	209.0	001.6723	0084.4	019.7	60.28	
325.0	004.8050	0064.6	022.0	209.4	001.6537	0083.5	019.2	60.52	
326.0	005.0283	0065.0	022.3	209.7	001.6364	0082.5	018.8	60.76	
327.0	005.2566	0065.1	022.5	209.8	001.6287	0081.9	018.3	61.06	

Exhibit 18.2 - Protection to WYBA(FM) - Coldwater, MI

FMOver Analysis

Page # 5

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
328.0	005.4900	0065.4	022.8	210.0	001.6193	0081.3	017.8	61.37
329.0	005.7284	0065.8	023.1	210.2	001.6097	0080.7	017.3	61.69
330.0	005.9720	0066.8	023.5	210.6	001.5861	0079.3	016.8	61.93
331.0	006.2856	0067.8	023.9	211.2	001.5554	0077.7	016.2	62.15
332.0	006.6073	0068.1	024.2	211.4	001.5429	0077.1	015.7	62.51
333.0	006.9371	0068.2	024.5	211.6	001.5367	0076.8	015.2	62.91
334.0	007.2748	0068.4	024.8	211.7	001.5317	0076.6	014.7	63.23
335.0	007.6206	0068.8	025.1	211.8	001.5240	0076.2	014.1	63.82
336.0	007.9744	0069.2	025.4	211.9	001.5204	0076.1	013.6	64.48
337.0	008.3363	0069.2	025.7	211.7	001.5287	0076.5	013.1	65.25
338.0	008.7061	0069.3	026.0	211.5	001.5412	0077.0	012.6	66.09
339.0	009.0840	0069.5	026.2	211.2	001.5549	0077.6	012.0	66.98
340.0	009.4700	0069.3	026.5	210.7	001.5835	0079.1	011.5	68.00
341.0	009.9672	0069.1	026.7	210.2	001.6114	0080.8	011.0	69.10
342.0	010.4772	0069.6	027.1	210.0	001.6176	0081.2	010.4	70.17
343.0	010.9999	0069.9	027.5	209.7	001.6375	0082.5	009.8	71.39
344.0	011.5354	0069.9	027.8	209.0	001.6758	0084.6	009.3	72.71
345.0	012.0835	0069.9	028.1	208.0	001.7280	0086.0	008.7	74.01
346.0	012.6444	0069.6	028.3	206.6	001.8073	0088.6	008.2	75.46
347.0	013.2180	0069.5	028.6	205.1	001.8981	0090.1	007.7	76.90
348.0	013.8044	0070.0	028.9	203.7	001.9790	0090.6	007.1	78.59
349.0	014.4034	0070.0	029.2	201.4	002.1150	0091.7	006.6	80.36
350.0	015.0152	0070.0	029.5	198.7	002.2857	0090.1	006.1	81.95
351.0	015.8012	0070.0	029.8	195.8	002.4791	0085.7	005.5	83.56
352.0	016.6072	0070.2	030.2	192.1	002.7341	0084.8	005.0	85.69
353.0	017.4333	0070.5	030.6	187.3	003.0785	0084.2	004.4	88.02
354.0	018.2795	0071.0	031.1	181.2	003.5520	0087.9	003.9	91.19
355.0	019.1457	0071.5	031.5	172.9	004.2446	0088.8	003.4	94.18
356.0	020.0319	0072.0	032.0	162.0	004.5000	0081.0	003.0	95.55
357.0	020.9382	0072.2	032.4	149.0	004.5000	0080.3	002.9	96.43
358.0	021.8646	0072.2	032.7	136.0	004.5000	0077.6	002.9	95.86
359.0	022.8110	0072.2	033.0	124.0	004.5000	0082.0	003.1	95.12
000.0	023.7774	0072.4	033.4	113.4	003.8204	0081.7	003.5	92.81
001.0	024.5448	0072.6	033.7	105.9	003.0751	0081.9	003.9	89.86
002.0	025.3244	0073.0	034.0	099.8	002.5110	0079.7	004.4	86.68
003.0	026.1162	0073.1	034.3	095.9	002.1355	0079.1	005.0	83.91
004.0	026.9202	0073.3	034.6	092.8	001.8538	0079.5	005.6	81.37
005.0	027.7364	0073.6	034.9	090.3	001.6415	0079.7	006.2	78.96
006.0	028.5647	0073.6	035.1	088.7	001.5512	0079.4	006.8	76.92
007.0	029.4052	0074.1	035.5	086.8	001.4512	0078.1	007.5	74.83
008.0	030.2580	0074.2	035.7	085.9	001.4083	0077.5	008.2	73.26
009.0	031.1229	0074.1	035.9	085.5	001.3841	0077.1	008.8	71.90
010.0	032.0000	0074.2	036.1	085.0	001.3612	0076.9	009.5	70.58
011.0	032.0000	0074.3	036.2	085.8	001.4029	0077.4	010.1	69.67
012.0	032.0000	0074.4	036.2	086.7	001.4450	0078.0	010.7	68.81
013.0	032.0000	0074.7	036.3	087.2	001.4700	0078.3	011.3	67.88
014.0	032.0000	0075.1	036.3	087.7	001.4958	0078.5	012.0	66.99
015.0	032.0000	0075.9	036.5	087.8	001.5015	0078.6	012.6	66.04
016.0	032.0000	0077.3	036.8	087.4	001.4840	0078.4	013.3	64.99
017.0	032.0000	0078.5	037.0	087.3	001.4789	0078.4	014.0	64.07
018.0	032.0000	0078.8	037.1	087.9	001.5096	0078.7	014.6	63.42

Exhibit 18.2 - Protection to WYBA(FM) - Coldwater, MI

FMOver Analysis

Page # 6

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
019.0	032.0000	0079.2	037.2	088.5	001.5391	0079.2	015.3	63.10
020.0	032.0000	0079.4	037.2	089.2	001.5778	0079.7	015.9	62.72
021.0	032.0000	0079.3	037.2	090.1	001.6255	0079.7	016.5	62.34
022.0	032.0000	0078.6	037.1	091.4	001.7316	0079.5	017.1	62.11
023.0	032.0000	0077.1	036.8	093.0	001.8743	0079.4	017.6	62.02
024.0	032.0000	0075.9	036.5	094.5	002.0019	0079.2	018.1	61.85
025.0	032.0000	0075.0	036.3	095.7	002.1163	0079.1	018.6	61.63
026.0	032.0000	0074.4	036.2	096.7	002.2096	0079.2	019.2	61.37
027.0	032.0000	0073.9	036.1	097.6	002.2987	0079.5	019.7	61.11
028.0	032.0000	0073.5	036.0	098.4	002.3760	0079.5	020.3	60.80
029.0	032.0000	0073.4	036.0	099.1	002.4432	0079.6	020.9	60.46
030.0	032.0000	0073.4	036.0	099.7	002.5004	0079.6	021.5	60.10
031.0	032.0000	0073.2	035.9	100.4	002.5626	0079.9	022.0	59.79
032.0	032.0000	0073.0	035.9	101.0	002.6220	0080.2	022.6	59.48
033.0	032.0000	0072.8	035.9	101.7	002.6805	0080.3	023.2	59.16
034.0	032.0000	0072.7	035.8	102.3	002.7375	0080.4	023.8	58.84
035.0	032.0000	0072.8	035.8	102.8	002.7842	0080.8	024.3	58.53
036.0	032.0000	0073.0	035.9	103.3	002.8278	0080.9	024.9	58.19
037.0	032.0000	0072.6	035.8	104.0	002.8976	0081.2	025.5	57.95
038.0	032.0000	0072.3	035.7	104.7	002.9589	0081.5	026.0	57.69
039.0	032.0000	0072.5	035.8	105.1	003.0014	0081.8	026.6	57.39
040.0	032.0000	0073.0	035.9	105.5	003.0359	0081.9	027.2	57.06
041.0	032.0000	0073.3	036.0	105.9	003.0753	0081.9	027.8	56.73
042.0	032.0000	0073.2	035.9	106.5	003.1335	0081.6	028.4	56.44
043.0	032.0000	0072.9	035.9	107.1	003.1961	0081.3	028.9	56.16
044.0	032.0000	0073.0	035.9	107.7	003.2490	0080.6	029.5	55.84
045.0	032.0000	0073.1	035.9	108.2	003.2981	0080.1	030.1	55.53
046.0	032.0000	0073.4	036.0	108.6	003.3394	0079.7	030.7	55.22
047.0	032.0000	0073.9	036.1	109.0	003.3796	0079.4	031.3	54.94
048.0	032.0000	0073.9	036.1	109.5	003.4332	0079.3	031.8	54.72
049.0	032.0000	0074.0	036.1	110.0	003.4858	0079.4	032.4	54.53
050.0	032.0000	0074.2	036.1	110.5	003.5308	0079.6	032.9	54.36
051.0	032.0000	0074.3	036.2	111.0	003.5787	0079.5	033.5	54.14
052.0	032.0000	0074.6	036.2	111.4	003.6233	0079.1	034.1	53.90
053.0	032.0000	0074.7	036.2	112.0	003.6728	0079.4	034.6	53.74
054.0	032.0000	0075.0	036.3	112.4	003.7170	0080.2	035.2	53.62

Exhibit 18.3

WSPB - Bedford, MI
Holy Family Radio, Inc.

Protection to WKDS (FM) - Kalamazoo, MI

FMCommander Single Allocation Study - 01-21-2014 - USGS 03 SEC
WSPB's Overlaps (In= 7.18 km, Out= 1.82 km)

WSPB CH 209 A DA
Lat= 42 27 27.0, Lng= 85 14 53.0
4.5 kW 74.6 M HAAT, 354 M COR
Prot.= 60 dBu, Intef.= 54 dBu

WKDS CH 210 A BLED19830204AK
Lat= 42 14 36.0, Lng= 85 34 19.0
0.14 kW 38 M HAAT, 303 M COR
Prot.= 60 dBu, Intef.= 54 dBu

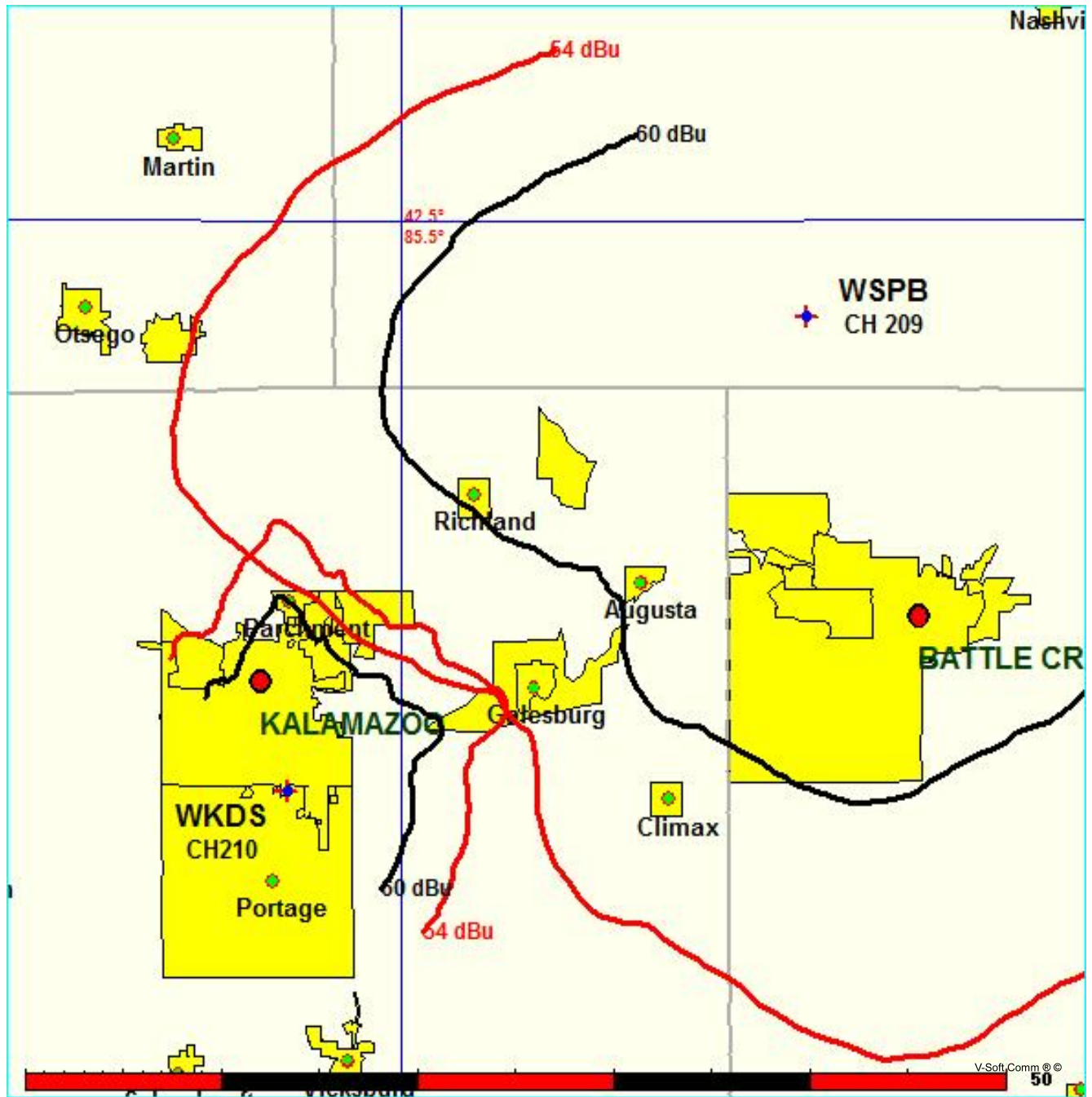


Exhibit 18.3 - Protection to WKDS (FM) - Kalamazoo, MI

01-21-2014 Terrain Data: USGS 03 SEC FMOver Analysis

WSPB

WKDS BLED19830204AK

Channel = 209A
Max ERP = 4.5 kW
RCAMSL = 354 M
N. Lat. 42 27 27.0
W. Lng. 85 14 53.0
Protected
60 dBu

Channel = 210A
Max ERP = 0.14 kW
RCAMSL = 303 M
N. Lat. 42 14 36.0
W. Lng. 85 34 19.0
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
168.0	004.5000	0086.0	024.7	090.5	000.1400	0034.4	031.8	33.90	
169.0	004.5000	0086.2	024.7	090.7	000.1400	0034.4	031.4	34.06	
170.0	004.5000	0086.6	024.8	091.0	000.1400	0034.2	031.0	34.21	
171.0	004.4105	0087.5	024.8	091.1	000.1400	0034.1	030.5	34.39	
172.0	004.3218	0088.0	024.7	091.2	000.1400	0034.1	030.1	34.59	
173.0	004.2340	0089.0	024.8	091.4	000.1400	0034.0	029.7	34.79	
174.0	004.1472	0089.8	024.8	091.5	000.1400	0034.0	029.3	35.00	
175.0	004.0612	0089.8	024.6	091.3	000.1400	0034.0	028.8	35.25	
176.0	003.9762	0089.1	024.4	091.0	000.1400	0034.2	028.4	35.53	
177.0	003.8921	0088.9	024.3	090.8	000.1400	0034.3	027.9	35.81	
178.0	003.8088	0088.9	024.2	090.6	000.1400	0034.4	027.5	36.08	
179.0	003.7264	0088.8	024.0	090.4	000.1400	0034.5	027.1	36.35	
180.0	003.6450	0088.3	023.8	090.0	000.1400	0034.4	026.7	36.59	
181.0	003.5644	0088.0	023.7	089.6	000.1400	0034.3	026.2	36.83	
182.0	003.4848	0087.6	023.5	089.2	000.1400	0034.1	025.8	37.05	
183.0	003.4061	0087.1	023.3	088.7	000.1400	0033.9	025.4	37.26	
184.0	003.3282	0086.7	023.2	088.3	000.1400	0033.7	025.1	37.48	
185.0	003.2513	0085.7	022.9	087.6	000.1400	0033.4	024.7	37.67	
186.0	003.1752	0084.5	022.6	086.8	000.1400	0033.3	024.3	37.88	
187.0	003.1000	0084.3	022.5	086.3	000.1400	0033.4	024.0	38.16	
188.0	003.0258	0084.4	022.4	085.8	000.1400	0033.5	023.6	38.44	
189.0	002.9525	0084.4	022.2	085.3	000.1400	0033.6	023.3	38.71	
190.0	002.8800	0084.5	022.1	084.8	000.1400	0033.7	022.9	38.98	
191.0	002.8085	0084.4	022.0	084.2	000.1400	0033.9	022.6	39.29	
192.0	002.7378	0084.8	021.9	083.7	000.1400	0034.1	022.2	39.58	
193.0	002.6680	0084.8	021.8	083.1	000.1400	0034.5	021.9	39.92	
194.0	002.5992	0084.4	021.6	082.3	000.1400	0035.2	021.6	40.32	
195.0	002.5313	0084.6	021.5	081.6	000.1400	0035.8	021.3	40.70	
196.0	002.4642	0086.1	021.5	081.3	000.1400	0036.2	021.0	41.07	
197.0	002.3981	0087.9	021.6	081.1	000.1400	0036.4	020.6	41.42	
198.0	002.3328	0088.9	021.6	080.6	000.1400	0036.7	020.3	41.76	
199.0	002.2684	0090.5	021.6	080.2	000.1400	0036.8	019.9	42.06	
200.0	002.2050	0091.3	021.6	079.5	000.1400	0036.9	019.6	42.33	
201.0	002.1424	0091.7	021.5	078.7	000.1400	0037.1	019.3	42.59	
202.0	002.0808	0091.6	021.3	077.7	000.1400	0038.1	019.1	43.01	
203.0	002.0201	0091.0	021.1	076.5	000.1400	0041.0	018.9	43.82	

Exhibit 18.3 - Protection to WKDS (FM) - Kalamazoo, MI

FMOver Analysis

Page # 2

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
204.0	001.9602	0090.8	020.9	075.4	000.1400	0044.7	018.7	44.79
205.0	001.9012	0090.2	020.7	074.2	000.1400	0049.7	018.6	45.91
206.0	001.8432	0089.3	020.4	072.8	000.1400	0053.1	018.5	46.61
207.0	001.7860	0088.0	020.1	071.4	000.1400	0055.6	018.5	47.05
208.0	001.7298	0086.0	019.7	069.7	000.1400	0056.6	018.5	47.16
209.0	001.6745	0084.5	019.4	068.3	000.1400	0056.9	018.6	47.18
210.0	001.6200	0081.3	018.8	066.4	000.1400	0057.1	018.8	47.01
211.0	001.5665	0078.2	018.3	064.6	000.1400	0055.0	019.0	46.46
212.0	001.5138	0075.7	017.8	063.1	000.1400	0052.5	019.3	45.85
213.0	001.4620	0073.9	017.4	061.7	000.1400	0051.5	019.5	45.52
214.0	001.4112	0073.0	017.1	060.5	000.1400	0050.7	019.6	45.28
215.0	001.3613	0075.0	017.2	059.9	000.1400	0050.1	019.4	45.34
216.0	001.3122	0076.2	017.2	059.0	000.1400	0049.2	019.3	45.27
217.0	001.2641	0076.8	017.1	058.1	000.1400	0047.9	019.3	45.03
218.0	001.2168	0077.2	017.0	057.1	000.1400	0047.0	019.3	44.83
219.0	001.1704	0077.9	016.9	056.2	000.1400	0046.1	019.3	44.64
220.0	001.1250	0078.1	016.7	055.2	000.1400	0044.7	019.3	44.30
221.0	001.1686	0078.6	016.9	054.6	000.1400	0044.2	019.0	44.44
222.0	001.2131	0079.4	017.2	053.9	000.1400	0043.7	018.7	44.61
223.0	001.2583	0079.0	017.3	053.0	000.1400	0042.8	018.5	44.58
224.0	001.3044	0079.2	017.5	052.2	000.1400	0042.0	018.3	44.58
225.0	001.3514	0079.4	017.7	051.3	000.1400	0041.6	018.0	44.70
226.0	001.3991	0079.7	017.9	050.4	000.1400	0041.4	017.8	44.85
227.0	001.4477	0079.0	018.0	049.4	000.1400	0041.8	017.7	45.01
228.0	001.4971	0078.5	018.1	048.4	000.1400	0042.3	017.6	45.23
229.0	001.5474	0077.3	018.1	047.3	000.1400	0043.6	017.6	45.51
230.0	001.5985	0077.1	018.2	046.3	000.1400	0044.3	017.5	45.77
231.0	001.6575	0077.6	018.5	045.2	000.1400	0045.1	017.3	46.12
232.0	001.7175	0077.9	018.7	044.0	000.1400	0046.6	017.1	46.59
233.0	001.7787	0077.9	018.9	042.8	000.1400	0046.5	017.0	46.66
234.0	001.8409	0078.4	019.1	041.6	000.1400	0045.5	016.8	46.58
235.0	001.9042	0078.1	019.2	040.4	000.1400	0045.0	016.8	46.53
236.0	001.9685	0077.4	019.3	039.2	000.1400	0043.3	016.8	46.15
237.0	002.0339	0076.7	019.4	038.0	000.1400	0042.0	016.8	45.82
238.0	002.1004	0076.1	019.4	036.9	000.1400	0040.9	016.9	45.53
239.0	002.1680	0075.7	019.5	035.7	000.1400	0039.6	016.9	45.22
240.0	002.2366	0075.0	019.6	034.5	000.1400	0038.4	017.0	44.85
241.0	002.3542	0074.4	019.8	033.2	000.1400	0037.2	017.0	44.57
242.0	002.4749	0074.3	020.0	031.8	000.1400	0038.2	017.0	44.84
243.0	002.5985	0074.1	020.2	030.4	000.1400	0039.4	016.9	45.13
244.0	002.7252	0073.8	020.4	029.1	000.1400	0039.6	017.0	45.15
245.0	002.8549	0073.5	020.6	027.7	000.1400	0039.5	017.0	45.07
246.0	002.9875	0073.1	020.8	026.4	000.1400	0039.6	017.1	45.02
247.0	003.1233	0072.9	021.0	025.1	000.1400	0040.2	017.2	45.10
248.0	003.2620	0072.2	021.1	023.9	000.1400	0040.4	017.4	44.99
249.0	003.4037	0071.8	021.3	022.6	000.1400	0040.6	017.5	44.93
250.0	003.5484	0071.9	021.5	021.3	000.1400	0041.6	017.6	45.04
251.0	003.6385	0072.1	021.6	020.1	000.1400	0042.3	017.8	45.05
252.0	003.7297	0072.0	021.8	019.1	000.1400	0042.6	018.1	44.92
253.0	003.8221	0072.2	021.9	018.0	000.1400	0043.0	018.3	44.81
254.0	003.9155	0072.2	022.0	017.0	000.1400	0043.9	018.5	44.82

Exhibit 18.3 - Protection to WKDS (FM) - Kalamazoo, MI

FMOver Analysis

Page # 3

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
255.0	004.0101	0072.2	022.2	016.0	000.1400	0046.0	018.8	45.04
256.0	004.1058	0071.7	022.2	015.3	000.1400	0048.6	019.1	45.30
257.0	004.2027	0070.7	022.2	014.8	000.1400	0049.6	019.4	45.20
258.0	004.3007	0069.4	022.1	014.4	000.1400	0049.5	019.8	44.87
259.0	004.3998	0068.1	022.1	014.1	000.1400	0049.0	020.2	44.47
260.0	004.5000	0067.1	022.0	013.8	000.1400	0048.4	020.5	44.06
261.0	004.4471	0066.5	021.9	013.7	000.1400	0048.3	021.0	43.71
262.0	004.3944	0066.3	021.8	013.5	000.1400	0047.8	021.3	43.30
263.0	004.3421	0066.2	021.7	013.4	000.1400	0047.3	021.7	42.89
264.0	004.2901	0066.1	021.6	013.2	000.1400	0047.1	022.1	42.56
265.0	004.2384	0065.9	021.5	013.1	000.1400	0047.0	022.5	42.24
266.0	004.1870	0065.5	021.4	013.1	000.1400	0047.0	022.9	41.94
267.0	004.1360	0065.1	021.3	013.2	000.1400	0047.0	023.3	41.65
268.0	004.0852	0064.8	021.2	013.1	000.1400	0047.0	023.7	41.36
269.0	004.0348	0064.8	021.1	013.1	000.1400	0047.0	024.0	41.07
270.0	003.9847	0064.8	021.1	013.0	000.1400	0046.9	024.4	40.80
271.0	003.8221	0064.8	020.9	013.3	000.1400	0047.2	024.8	40.56
272.0	003.6628	0064.8	020.7	013.6	000.1400	0047.9	025.2	40.43
273.0	003.5070	0064.8	020.4	013.9	000.1400	0048.7	025.6	40.30
274.0	003.3546	0064.6	020.2	014.3	000.1400	0049.3	026.0	40.14
275.0	003.2055	0064.6	020.0	014.7	000.1400	0049.6	026.4	39.93
276.0	003.0598	0064.2	019.7	015.1	000.1400	0049.1	026.8	39.60
277.0	002.9176	0063.7	019.4	015.7	000.1400	0047.2	027.2	38.99
278.0	002.7787	0063.3	019.1	016.2	000.1400	0045.5	027.5	38.43
279.0	002.6432	0063.3	018.8	016.6	000.1400	0044.6	027.9	38.03
280.0	002.5110	0063.7	018.6	016.9	000.1400	0044.1	028.2	37.72
281.0	002.4086	0064.2	018.5	017.1	000.1400	0043.8	028.6	37.48
282.0	002.3082	0065.3	018.5	017.1	000.1400	0043.8	028.9	37.28
283.0	002.2100	0065.7	018.3	017.3	000.1400	0043.5	029.2	37.04
284.0	002.1140	0066.0	018.1	017.6	000.1400	0043.3	029.6	36.82
285.0	002.0200	0065.9	017.9	018.0	000.1400	0042.9	029.9	36.58
286.0	001.9283	0065.6	017.6	018.5	000.1400	0042.6	030.2	36.35
287.0	001.8386	0065.7	017.4	018.9	000.1400	0042.6	030.5	36.19

Exhibit 18.3 - Protection to WKDS (FM) - Kalamazoo, MI

01-21-2014 Terrain Data: USGS 03 SEC FMOver Analysis

WKDS BLED19830204AK

WSPB

Channel = 210A
Max ERP = 0.14 kW
RCAMSL = 303 M
N. Lat. 42 14 36.0
W. Lng. 85 34 19.0
Protected
60 dBu

Channel = 209A
Max ERP = 4.5 kW
RCAMSL = 354 M
N. Lat. 42 27 27.0
W. Lng. 85 14 53.0
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
348.0	000.1400	0049.7	007.9	240.4	002.2874	0074.6	032.5	52.11	
349.0	000.1400	0051.9	008.1	240.7	002.3183	0074.5	032.3	52.24	
350.0	000.1400	0053.1	008.2	240.8	002.3298	0074.5	032.1	52.33	
351.0	000.1400	0054.0	008.3	240.9	002.3368	0074.4	032.0	52.42	
352.0	000.1400	0055.9	008.4	241.0	002.3577	0074.4	031.8	52.54	
353.0	000.1400	0057.6	008.6	241.2	002.3737	0074.4	031.6	52.66	
354.0	000.1400	0058.8	008.7	241.2	002.3803	0074.4	031.4	52.76	
355.0	000.1400	0060.7	008.8	241.3	002.3947	0074.4	031.2	52.88	
356.0	000.1400	0066.3	009.2	241.9	002.4566	0074.3	030.9	53.13	
357.0	000.1400	0072.0	009.6	242.4	002.5185	0074.2	030.6	53.38	
358.0	000.1400	0072.9	009.6	242.3	002.5146	0074.2	030.4	53.47	
359.0	000.1400	0072.4	009.6	242.1	002.4905	0074.2	030.3	53.50	
000.0	000.1400	0071.1	009.5	241.8	002.4551	0074.3	030.2	53.51	
001.0	000.1400	0069.4	009.4	241.5	002.4145	0074.4	030.1	53.49	
002.0	000.1400	0067.2	009.3	241.1	002.3674	0074.4	030.0	53.44	
003.0	000.1400	0065.6	009.1	240.8	002.3274	0074.5	030.0	53.42	
004.0	000.1400	0064.2	009.1	240.5	002.2895	0074.6	029.9	53.41	
005.0	000.1400	0062.1	008.9	240.1	002.2440	0074.9	029.8	53.39	
006.0	000.1400	0058.4	008.6	239.5	002.2009	0075.4	029.9	53.35	
007.0	000.1400	0054.4	008.3	238.8	002.1545	0075.8	029.9	53.25	
008.0	000.1400	0051.8	008.1	238.3	002.1195	0076.0	030.0	53.19	
009.0	000.1400	0049.7	007.9	237.8	002.0891	0076.2	030.0	53.13	
010.0	000.1400	0047.6	007.7	237.4	002.0600	0076.4	030.0	53.09	
011.0	000.1400	0047.2	007.7	237.2	002.0448	0076.6	030.0	53.11	
012.0	000.1400	0047.1	007.7	237.0	002.0321	0076.7	029.9	53.15	
013.0	000.1400	0046.9	007.6	236.8	002.0183	0076.9	029.8	53.18	
014.0	000.1400	0048.8	007.8	236.8	002.0211	0076.8	029.6	53.31	
015.0	000.1400	0049.4	007.9	236.7	002.0128	0076.9	029.4	53.37	
016.0	000.1400	0046.0	007.6	236.1	001.9737	0077.3	029.6	53.25	
017.0	000.1400	0043.9	007.4	235.7	001.9462	0077.7	029.6	53.19	
018.0	000.1400	0043.0	007.3	235.4	001.9271	0077.9	029.6	53.18	
019.0	000.1400	0042.6	007.2	235.1	001.9122	0078.1	029.6	53.19	
020.0	000.1400	0042.4	007.2	234.9	001.8981	0078.2	029.5	53.20	

Exhibit 18.3 - Protection to WKDS(FM) - Kalamazoo, MI

FMOver Analysis

Page # 5

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
021.0	000.1400	0041.8	007.2	234.6	001.8816	0078.3	029.5	53.19
022.0	000.1400	0041.2	007.1	234.4	001.8650	0078.4	029.5	53.18
023.0	000.1400	0040.5	007.1	234.1	001.8479	0078.4	029.5	53.15
024.0	000.1400	0040.4	007.0	233.9	001.8343	0078.3	029.4	53.14
025.0	000.1400	0040.3	007.0	233.7	001.8206	0078.2	029.4	53.12
026.0	000.1400	0039.8	007.0	233.4	001.8049	0078.1	029.4	53.08
027.0	000.1400	0039.4	007.0	233.2	001.7898	0078.0	029.3	53.05
028.0	000.1400	0039.6	007.0	233.0	001.7775	0077.9	029.3	53.05
029.0	000.1400	0039.6	007.0	232.8	001.7644	0077.9	029.2	53.05
030.0	000.1400	0039.5	007.0	232.5	001.7502	0078.0	029.2	53.04
031.0	000.1400	0039.0	006.9	232.3	001.7351	0078.0	029.2	53.01
032.0	000.1400	0038.0	006.8	232.0	001.7179	0077.9	029.2	52.93
033.0	000.1400	0037.2	006.8	231.7	001.7018	0077.8	029.2	52.86
034.0	000.1400	0037.8	006.8	231.6	001.6906	0077.8	029.1	52.89
035.0	000.1400	0038.7	006.9	231.4	001.6795	0077.8	029.0	52.91
036.0	000.1400	0040.1	007.0	231.2	001.6695	0077.7	028.9	52.97
037.0	000.1400	0041.0	007.1	231.0	001.6578	0077.6	028.8	52.99
038.0	000.1400	0041.9	007.2	230.8	001.6458	0077.5	028.7	53.01
039.0	000.1400	0043.0	007.3	230.6	001.6334	0077.4	028.5	53.03
040.0	000.1400	0044.8	007.4	230.4	001.6219	0077.3	028.4	53.11
041.0	000.1400	0045.2	007.5	230.2	001.6075	0077.2	028.3	53.09
042.0	000.1400	0045.8	007.5	229.9	001.5937	0077.1	028.2	53.08
043.0	000.1400	0046.6	007.6	229.7	001.5809	0077.0	028.1	53.09
044.0	000.1400	0046.7	007.6	229.4	001.5672	0077.1	028.1	53.07
045.0	000.1400	0045.3	007.5	229.1	001.5526	0077.2	028.2	52.98
046.0	000.1400	0044.5	007.4	228.8	001.5389	0077.5	028.3	52.93
047.0	000.1400	0043.8	007.4	228.6	001.5255	0077.8	028.4	52.90
048.0	000.1400	0042.9	007.3	228.3	001.5125	0078.2	028.4	52.86
049.0	000.1400	0042.0	007.2	228.1	001.4999	0078.5	028.5	52.80
050.0	000.1400	0041.5	007.2	227.8	001.4875	0078.6	028.6	52.76
051.0	000.1400	0041.5	007.1	227.6	001.4751	0078.8	028.6	52.73
052.0	000.1400	0041.9	007.2	227.3	001.4625	0078.9	028.5	52.72
053.0	000.1400	0042.8	007.3	227.0	001.4494	0079.0	028.5	52.74
054.0	000.1400	0043.8	007.3	226.8	001.4359	0079.2	028.4	52.76
055.0	000.1400	0044.6	007.4	226.5	001.4224	0079.4	028.4	52.77
056.0	000.1400	0045.7	007.5	226.2	001.4081	0079.6	028.3	52.81
057.0	000.1400	0046.9	007.6	225.9	001.3935	0079.7	028.2	52.81
058.0	000.1400	0047.9	007.7	225.6	001.3787	0079.6	028.1	52.80
059.0	000.1400	0049.2	007.8	225.2	001.3631	0079.5	028.0	52.79
060.0	000.1400	0050.2	007.9	224.9	001.3480	0079.4	028.0	52.76
061.0	000.1400	0051.1	008.0	224.6	001.3329	0079.3	028.0	52.73
062.0	000.1400	0051.7	008.1	224.3	001.3183	0079.3	027.9	52.70
063.0	000.1400	0052.4	008.1	224.0	001.3036	0079.2	027.9	52.64
064.0	000.1400	0053.7	008.3	223.6	001.2871	0079.0	027.9	52.60
065.0	000.1400	0055.7	008.4	223.2	001.2683	0079.0	027.8	52.60
066.0	000.1400	0057.0	008.5	222.8	001.2514	0079.3	027.7	52.60
067.0	000.1400	0057.0	008.5	222.6	001.2386	0079.4	027.8	52.54
068.0	000.1400	0056.9	008.5	222.3	001.2263	0079.6	027.8	52.47
069.0	000.1400	0056.8	008.5	222.0	001.2144	0079.5	027.9	52.37
070.0	000.1400	0056.4	008.5	221.8	001.2038	0079.3	028.0	52.25
071.0	000.1400	0056.0	008.5	221.6	001.1936	0079.1	028.1	52.13

Exhibit 18.3 - Protection to WKDS (FM) - Kalamazoo, MI

FMOver Analysis

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Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
072.0	000.1400	0054.6	008.3	221.4	001.1875	0079.0	028.3	51.98
073.0	000.1400	0052.8	008.2	221.3	001.1840	0078.9	028.5	51.83
074.0	000.1400	0050.2	007.9	221.4	001.1848	0078.9	028.8	51.68
075.0	000.1400	0046.2	007.6	221.5	001.1925	0079.1	029.2	51.50
076.0	000.1400	0042.4	007.2	221.7	001.1997	0079.2	029.5	51.34
077.0	000.1400	0039.9	007.0	221.8	001.2023	0079.3	029.8	51.21
078.0	000.1400	0037.4	006.8	221.8	001.2047	0079.3	030.0	51.09
079.0	000.1400	0037.0	006.7	221.7	001.1986	0079.2	030.1	51.00
080.0	000.1400	0036.8	006.7	221.5	001.1916	0079.1	030.2	50.91
081.0	000.1400	0036.5	006.7	221.4	001.1854	0078.9	030.3	50.83
082.0	000.1400	0035.4	006.6	221.3	001.1833	0078.9	030.5	50.73
083.0	000.1400	0034.5	006.5	221.3	001.1807	0078.8	030.6	50.64
084.0	000.1400	0034.0	006.5	221.2	001.1765	0078.8	030.7	50.56
085.0	000.1400	0033.6	006.4	221.1	001.1715	0078.7	030.8	50.48
086.0	000.1400	0033.5	006.4	220.9	001.1656	0078.6	030.9	50.40
087.0	000.1400	0033.3	006.4	220.8	001.1601	0078.5	031.0	50.33
088.0	000.1400	0033.6	006.4	220.6	001.1524	0078.3	031.0	50.25
089.0	000.1400	0034.0	006.5	220.4	001.1444	0078.2	031.1	50.17
090.0	000.1400	0034.4	006.5	220.3	001.1363	0078.1	031.2	50.09
091.0	000.1400	0034.2	006.5	220.2	001.1317	0078.1	031.3	50.02
092.0	000.1400	0033.9	006.5	220.1	001.1278	0078.1	031.4	49.96
093.0	000.1400	0034.2	006.5	219.9	001.1295	0078.1	031.4	49.93
094.0	000.1400	0034.6	006.5	219.7	001.1375	0078.1	031.5	49.93
095.0	000.1400	0034.9	006.6	219.6	001.1445	0078.2	031.6	49.92
096.0	000.1400	0035.0	006.6	219.4	001.1508	0078.1	031.7	49.90
097.0	000.1400	0035.2	006.6	219.3	001.1568	0078.1	031.8	49.88
098.0	000.1400	0035.2	006.6	219.2	001.1618	0078.1	031.9	49.85
099.0	000.1400	0035.2	006.6	219.1	001.1665	0078.0	032.0	49.81
100.0	000.1400	0035.3	006.6	219.0	001.1719	0077.9	032.1	49.78
101.0	000.1400	0035.4	006.6	218.9	001.1769	0077.8	032.2	49.74
102.0	000.1400	0035.7	006.6	218.7	001.1829	0077.8	032.3	49.71
103.0	000.1400	0036.1	006.7	218.6	001.1898	0077.8	032.3	49.69
104.0	000.1400	0036.3	006.7	218.5	001.1955	0077.7	032.4	49.66
105.0	000.1400	0036.3	006.7	218.4	001.1990	0077.6	032.5	49.62
106.0	000.1400	0036.4	006.7	218.3	001.2036	0077.5	032.7	49.58
107.0	000.1400	0036.5	006.7	218.2	001.2074	0077.4	032.8	49.53

Exhibit 18.4

WSPB - Bedford, MI
Holy Family Radio, Inc.

Protection to WCXG(FM) - Grand Rapids, MI

FMCommander Single Allocation Study - 01-21-2014 - USGS 03 SEC
WSPB's Overlaps (In= 3.28 km, Out= 10.8 km)

WSPB CH 209 A DA
Lat= 42 27 27.0, Lng= 85 14 53.0
4.5 kW 74.6 M HAAT, 354 M COR
Prot.= 60 dBu, Intef.= 40 dBu

WCXG-C CH 209 A DA BPED20110726AES
Lat= 42 58 40.0, Lng= 85 35 44.0
3.2 kW 74 M HAAT, 299 M COR
Prot.= 60 dBu, Intef.= 40 dBu

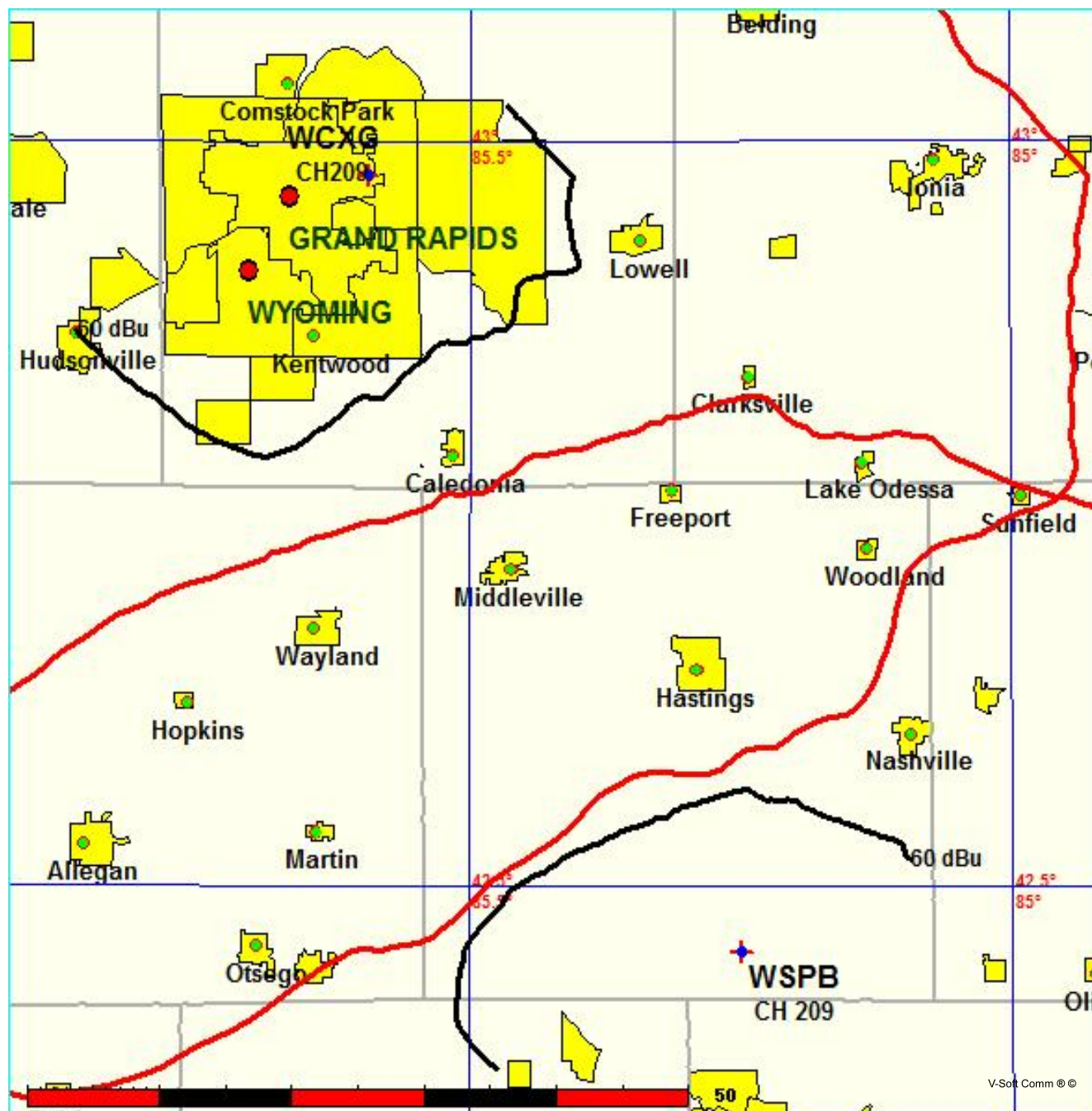


Exhibit 18.4 - Protection to WCXG(FM) - Grand Rapids, MI

01-21-2014

Terrain Data: USGS 03 SEC

FMOVer Analysis

WSPB

WCXG BPED20110726AES

Channel = 209A

Max ERP = 4.5 kW

RCAMSL = 354 M

N. Lat. 42 27 27.0

W. Lng. 85 14 53.0

Protected

60 dBu

Channel = 209A

Max ERP = 3.2 kW

RCAMSL = 299 M

N. Lat. 42 58 40.0

W. Lng. 85 35 44.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
274.0	003.3546	0064.6	020.2	171.6	001.0023	0074.6	057.1	39.26	
275.0	003.2055	0064.6	020.0	171.3	000.9887	0074.4	056.8	39.28	
276.0	003.0598	0064.2	019.7	170.9	000.9730	0074.1	056.5	39.28	
277.0	002.9176	0063.7	019.4	170.5	000.9554	0073.7	056.3	39.25	
278.0	002.7787	0063.3	019.1	170.1	000.9389	0073.3	056.0	39.22	
279.0	002.6432	0063.3	018.8	169.8	000.9312	0072.9	055.8	39.23	
280.0	002.5110	0063.7	018.6	169.5	000.9284	0072.6	055.6	39.27	
281.0	002.4086	0064.2	018.5	169.2	000.9261	0072.3	055.3	39.33	
282.0	002.3082	0065.3	018.5	169.1	000.9244	0072.2	055.0	39.40	
283.0	002.2100	0065.7	018.3	168.8	000.9219	0071.9	054.8	39.44	
284.0	002.1140	0066.0	018.1	168.5	000.9191	0071.5	054.6	39.47	
285.0	002.0200	0065.9	017.9	168.1	000.9157	0071.3	054.4	39.49	
286.0	001.9283	0065.6	017.6	167.7	000.9121	0071.0	054.2	39.50	
287.0	001.8386	0065.7	017.4	167.4	000.9088	0070.7	054.1	39.52	
288.0	001.7511	0065.1	017.1	166.9	000.9046	0070.3	054.0	39.50	
289.0	001.6657	0064.3	016.8	166.5	000.9003	0070.1	053.9	39.48	
290.0	001.5824	0063.8	016.5	166.0	000.8963	0069.8	053.8	39.47	
291.0	001.5180	0063.3	016.2	165.6	000.8926	0069.6	053.7	39.45	
292.0	001.4549	0063.0	016.0	165.2	000.8892	0069.4	053.6	39.45	
293.0	001.3931	0063.4	015.8	164.9	000.8865	0069.2	053.5	39.47	
294.0	001.3327	0063.4	015.6	164.6	000.8833	0069.1	053.4	39.47	
295.0	001.2736	0063.5	015.5	164.3	000.8803	0068.8	053.3	39.47	
296.0	001.2159	0063.8	015.3	163.9	000.8774	0068.6	053.2	39.47	
297.0	001.1595	0064.0	015.1	163.6	000.8745	0068.3	053.1	39.46	
298.0	001.1044	0064.4	015.0	163.3	000.8717	0068.1	053.0	39.45	
299.0	001.0507	0064.3	014.8	163.0	000.8685	0067.7	053.0	39.42	
300.0	000.9983	0064.2	014.6	162.6	000.8654	0067.4	053.0	39.38	
301.0	000.9576	0064.1	014.4	162.3	000.8625	0067.1	052.9	39.35	
302.0	000.9177	0063.9	014.3	162.0	000.8596	0066.8	052.9	39.33	
303.0	000.8787	0063.8	014.1	161.6	000.8567	0066.4	052.9	39.28	
304.0	000.8406	0063.3	013.9	161.3	000.8537	0066.0	052.9	39.23	
305.0	000.8033	0062.8	013.7	161.0	000.8507	0065.6	052.9	39.17	
306.0	000.7668	0063.0	013.6	160.7	000.8480	0065.3	052.8	39.14	
307.0	000.7312	0063.1	013.4	160.4	000.8454	0064.9	052.8	39.09	
308.0	000.6964	0063.5	013.3	160.1	000.8428	0064.5	052.8	39.05	
309.0	000.6625	0064.0	013.2	159.8	000.8432	0064.2	052.8	39.03	

Exhibit 18.4 - Protection to WCXG(FM) - Grand Rapids, MI

FMOver Analysis

Page # 2

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
310.0	000.6294	0065.3	013.1	159.6	000.8446	0063.8	052.7	39.03
311.0	000.6038	0064.9	013.0	159.3	000.8463	0063.4	052.7	38.99
312.0	000.5787	0065.2	012.9	159.0	000.8478	0063.2	052.7	38.98
313.0	000.5541	0066.1	012.8	158.7	000.8492	0062.9	052.7	38.98
314.0	000.5300	0066.7	012.7	158.5	000.8506	0062.7	052.6	38.98
315.0	000.5065	0066.7	012.6	158.2	000.8522	0062.5	052.7	38.95
316.0	000.4835	0067.5	012.5	158.0	000.8536	0062.3	052.7	38.95
317.0	000.4611	0068.1	012.4	157.7	000.8550	0062.1	052.7	38.93
318.0	000.4392	0069.1	012.4	157.5	000.8564	0062.0	052.6	38.93
319.0	000.4178	0069.2	012.2	157.2	000.8579	0061.8	052.7	38.91
320.0	000.3969	0069.3	012.1	156.9	000.8594	0061.6	052.8	38.88
321.0	000.3884	0069.2	012.0	156.7	000.8608	0061.5	052.8	38.87
322.0	000.3800	0068.9	012.0	156.4	000.8621	0061.4	052.8	38.86
323.0	000.3717	0068.8	011.9	156.2	000.8635	0061.3	052.8	38.85
324.0	000.3635	0068.9	011.8	156.0	000.8648	0061.2	052.8	38.85
325.0	000.3553	0069.7	011.8	155.7	000.8661	0061.1	052.8	38.86
326.0	000.3473	0071.2	011.9	155.5	000.8672	0061.1	052.7	38.89
327.0	000.3393	0071.5	011.8	155.3	000.8685	0061.1	052.7	38.89
328.0	000.3315	0070.4	011.7	155.1	000.8699	0061.0	052.8	38.85
329.0	000.3237	0070.0	011.6	154.8	000.8712	0061.0	052.9	38.84
330.0	000.3160	0069.4	011.5	154.6	000.8725	0061.1	053.0	38.82
331.0	000.3160	0069.7	011.5	154.4	000.8737	0061.2	053.0	38.85
332.0	000.3160	0069.8	011.5	154.2	000.8750	0061.3	052.9	38.87
333.0	000.3160	0070.5	011.6	154.0	000.8762	0061.5	052.9	38.92
334.0	000.3160	0070.9	011.6	153.7	000.8774	0061.7	052.9	38.95
335.0	000.3160	0071.3	011.6	153.5	000.8787	0062.0	052.8	38.99
336.0	000.3160	0072.2	011.7	153.3	000.8800	0062.3	052.8	39.05
337.0	000.3160	0072.2	011.7	153.1	000.8812	0062.7	052.8	39.08
338.0	000.3160	0071.5	011.6	152.9	000.8825	0063.0	052.8	39.10
339.0	000.3160	0070.6	011.6	152.6	000.8837	0063.4	052.9	39.11
340.0	000.3160	0070.4	011.5	152.4	000.8849	0063.9	053.0	39.15
341.0	000.3160	0070.0	011.5	152.2	000.8861	0064.3	053.0	39.18
342.0	000.3160	0069.5	011.5	152.0	000.8873	0064.6	053.1	39.19
343.0	000.3160	0069.4	011.5	151.8	000.8885	0065.0	053.1	39.22
344.0	000.3160	0070.0	011.5	151.6	000.8898	0065.2	053.1	39.24
345.0	000.3160	0069.7	011.5	151.4	000.8910	0065.4	053.2	39.25
346.0	000.3160	0069.9	011.5	151.2	000.8922	0065.8	053.2	39.28
347.0	000.3160	0070.1	011.5	151.0	000.8934	0066.1	053.3	39.30
348.0	000.3160	0069.9	011.5	150.7	000.8946	0066.4	053.3	39.31
349.0	000.3160	0070.6	011.6	150.5	000.8959	0066.9	053.4	39.36
350.0	000.3160	0071.5	011.6	150.3	000.8972	0067.3	053.4	39.40
351.0	000.3160	0071.1	011.6	150.1	000.8983	0067.5	053.5	39.39
352.0	000.3160	0072.6	011.7	149.9	000.8989	0067.7	053.4	39.42
353.0	000.3160	0072.1	011.7	149.7	000.8989	0067.9	053.5	39.40
354.0	000.3160	0072.0	011.7	149.5	000.8989	0068.0	053.6	39.38
355.0	000.3160	0073.1	011.7	149.2	000.8989	0068.0	053.6	39.37
356.0	000.3160	0073.8	011.8	149.0	000.8989	0067.9	053.7	39.35
357.0	000.3160	0074.6	011.8	148.8	000.8989	0067.9	053.7	39.34
358.0	000.3160	0075.3	011.9	148.6	000.8989	0067.9	053.8	39.32
359.0	000.3160	0075.6	011.9	148.4	000.8989	0067.9	053.9	39.29
000.0	000.3160	0075.9	011.9	148.2	000.8989	0067.9	054.0	39.26

Exhibit 18.4 - Protection to WCXG (FM) - Grand Rapids, MI

FMOver Analysis

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Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
001.0	000.3160	0076.4	012.0	148.0	000.8989	0067.8	054.0	39.23
002.0	000.3160	0077.0	012.0	147.8	000.8989	0067.7	054.1	39.19
003.0	000.3160	0075.7	011.9	147.6	000.8989	0067.6	054.3	39.12
004.0	000.3160	0072.7	011.7	147.6	000.8989	0067.6	054.6	39.02
005.0	000.3160	0070.9	011.6	147.5	000.8989	0067.5	054.8	38.94
006.0	000.3160	0069.8	011.5	147.4	000.8989	0067.4	055.0	38.87
007.0	000.3160	0069.2	011.5	147.2	000.8989	0067.3	055.2	38.81
008.0	000.3160	0067.8	011.4	147.2	000.8989	0067.3	055.4	38.73
009.0	000.3160	0067.6	011.3	147.0	000.8989	0067.2	055.5	38.68
010.0	000.3160	0067.9	011.4	146.8	000.8989	0067.1	055.6	38.63
011.0	000.3160	0068.8	011.4	146.6	000.8989	0067.1	055.7	38.60
012.0	000.3160	0068.7	011.4	146.5	000.8989	0067.1	055.9	38.56
013.0	000.3160	0069.0	011.4	146.4	000.8989	0067.2	056.0	38.52
014.0	000.3160	0069.4	011.5	146.2	000.8989	0067.3	056.1	38.49
015.0	000.3160	0070.5	011.6	146.0	000.8989	0067.5	056.2	38.47
016.0	000.3160	0072.0	011.7	145.8	000.8989	0067.8	056.3	38.48
017.0	000.3160	0073.4	011.8	145.6	000.8989	0068.1	056.4	38.47
018.0	000.3160	0073.5	011.8	145.4	000.8989	0068.3	056.6	38.44
019.0	000.3160	0073.8	011.8	145.3	000.8989	0068.5	056.7	38.41
020.0	000.3160	0074.3	011.8	145.1	000.8989	0068.8	056.9	38.38
021.0	000.3237	0073.2	011.8	145.0	000.8989	0069.1	057.0	38.34
022.0	000.3315	0070.6	011.7	145.0	000.8989	0069.1	057.3	38.27
023.0	000.3393	0069.2	011.7	144.9	000.8989	0069.3	057.5	38.22
024.0	000.3473	0068.1	011.6	144.8	000.8989	0069.5	057.7	38.18
025.0	000.3553	0067.3	011.6	144.7	000.8989	0069.7	057.8	38.14
026.0	000.3635	0066.6	011.6	144.6	000.8989	0069.9	058.0	38.10
027.0	000.3717	0065.7	011.6	144.5	000.8989	0070.2	058.2	38.06
028.0	000.3800	0065.1	011.7	144.4	000.8989	0070.4	058.4	38.03
029.0	000.3884	0064.5	011.7	144.3	000.8989	0070.7	058.5	37.99
030.0	000.3969	0064.0	011.7	144.2	000.8989	0070.9	058.7	37.95
031.0	000.4069	0063.5	011.7	144.1	000.8989	0071.1	058.9	37.91
032.0	000.4170	0063.1	011.8	144.0	000.8989	0071.2	059.1	37.87
033.0	000.4272	0062.9	011.8	143.9	000.8989	0071.4	059.2	37.83

Exhibit 18.4 - Protection to WCXG(FM) - Grand Rapids, MI

01-21-2014 Terrain Data: USGS 03 SEC FMOver Analysis

WCXG BPED20110726AES

WSPB

Channel = 209A
Max ERP = 3.2 kW
RCAMSL = 299 M
N. Lat. 42 58 40.0
W. Lng. 85 35 44.0
Protected
60 dBu

Channel = 209A
Max ERP = 4.5 kW
RCAMSL = 354 M
N. Lat. 42 27 27.0
W. Lng. 85 14 53.0
Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
094.0	000.9680	0072.1	015.3	347.1	000.3160	0070.1	058.2	33.50	
095.0	000.9680	0071.9	015.3	347.0	000.3160	0070.1	058.0	33.58	
096.0	000.9680	0072.9	015.4	347.0	000.3160	0070.1	057.7	33.67	
097.0	000.9680	0072.7	015.4	346.9	000.3160	0070.0	057.5	33.75	
098.0	000.9680	0071.3	015.2	346.7	000.3160	0070.0	057.3	33.81	
099.0	000.9680	0072.1	015.3	346.7	000.3160	0070.0	057.0	33.91	
100.0	000.9680	0073.0	015.4	346.6	000.3160	0070.1	056.7	34.00	
101.0	000.9680	0072.9	015.4	346.5	000.3160	0070.1	056.5	34.08	
102.0	000.9680	0073.2	015.4	346.4	000.3160	0070.1	056.2	34.16	
103.0	000.9680	0074.6	015.6	346.5	000.3160	0070.1	055.9	34.27	
104.0	000.9680	0076.3	015.8	346.5	000.3160	0070.1	055.6	34.38	
105.0	000.9680	0078.1	016.0	346.6	000.3160	0070.1	055.2	34.49	
106.0	000.9680	0078.4	016.0	346.4	000.3160	0070.1	055.0	34.58	
107.0	000.9680	0079.2	016.1	346.4	000.3160	0070.0	054.7	34.68	
108.0	000.9680	0081.4	016.4	346.5	000.3160	0070.1	054.3	34.80	
109.0	000.9680	0082.4	016.5	346.4	000.3160	0070.1	054.0	34.90	
110.0	000.9680	0083.8	016.7	346.4	000.3160	0070.0	053.6	35.01	
111.0	000.9680	0086.5	017.0	346.5	000.3160	0070.1	053.2	35.16	
112.0	000.9680	0089.1	017.3	346.6	000.3160	0070.1	052.8	35.30	
113.0	000.9680	0090.2	017.4	346.5	000.3160	0070.1	052.5	35.41	
114.0	000.9680	0089.5	017.3	346.2	000.3160	0070.0	052.3	35.46	
115.0	000.9680	0086.8	017.0	345.7	000.3160	0069.8	052.3	35.46	
116.0	000.9680	0082.8	016.5	345.1	000.3160	0069.7	052.3	35.43	
117.0	000.9680	0078.2	016.0	344.5	000.3160	0069.9	052.5	35.40	
118.0	000.9680	0075.0	015.6	344.0	000.3160	0070.0	052.5	35.38	
119.0	000.9680	0073.2	015.4	343.6	000.3160	0069.8	052.5	35.38	
120.0	000.9680	0070.8	015.2	343.2	000.3160	0069.6	052.5	35.36	
121.0	000.9610	0067.5	014.8	342.7	000.3160	0069.2	052.6	35.29	
122.0	000.9540	0064.5	014.5	342.3	000.3160	0069.3	052.7	35.27	
123.0	000.9470	0063.2	014.3	342.0	000.3160	0069.5	052.7	35.30	
124.0	000.9400	0062.6	014.2	341.7	000.3160	0069.7	052.6	35.35	
125.0	000.9331	0061.9	014.1	341.4	000.3160	0069.9	052.5	35.39	
126.0	000.9262	0062.0	014.1	341.2	000.3160	0070.0	052.4	35.44	

Exhibit 18.4 - Protection to WCXG(FM) - Grand Rapids, MI

FMOver Analysis

Page # 5

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
127.0	000.9193	0063.3	014.2	341.0	000.3160	0070.0	052.1	35.52
128.0	000.9125	0064.9	014.3	340.9	000.3160	0070.1	051.9	35.61
129.0	000.9057	0066.8	014.5	340.7	000.3160	0070.2	051.6	35.71
130.0	000.8989	0069.0	014.7	340.6	000.3160	0070.3	051.3	35.82
131.0	000.8989	0070.6	014.9	340.4	000.3160	0070.3	051.0	35.92
132.0	000.8989	0072.1	015.0	340.3	000.3160	0070.4	050.8	36.01
133.0	000.8989	0073.5	015.2	340.1	000.3160	0070.4	050.5	36.10
134.0	000.8989	0075.3	015.4	339.9	000.3160	0070.4	050.2	36.19
135.0	000.8989	0076.5	015.5	339.7	000.3160	0070.4	050.0	36.27
136.0	000.8989	0077.5	015.6	339.5	000.3160	0070.3	049.8	36.34
137.0	000.8989	0077.7	015.6	339.2	000.3160	0070.5	049.7	36.39
138.0	000.8989	0076.9	015.5	338.8	000.3160	0070.6	049.7	36.41
139.0	000.8989	0074.8	015.3	338.5	000.3160	0070.8	049.8	36.39
140.0	000.8989	0073.2	015.1	338.1	000.3160	0071.3	049.9	36.41
141.0	000.8989	0072.0	015.0	337.8	000.3160	0071.6	049.9	36.43
142.0	000.8989	0071.4	014.9	337.5	000.3160	0071.8	049.9	36.44
143.0	000.8989	0071.3	014.9	337.2	000.3160	0072.1	049.8	36.49
144.0	000.8989	0071.3	014.9	336.9	000.3160	0072.2	049.8	36.52
145.0	000.8989	0069.1	014.7	336.5	000.3160	0072.3	049.9	36.48
146.0	000.8989	0067.5	014.5	336.2	000.3160	0072.3	050.1	36.44
147.0	000.8989	0067.2	014.5	335.9	000.3160	0072.1	050.1	36.42
148.0	000.8989	0067.8	014.6	335.7	000.3160	0071.8	049.9	36.42
149.0	000.8989	0067.9	014.6	335.4	000.3160	0071.6	049.9	36.42
150.0	000.8989	0067.6	014.6	335.1	000.3160	0071.3	049.9	36.39
151.0	000.8931	0066.1	014.4	334.8	000.3160	0071.2	050.1	36.32
152.0	000.8874	0064.7	014.2	334.5	000.3160	0071.0	050.2	36.26
153.0	000.8817	0062.8	014.0	334.2	000.3160	0071.0	050.4	36.18
154.0	000.8760	0061.5	013.9	333.9	000.3160	0070.8	050.6	36.12
155.0	000.8703	0061.0	013.8	333.6	000.3160	0070.8	050.6	36.10
156.0	000.8646	0061.2	013.8	333.4	000.3160	0070.8	050.7	36.10
157.0	000.8590	0061.7	013.8	333.1	000.3160	0070.6	050.6	36.08
158.0	000.8533	0062.3	013.9	332.8	000.3160	0070.4	050.6	36.06
159.0	000.8477	0063.2	013.9	332.5	000.3160	0070.1	050.6	36.04
160.0	000.8421	0064.4	014.0	332.2	000.3160	0069.8	050.5	36.04
161.0	000.8510	0065.6	014.2	331.9	000.3160	0069.8	050.4	36.08
162.0	000.8600	0066.9	014.3	331.6	000.3160	0069.9	050.3	36.13
163.0	000.8689	0067.8	014.5	331.3	000.3160	0069.8	050.2	36.14
164.0	000.8780	0068.7	014.6	331.0	000.3160	0069.7	050.2	36.16
165.0	000.8870	0069.2	014.7	330.7	000.3160	0069.7	050.1	36.17
166.0	000.8962	0069.8	014.8	330.4	000.3160	0069.5	050.1	36.15
167.0	000.9053	0070.4	014.9	330.1	000.3160	0069.4	050.1	36.16
168.0	000.9146	0071.1	015.0	329.8	000.3179	0069.6	050.0	36.21
169.0	000.9238	0072.1	015.1	329.4	000.3205	0069.9	050.0	36.29
170.0	000.9331	0073.2	015.3	329.1	000.3232	0070.0	049.9	36.35
171.0	000.9768	0074.2	015.6	328.6	000.3264	0070.1	049.8	36.47
172.0	001.0215	0074.8	015.9	328.2	000.3296	0070.2	049.6	36.56
173.0	001.0672	0075.4	016.1	327.8	000.3329	0070.5	049.5	36.68
174.0	001.1139	0075.7	016.4	327.4	000.3362	0071.0	049.4	36.80
175.0	001.1616	0075.9	016.6	327.0	000.3394	0071.5	049.4	36.91
176.0	001.2103	0075.1	016.7	326.6	000.3422	0071.6	049.4	36.93
177.0	001.2600	0073.5	016.7	326.4	000.3444	0071.5	049.6	36.90

Exhibit 18.4 - Protection to WCXG(FM) - Grand Rapids, MI

FMOver Analysis

Page # 6

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
178.0	001.3107	0071.7	016.6	326.1	000.3465	0071.3	049.8	36.85
179.0	001.3624	0070.4	016.6	325.8	000.3489	0071.0	049.9	36.80
180.0	001.4151	0068.0	016.5	325.6	000.3504	0070.7	050.2	36.70
181.0	001.4871	0066.1	016.5	325.4	000.3525	0070.2	050.3	36.62
182.0	001.5608	0065.6	016.6	325.0	000.3554	0069.7	050.4	36.58
183.0	001.6364	0065.3	016.8	324.6	000.3586	0069.2	050.4	36.57
184.0	001.7137	0065.9	017.1	324.1	000.3625	0068.9	050.4	36.60
185.0	001.7928	0067.1	017.5	323.6	000.3669	0069.0	050.3	36.69
186.0	001.8737	0068.4	017.9	323.0	000.3715	0068.8	050.2	36.75
187.0	001.9564	0069.8	018.3	322.5	000.3761	0068.9	050.2	36.83
188.0	002.0408	0071.0	018.6	321.9	000.3808	0069.0	050.1	36.90
189.0	002.1271	0071.9	018.9	321.4	000.3852	0069.0	050.2	36.95
190.0	002.2151	0072.5	019.2	320.9	000.3893	0069.2	050.2	36.99
191.0	002.3055	0073.2	019.5	320.4	000.3935	0069.3	050.3	37.02
192.0	002.3976	0074.7	019.9	319.8	000.4009	0069.3	050.3	37.09
193.0	002.4916	0076.6	020.3	319.2	000.4143	0069.3	050.4	37.23
194.0	002.5874	0078.1	020.7	318.6	000.4268	0069.1	050.4	37.32
195.0	002.6850	0079.0	021.0	318.1	000.4379	0069.1	050.6	37.38
196.0	002.7844	0079.7	021.3	317.6	000.4486	0068.7	050.7	37.39
197.0	002.8856	0080.1	021.6	317.1	000.4584	0068.1	050.9	37.37
198.0	002.9886	0080.6	021.8	316.7	000.4682	0067.9	051.1	37.36
199.0	003.0934	0081.4	022.1	316.2	000.4790	0067.6	051.3	37.37
200.0	003.2000	0082.3	022.4	315.7	000.4899	0067.2	051.6	37.36
201.0	003.2000	0083.1	022.5	315.4	000.4966	0067.0	051.9	37.29
202.0	003.2000	0083.7	022.6	315.2	000.5026	0066.8	052.2	37.21
203.0	003.2000	0084.4	022.6	314.9	000.5083	0066.7	052.5	37.14
204.0	003.2000	0084.5	022.7	314.7	000.5124	0066.6	052.9	37.06
205.0	003.2000	0084.5	022.7	314.6	000.5157	0066.6	053.3	36.96
206.0	003.2000	0084.5	022.7	314.5	000.5191	0066.6	053.6	36.86
207.0	003.2000	0084.9	022.7	314.3	000.5233	0066.6	054.0	36.78
208.0	003.2000	0085.4	022.8	314.1	000.5275	0066.7	054.4	36.70
209.0	003.2000	0085.8	022.8	313.9	000.5315	0066.7	054.7	36.61
210.0	003.2000	0086.0	022.9	313.8	000.5345	0066.6	055.1	36.50
211.0	003.2000	0086.2	022.9	313.7	000.5372	0066.5	055.5	36.39
212.0	003.2000	0086.5	022.9	313.6	000.5402	0066.4	055.9	36.29
213.0	003.2000	0087.0	023.0	313.4	000.5437	0066.4	056.3	36.18

Exhibit 18.5

WSPB - Bedford, MI
Holy Family Radio, Inc.

Protection to WLNZ (FM) - Lansing, MI

FMCommander Single Allocation Study - 01-21-2014 - USGS 03 SEC
WSPB's Overlaps (In= 14.89 km, Out= 4.07 km)

WSPB CH 209 A DA
Lat= 42 27 27.0, Lng= 85 14 53.0
4.5 kW 74.6 M HAAT, 354 M COR
Prot.= 60 dBu, Intef.= 40 dBu

WLNZ CH 209 A DA BLED20131127BHJ
Lat= 42 44 15.0, Lng= 84 33 12.0
1.0 kW 33.3 M HAAT, 293 M COR
Prot.= 60 dBu, Intef.= 40 dBu

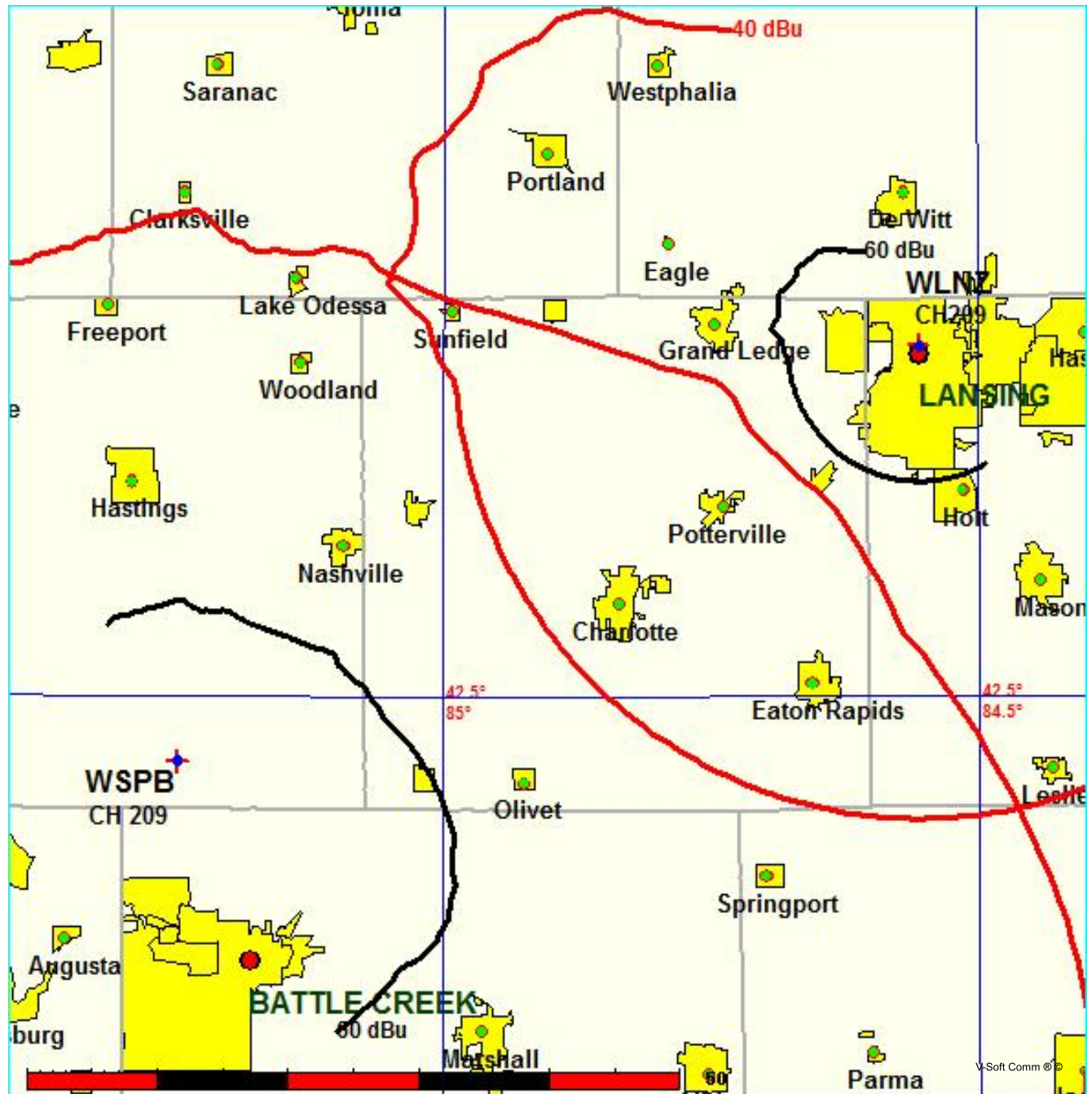


Exhibit 18.5 - Protection to WLNZ(FM) - Lansing, MI

01-21-2014

Terrain Data: USGS 03 SEC

FMOver Analysis

WSPB

WLNZ BLED20131127BHJ

Channel = 209A
Max ERP = 4.5 kW
RCAMSL = 354 M
N. Lat. 42 27 27.0
W. Lng. 85 14 53.0
Protected
60 dBu

Channel = 209A
Max ERP = 1 kW
RCAMSL = 293 M
N. Lat. 42 44 15.0
W. Lng. 84 33 12.0
Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
001.0	000.3160	0076.4	012.0	251.5	000.0343	0029.1	059.8	19.20	
002.0	000.3160	0077.0	012.0	251.5	000.0342	0029.1	059.5	19.24	
003.0	000.3160	0075.7	011.9	251.4	000.0339	0029.1	059.4	19.24	
004.0	000.3160	0072.7	011.7	251.1	000.0335	0029.2	059.3	19.20	
005.0	000.3160	0070.9	011.6	250.9	000.0332	0029.2	059.1	19.19	
006.0	000.3160	0069.8	011.5	250.7	000.0329	0029.3	059.0	19.19	
007.0	000.3160	0069.2	011.5	250.6	000.0327	0029.3	058.8	19.19	
008.0	000.3160	0067.8	011.4	250.4	000.0324	0029.2	058.7	19.18	
009.0	000.3160	0067.6	011.3	250.3	000.0322	0029.3	058.5	19.19	
010.0	000.3160	0067.9	011.4	250.3	000.0321	0029.3	058.4	19.21	
011.0	000.3160	0068.8	011.4	250.2	000.0320	0029.3	058.1	19.24	
012.0	000.3160	0068.7	011.4	250.1	000.0318	0029.3	058.0	19.25	
013.0	000.3160	0069.0	011.4	250.0	000.0317	0029.3	057.8	19.27	
014.0	000.3160	0069.4	011.5	249.9	000.0317	0029.3	057.6	19.31	
015.0	000.3160	0070.5	011.6	249.9	000.0317	0029.3	057.4	19.35	
016.0	000.3160	0072.0	011.7	249.8	000.0317	0029.3	057.2	19.40	
017.0	000.3160	0073.4	011.8	249.8	000.0317	0029.3	057.0	19.45	
018.0	000.3160	0073.5	011.8	249.7	000.0317	0029.3	056.8	19.48	
019.0	000.3160	0073.8	011.8	249.6	000.0317	0029.3	056.6	19.52	
020.0	000.3160	0074.3	011.8	249.4	000.0317	0029.3	056.4	19.56	
021.0	000.3237	0073.2	011.8	249.3	000.0317	0029.3	056.3	19.59	
022.0	000.3315	0070.6	011.7	249.1	000.0317	0029.3	056.2	19.60	
023.0	000.3393	0069.2	011.7	248.9	000.0317	0029.3	056.1	19.63	
024.0	000.3473	0068.1	011.6	248.7	000.0317	0029.3	056.0	19.66	
025.0	000.3553	0067.3	011.6	248.6	000.0317	0029.3	055.8	19.69	
026.0	000.3635	0066.6	011.6	248.4	000.0317	0029.3	055.7	19.72	
027.0	000.3717	0065.7	011.6	248.3	000.0317	0029.3	055.6	19.75	
028.0	000.3800	0065.1	011.7	248.1	000.0317	0029.3	055.4	19.78	
029.0	000.3884	0064.5	011.7	248.0	000.0317	0029.2	055.3	19.81	
030.0	000.3969	0064.0	011.7	247.8	000.0317	0029.2	055.1	19.84	
031.0	000.4069	0063.5	011.7	247.7	000.0317	0029.2	055.0	19.87	
032.0	000.4170	0063.1	011.8	247.5	000.0317	0029.2	054.8	19.90	
033.0	000.4272	0062.9	011.8	247.4	000.0317	0029.2	054.7	19.94	
034.0	000.4375	0062.8	011.9	247.2	000.0317	0029.2	054.5	19.97	
035.0	000.4479	0062.7	011.9	247.1	000.0317	0029.2	054.4	20.00	
036.0	000.4585	0062.9	012.0	246.9	000.0317	0029.2	054.2	20.04	

Exhibit 18.5 - Protection to WLNZ(FM) - Lansing, MI

FMOver Analysis

Page # 2

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
037.0	000.4692	0063.1	012.1	246.8	000.0317	0029.2	054.0	20.08
038.0	000.4800	0063.0	012.1	246.6	000.0317	0029.2	053.9	20.11
039.0	000.4909	0063.0	012.2	246.4	000.0317	0029.2	053.7	20.15
040.0	000.5020	0063.2	012.3	246.3	000.0317	0029.2	053.5	20.18
041.0	000.5141	0063.5	012.4	246.1	000.0317	0029.2	053.4	20.22
042.0	000.5263	0063.9	012.5	245.9	000.0317	0029.2	053.2	20.26
043.0	000.5387	0064.0	012.6	245.7	000.0317	0029.2	053.0	20.29
044.0	000.5512	0064.3	012.7	245.6	000.0317	0029.1	052.9	20.33
045.0	000.5639	0064.4	012.7	245.4	000.0317	0029.1	052.7	20.36
046.0	000.5767	0064.7	012.8	245.2	000.0317	0029.0	052.5	20.40
047.0	000.5897	0065.3	012.9	245.0	000.0317	0029.0	052.4	20.44
048.0	000.6028	0066.0	013.1	244.8	000.0317	0028.9	052.2	20.48
049.0	000.6161	0066.8	013.2	244.6	000.0317	0028.9	052.0	20.52
050.0	000.6294	0067.1	013.3	244.4	000.0317	0028.8	051.8	20.55
051.0	000.6450	0067.5	013.4	244.1	000.0317	0028.8	051.7	20.59
052.0	000.6608	0068.7	013.6	243.9	000.0317	0028.8	051.4	20.64
053.0	000.6767	0070.2	013.8	243.7	000.0317	0028.7	051.2	20.69
054.0	000.6929	0071.5	014.0	243.5	000.0317	0028.7	050.9	20.74
055.0	000.7092	0072.5	014.2	243.2	000.0317	0028.6	050.7	20.79
056.0	000.7258	0073.1	014.3	243.0	000.0317	0028.6	050.6	20.83
057.0	000.7425	0072.7	014.4	242.7	000.0317	0028.6	050.5	20.84
058.0	000.7594	0071.5	014.3	242.4	000.0317	0028.6	050.5	20.84
059.0	000.7765	0069.9	014.3	242.1	000.0317	0028.6	050.6	20.82
060.0	000.7938	0068.7	014.2	241.8	000.0317	0028.6	050.6	20.82
061.0	000.8132	0068.4	014.3	241.6	000.0317	0028.6	050.5	20.83
062.0	000.8328	0068.5	014.4	241.3	000.0317	0028.6	050.5	20.85
063.0	000.8527	0068.6	014.5	241.0	000.0317	0028.6	050.4	20.87
064.0	000.8728	0068.7	014.6	240.7	000.0317	0028.6	050.3	20.89
065.0	000.8931	0068.7	014.6	240.4	000.0317	0028.6	050.2	20.90
066.0	000.9137	0069.3	014.8	240.1	000.0317	0028.6	050.1	20.93
067.0	000.9345	0069.9	014.9	239.8	000.0321	0028.5	050.0	21.01
068.0	000.9555	0070.7	015.1	239.4	000.0326	0028.5	049.8	21.11
069.0	000.9768	0071.2	015.3	239.1	000.0332	0028.4	049.8	21.20
070.0	000.9983	0071.3	015.4	238.8	000.0337	0028.4	049.7	21.28
071.0	001.0106	0071.4	015.4	238.5	000.0342	0028.3	049.7	21.35
072.0	001.0230	0071.5	015.5	238.1	000.0348	0028.3	049.7	21.42
073.0	001.0355	0071.6	015.5	237.8	000.0353	0028.3	049.7	21.48
074.0	001.0481	0072.1	015.6	237.5	000.0359	0028.4	049.7	21.56
075.0	001.0607	0072.7	015.8	237.1	000.0365	0028.4	049.7	21.64
076.0	001.0734	0073.3	015.9	236.8	000.0371	0028.4	049.6	21.72
077.0	001.0862	0073.7	016.0	236.5	000.0377	0028.4	049.6	21.79
078.0	001.0991	0073.8	016.1	236.1	000.0383	0028.4	049.7	21.85
079.0	001.1120	0074.2	016.2	235.8	000.0390	0028.3	049.7	21.91
080.0	001.1250	0074.7	016.3	235.4	000.0396	0028.2	049.7	21.98
081.0	001.1704	0075.5	016.6	235.0	000.0404	0028.0	049.6	22.10
082.0	001.2168	0076.0	016.8	234.6	000.0412	0027.8	049.5	22.20
083.0	001.2641	0076.0	017.0	234.2	000.0420	0027.6	049.5	22.28
084.0	001.3122	0076.4	017.2	233.7	000.0428	0027.4	049.4	22.38
085.0	001.3613	0076.9	017.4	233.3	000.0436	0027.3	049.4	22.47
086.0	001.4112	0077.5	017.7	232.8	000.0445	0027.0	049.3	22.57
087.0	001.4620	0078.2	018.0	232.4	000.0454	0026.8	049.3	22.66

Exhibit 18.5 - Protection to WLNZ (FM) - Lansing, MI

FMOver Analysis

Page # 3

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
088.0	001.5138	0078.8	018.2	231.9	000.0463	0026.7	049.3	22.75
089.0	001.5665	0079.6	018.5	231.4	000.0473	0026.7	049.3	22.84
090.0	001.6200	0079.8	018.6	231.0	000.0481	0026.8	049.3	22.91
091.0	001.7020	0079.4	018.8	230.6	000.0490	0026.9	049.4	22.97
092.0	001.7860	0079.6	019.1	230.1	000.0500	0027.0	049.4	23.06
093.0	001.8721	0079.4	019.3	229.6	000.0511	0027.2	049.5	23.13
094.0	001.9602	0079.2	019.5	229.2	000.0523	0027.5	049.6	23.21
095.0	002.0503	0079.2	019.7	228.7	000.0535	0027.8	049.7	23.29
096.0	002.1424	0079.1	019.9	228.3	000.0547	0028.1	049.8	23.36
097.0	002.2366	0079.3	020.2	227.8	000.0560	0028.4	049.9	23.44
098.0	002.3328	0079.5	020.4	227.4	000.0573	0028.9	050.0	23.51
099.0	002.4310	0079.6	020.6	226.9	000.0585	0029.2	050.2	23.57
100.0	002.5313	0079.7	020.8	226.5	000.0598	0029.2	050.3	23.63
101.0	002.6198	0080.2	021.1	226.0	000.0611	0029.0	050.5	23.69
102.0	002.7098	0080.3	021.3	225.6	000.0623	0028.8	050.7	23.73
103.0	002.8013	0080.8	021.5	225.1	000.0636	0028.6	050.9	23.78
104.0	002.8944	0081.2	021.7	224.7	000.0648	0028.4	051.1	23.82
105.0	002.9890	0081.7	021.9	224.3	000.0661	0028.2	051.3	23.86
106.0	003.0851	0081.8	022.1	223.9	000.0673	0028.1	051.6	23.87
107.0	003.1828	0081.3	022.2	223.6	000.0681	0027.9	051.9	23.86
108.0	003.2819	0080.3	022.2	223.4	000.0687	0027.7	052.2	23.83
109.0	003.3826	0079.4	022.3	223.2	000.0694	0027.5	052.6	23.80
110.0	003.4848	0079.4	022.4	222.9	000.0704	0027.3	052.9	23.79
111.0	003.5805	0079.5	022.6	222.6	000.0713	0027.1	053.2	23.78
112.0	003.6775	0079.5	022.7	222.3	000.0723	0027.2	053.5	23.77
113.0	003.7758	0081.1	023.1	221.8	000.0738	0027.3	053.8	23.81
114.0	003.8753	0082.1	023.4	221.4	000.0751	0027.3	054.1	23.82
115.0	003.9762	0081.3	023.4	221.2	000.0756	0027.2	054.4	23.76
116.0	004.0784	0081.2	023.5	221.0	000.0763	0027.2	054.8	23.73
117.0	004.1818	0080.8	023.6	220.8	000.0769	0027.2	055.2	23.68
118.0	004.2866	0080.6	023.7	220.6	000.0776	0027.2	055.6	23.63
119.0	004.3926	0080.8	023.9	220.4	000.0784	0027.1	055.9	23.60
120.0	004.5000	0080.8	024.0	220.1	000.0790	0027.0	056.3	23.55

Exhibit 18.5 - Protection to WLNZ(FM) - Lansing, MI

01-21-2014 Terrain Data: USGS 03 SEC FMOver Analysis

WLNZ BLED20131127BHJ

WSPB

Channel = 209A
Max ERP = 1 kW
RCAMSL = 293 M
N. Lat. 42 44 15.0
W. Lng. 84 33 12.0
Protected
60 dBu

Channel = 209A
Max ERP = 4.5 kW
RCAMSL = 354 M
N. Lat. 42 27 27.0
W. Lng. 85 14 53.0
Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
182.0	001.0000	0023.9	010.2	069.4	000.9857	0071.3	060.3	37.88	
183.0	001.0000	0024.0	010.2	069.3	000.9843	0071.3	060.1	37.92	
184.0	001.0000	0024.0	010.2	069.3	000.9828	0071.3	060.0	37.97	
185.0	001.0000	0024.1	010.2	069.2	000.9813	0071.3	059.8	38.01	
186.0	001.0000	0024.1	010.2	069.1	000.9797	0071.3	059.7	38.05	
187.0	001.0000	0024.1	010.2	069.1	000.9780	0071.2	059.5	38.09	
188.0	001.0000	0024.1	010.2	069.0	000.9763	0071.2	059.3	38.13	
189.0	001.0000	0024.2	010.2	068.9	000.9745	0071.2	059.2	38.17	
190.0	001.0000	0024.6	010.2	068.8	000.9727	0071.1	059.0	38.21	
191.0	001.0000	0025.1	010.2	068.7	000.9708	0071.1	058.9	38.25	
192.0	001.0000	0025.5	010.2	068.6	000.9688	0071.1	058.7	38.28	
193.0	001.0000	0025.6	010.2	068.5	000.9668	0071.0	058.6	38.32	
194.0	001.0000	0025.9	010.2	068.4	000.9647	0071.0	058.4	38.35	
195.0	001.0000	0026.2	010.2	068.3	000.9625	0070.9	058.3	38.38	
196.0	001.0000	0026.0	010.2	068.2	000.9603	0070.9	058.2	38.42	
197.0	001.0000	0025.7	010.2	068.1	000.9580	0070.8	058.0	38.45	
198.0	001.0000	0025.3	010.2	068.0	000.9557	0070.8	057.9	38.47	
199.0	001.0000	0025.0	010.2	067.9	000.9533	0070.7	057.7	38.50	
200.0	001.0000	0025.0	010.2	067.8	000.9509	0070.6	057.6	38.53	
201.0	001.0000	0025.2	010.2	067.7	000.9484	0070.5	057.5	38.55	
202.0	001.0000	0025.1	010.2	067.5	000.9458	0070.4	057.4	38.58	
203.0	001.0000	0024.8	010.2	067.4	000.9432	0070.3	057.2	38.60	
204.0	001.0000	0024.6	010.2	067.3	000.9405	0070.2	057.1	38.61	
205.0	001.0000	0024.2	010.2	067.2	000.9378	0070.1	057.0	38.63	
206.0	001.0000	0023.9	010.2	067.0	000.9350	0070.0	056.9	38.65	
207.0	001.0000	0023.2	010.2	066.9	000.9322	0069.8	056.7	38.66	
208.0	001.0000	0023.0	010.2	066.8	000.9293	0069.7	056.6	38.68	
209.0	001.0000	0022.8	010.2	066.6	000.9264	0069.6	056.5	38.69	
210.0	001.0000	0022.7	010.2	066.5	000.9234	0069.5	056.4	38.70	
211.0	001.0000	0022.6	010.2	066.3	000.9204	0069.4	056.3	38.72	
212.0	001.0000	0022.8	010.2	066.2	000.9173	0069.4	056.2	38.73	
213.0	001.0000	0023.1	010.2	066.0	000.9142	0069.3	056.1	38.74	
214.0	001.0000	0023.4	010.2	065.9	000.9111	0069.2	056.0	38.75	

Exhibit 18.5 - Protection to WLNZ(FM) - Lansing, MI

FMOver Analysis

Page # 5

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
215.0	001.0000	0023.9	010.2	065.7	000.9079	0069.1	055.9	38.76
216.0	001.0000	0024.3	010.2	065.6	000.9047	0069.0	055.8	38.77
217.0	001.0000	0025.3	010.2	065.4	000.9014	0068.9	055.7	38.77
218.0	001.0000	0026.3	010.2	065.2	000.8981	0068.8	055.7	38.77
219.0	001.0000	0026.9	010.2	065.1	000.8948	0068.7	055.6	38.78
220.0	001.0000	0026.9	010.2	064.9	000.8914	0068.7	055.5	38.78
221.0	001.0000	0027.2	010.2	064.8	000.8880	0068.7	055.4	38.79
222.0	001.0000	0027.3	010.2	064.6	000.8846	0068.7	055.3	38.80
223.0	001.0000	0027.4	010.2	064.4	000.8812	0068.7	055.3	38.80
224.0	001.0000	0028.1	010.2	064.2	000.8777	0068.7	055.2	38.81
225.0	001.0000	0028.6	010.2	064.1	000.8742	0068.7	055.2	38.81
226.0	001.0000	0029.0	010.2	063.9	000.8707	0068.6	055.1	38.81
227.0	001.0000	0029.1	010.2	063.7	000.8671	0068.6	055.0	38.81
228.0	001.0000	0028.3	010.2	063.5	000.8636	0068.6	055.0	38.80
229.0	001.0000	0027.6	010.2	063.4	000.8600	0068.6	054.9	38.80
230.0	001.0000	0027.1	010.2	063.2	000.8564	0068.6	054.9	38.80
231.0	001.0000	0026.8	010.2	063.0	000.8528	0068.6	054.9	38.79
232.0	001.0000	0026.7	010.2	062.8	000.8492	0068.6	054.8	38.79
233.0	001.0000	0027.1	010.2	062.6	000.8455	0068.5	054.8	38.77
234.0	001.0000	0027.5	010.2	062.5	000.8419	0068.5	054.8	38.76
235.0	001.0000	0028.0	010.2	062.3	000.8382	0068.5	054.7	38.75
236.0	001.0000	0028.4	010.2	062.1	000.8346	0068.5	054.7	38.74
237.0	001.0000	0028.4	010.2	061.9	000.8310	0068.4	054.7	38.72
238.0	001.0000	0028.3	010.2	061.7	000.8273	0068.4	054.7	38.70
239.0	001.0000	0028.4	010.2	061.5	000.8237	0068.4	054.7	38.69
240.0	001.0000	0028.6	010.2	061.3	000.8200	0068.4	054.7	38.67
241.0	001.0000	0028.6	010.2	061.2	000.8164	0068.4	054.7	38.65
242.0	001.0000	0028.6	010.2	061.0	000.8128	0068.4	054.7	38.63
243.0	001.0000	0028.6	010.2	060.8	000.8091	0068.4	054.7	38.62
244.0	001.0000	0028.8	010.2	060.6	000.8055	0068.5	054.7	38.60
245.0	001.0000	0029.0	010.2	060.4	000.8019	0068.5	054.7	38.58
246.0	001.0000	0029.2	010.2	060.2	000.7983	0068.6	054.7	38.56
247.0	001.0000	0029.2	010.2	060.1	000.7948	0068.7	054.7	38.54
248.0	001.0000	0029.3	010.2	059.9	000.7915	0068.8	054.7	38.53
249.0	001.0000	0029.3	010.2	059.7	000.7883	0069.0	054.8	38.52
250.0	001.0000	0029.3	010.2	059.5	000.7851	0069.2	054.8	38.51
251.0	001.0000	0029.2	010.2	059.3	000.7820	0069.4	054.8	38.50
252.0	001.0000	0029.0	010.2	059.1	000.7788	0069.7	054.9	38.49
253.0	001.0000	0028.9	010.2	059.0	000.7757	0069.9	054.9	38.48
254.0	001.0000	0028.6	010.2	058.8	000.7727	0070.2	054.9	38.47
255.0	001.0000	0028.5	010.2	058.6	000.7696	0070.4	055.0	38.46
256.0	001.0000	0028.3	010.2	058.4	000.7666	0070.7	055.0	38.45
257.0	001.0000	0028.3	010.2	058.2	000.7636	0071.0	055.1	38.45
258.0	001.0000	0028.3	010.2	058.1	000.7606	0071.3	055.2	38.44
259.0	001.0000	0028.4	010.2	057.9	000.7577	0071.6	055.2	38.42
260.0	001.0000	0028.5	010.2	057.7	000.7548	0071.8	055.3	38.40
261.0	001.0000	0028.6	010.2	057.6	000.7519	0072.0	055.3	38.38
262.0	001.0000	0028.5	010.2	057.4	000.7490	0072.2	055.4	38.36
263.0	001.0000	0028.4	010.2	057.2	000.7462	0072.4	055.5	38.33
264.0	001.0000	0028.9	010.2	057.1	000.7435	0072.6	055.6	38.30
265.0	001.0000	0029.5	010.2	056.9	000.7407	0072.9	055.6	38.28

Exhibit 18.5 - Protection to WLNZ (FM) - Lansing, MI

FMOver Analysis

Page # 6

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
266.0	001.0000	0030.2	010.2	056.7	000.7378	0073.0	055.7	38.26
267.0	001.0000	0030.8	010.3	056.5	000.7343	0073.1	055.7	38.24
268.0	001.0000	0031.5	010.4	056.3	000.7308	0073.1	055.7	38.22
269.0	001.0000	0032.1	010.5	056.1	000.7274	0073.2	055.8	38.19
270.0	001.0000	0032.4	010.5	055.9	000.7244	0073.1	055.8	38.15
271.0	001.0000	0032.8	010.6	055.7	000.7213	0073.1	055.9	38.11
272.0	001.0000	0033.1	010.6	055.5	000.7182	0073.0	055.9	38.06
273.0	001.0000	0033.4	010.6	055.4	000.7153	0072.9	056.0	38.01
274.0	001.0000	0034.8	010.8	055.1	000.7108	0072.6	056.0	37.97
275.0	001.0000	0036.2	011.0	054.8	000.7062	0072.3	055.9	37.93
276.0	001.0000	0037.9	011.3	054.5	000.7010	0072.0	055.9	37.89
277.0	001.0000	0039.1	011.5	054.2	000.6966	0071.8	055.9	37.84
278.0	001.0000	0038.7	011.4	054.1	000.6947	0071.6	056.1	37.76
279.0	001.0000	0038.3	011.3	054.0	000.6932	0071.5	056.2	37.68
280.0	001.0000	0037.4	011.2	054.0	000.6924	0071.5	056.5	37.60
281.0	001.0000	0036.9	011.1	053.9	000.6910	0071.4	056.7	37.52
282.0	001.0000	0036.7	011.1	053.8	000.6890	0071.2	056.8	37.44
283.0	001.0000	0036.8	011.1	053.6	000.6868	0071.0	057.0	37.36
284.0	001.0000	0036.9	011.1	053.5	000.6846	0070.9	057.1	37.29
285.0	001.0000	0037.1	011.2	053.3	000.6822	0070.6	057.2	37.22
286.0	001.0000	0037.4	011.2	053.2	000.6797	0070.4	057.4	37.14
287.0	001.0000	0038.1	011.3	053.0	000.6766	0070.2	057.5	37.07
288.0	001.0000	0038.9	011.4	052.8	000.6733	0069.9	057.5	36.99
289.0	001.0000	0039.2	011.5	052.6	000.6708	0069.7	057.7	36.92
290.0	001.0000	0039.2	011.5	052.5	000.6691	0069.5	057.9	36.84
291.0	001.0000	0039.0	011.5	052.4	000.6678	0069.4	058.0	36.76
292.0	001.0000	0038.2	011.3	052.4	000.6677	0069.4	058.3	36.68
293.0	001.0000	0037.1	011.2	052.5	000.6683	0069.5	058.5	36.61
294.0	001.0000	0036.6	011.1	052.4	000.6678	0069.4	058.7	36.54
295.0	001.0000	0036.4	011.1	052.4	000.6668	0069.3	058.9	36.47
296.0	001.0000	0036.0	011.0	052.3	000.6660	0069.2	059.1	36.39
297.0	001.0000	0035.6	011.0	052.3	000.6657	0069.2	059.3	36.32
298.0	001.0000	0035.4	010.9	052.3	000.6648	0069.1	059.5	36.25
299.0	001.0000	0035.4	010.9	052.2	000.6636	0069.0	059.7	36.18
300.0	001.0000	0035.5	010.9	052.1	000.6622	0068.8	059.8	36.11
301.0	000.9761	0036.3	011.0	052.0	000.6604	0068.7	060.0	36.04

Exhibit 18.6**Protection to WOCR(FM) - Olivet, MI**

WSPB - Bedford, MI
Holy Family Radio, Inc.

FMCommander Single Allocation Study - 01-21-2014 - USGS 03 SEC
WSPB's Overlaps (In= 5.57 km, Out= 15.68 km)

WSPB CH 209 A DA
Lat= 42 27 27.0, Lng= 85 14 53.0
4.5 kW 74.6 M HAAT, 354 M COR
Prot.= 60 dBu, Intef.= 100 dBu

WO CR CH 206 A BLED20100908ACJ
Lat= 42 26 31.0, Lng= 84 55 30.0
0.5 kW 25 M HAAT, 303 M COR
Prot.= 60 dBu, Intef.= 100 dBu

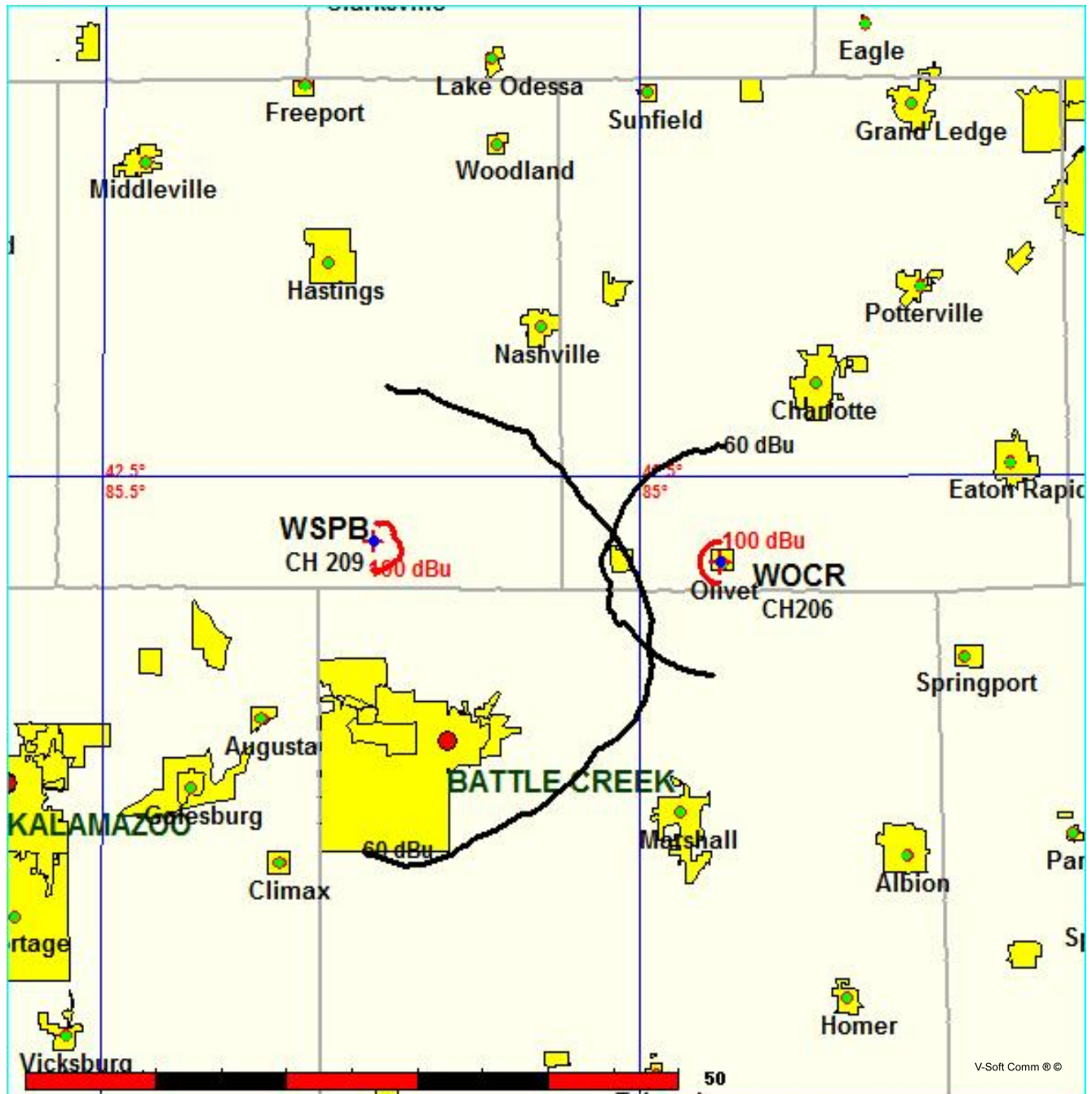


Exhibit 18.6 - Protection to WOCR(FM) - Olivet, MI

01-21-2014

Terrain Data: USGS 03 SEC

FMOver Analysis

WSPB

WOCR BLED20100908ACJ

Channel = 209A
Max ERP = 4.5 kW
RCAMSL = 354 M
N. Lat. 42 27 27.0
W. Lng. 85 14 53.0
Protected
60 dBu

Channel = 206A
Max ERP = 0.5 kW
RCAMSL = 303 M
N. Lat. 42 26 31.0
W. Lng. 84 55 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)
034.0	000.4375	0062.8	011.9	300.3	000.5000	0020.4	023.0	43.58	
035.0	000.4479	0062.7	011.9	300.4	000.5000	0020.3	022.8	43.73	
036.0	000.4585	0062.9	012.0	300.6	000.5000	0020.3	022.5	43.89	
037.0	000.4692	0063.1	012.1	300.7	000.5000	0020.2	022.3	44.05	
038.0	000.4800	0063.0	012.1	300.8	000.5000	0020.2	022.1	44.21	
039.0	000.4909	0063.0	012.2	300.9	000.5000	0020.2	021.9	44.38	
040.0	000.5020	0063.2	012.3	301.0	000.5000	0020.1	021.7	44.55	
041.0	000.5141	0063.5	012.4	301.2	000.5000	0020.1	021.4	44.72	
042.0	000.5263	0063.9	012.5	301.3	000.5000	0020.0	021.2	44.90	
043.0	000.5387	0064.0	012.6	301.4	000.5000	0020.0	021.0	45.08	
044.0	000.5512	0064.3	012.7	301.6	000.5000	0020.0	020.7	45.26	
045.0	000.5639	0064.4	012.7	301.6	000.5000	0020.0	020.5	45.44	
046.0	000.5767	0064.7	012.8	301.7	000.5000	0019.9	020.3	45.63	
047.0	000.5897	0065.3	012.9	301.9	000.5000	0019.9	020.0	45.83	
048.0	000.6028	0066.0	013.1	302.1	000.5000	0019.9	019.8	46.03	
049.0	000.6161	0066.8	013.2	302.2	000.5000	0019.8	019.5	46.24	
050.0	000.6294	0067.1	013.3	302.3	000.5000	0019.8	019.3	46.44	
051.0	000.6450	0067.5	013.4	302.4	000.5000	0019.8	019.0	46.65	
052.0	000.6608	0068.7	013.6	302.7	000.5000	0019.6	018.7	46.88	
053.0	000.6767	0070.2	013.8	303.1	000.5000	0019.6	018.4	47.12	
054.0	000.6929	0071.5	014.0	303.4	000.5000	0019.6	018.1	47.36	
055.0	000.7092	0072.5	014.2	303.6	000.5000	0019.6	017.8	47.61	
056.0	000.7258	0073.1	014.3	303.7	000.5000	0019.6	017.5	47.84	
057.0	000.7425	0072.7	014.4	303.5	000.5000	0019.6	017.3	48.05	
058.0	000.7594	0071.5	014.3	303.1	000.5000	0019.6	017.1	48.23	
059.0	000.7765	0069.9	014.3	302.5	000.5000	0019.7	016.9	48.39	
060.0	000.7938	0068.7	014.2	302.0	000.5000	0019.9	016.7	48.56	
061.0	000.8132	0068.4	014.3	301.8	000.5000	0019.9	016.4	48.77	
062.0	000.8328	0068.5	014.4	301.6	000.5000	0020.0	016.2	48.99	
063.0	000.8527	0068.6	014.5	301.4	000.5000	0020.0	015.9	49.21	
064.0	000.8728	0068.7	014.6	301.2	000.5000	0020.1	015.7	49.44	
065.0	000.8931	0068.7	014.6	301.0	000.5000	0020.1	015.4	49.67	
066.0	000.9137	0069.3	014.8	300.8	000.5000	0020.2	015.1	49.92	
067.0	000.9345	0069.9	014.9	300.7	000.5000	0020.2	014.8	50.22	
068.0	000.9555	0070.7	015.1	300.7	000.5000	0020.2	014.5	50.59	
069.0	000.9768	0071.2	015.3	300.5	000.5000	0020.3	014.2	50.95	

Exhibit 18.6 - Protection to WOCR(FM) - Olivet, MI

FMOver Analysis

Page # 2

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
070.0	000.9983	0071.3	015.4	300.1	000.5000	0020.5	013.9	51.28
071.0	001.0106	0071.4	015.4	299.5	000.5000	0020.7	013.7	51.60
072.0	001.0230	0071.5	015.5	298.9	000.5000	0021.0	013.4	51.92
073.0	001.0355	0071.6	015.5	298.3	000.5000	0021.3	013.2	52.24
074.0	001.0481	0072.1	015.6	297.8	000.5000	0021.6	012.9	52.61
075.0	001.0607	0072.7	015.8	297.3	000.5000	0022.1	012.7	53.01
076.0	001.0734	0073.3	015.9	296.7	000.5000	0022.5	012.4	53.40
077.0	001.0862	0073.7	016.0	296.0	000.5000	0022.9	012.1	53.78
078.0	001.0991	0073.8	016.1	295.2	000.5000	0023.4	011.9	54.13
079.0	001.1120	0074.2	016.2	294.3	000.5000	0023.9	011.7	54.51
080.0	001.1250	0074.7	016.3	293.5	000.5000	0024.4	011.4	54.92
081.0	001.1704	0075.5	016.6	293.1	000.5000	0024.7	011.0	55.56
082.0	001.2168	0076.0	016.8	292.4	000.5000	0025.3	010.6	56.16
083.0	001.2641	0076.0	017.0	291.5	000.5000	0025.8	010.3	56.66
084.0	001.3122	0076.4	017.2	290.5	000.5000	0025.9	010.0	57.24
085.0	001.3613	0076.9	017.4	289.5	000.5000	0025.8	009.7	57.85
086.0	001.4112	0077.5	017.7	288.4	000.5000	0025.6	009.3	58.48
087.0	001.4620	0078.2	018.0	287.2	000.5000	0025.6	009.0	59.12
088.0	001.5138	0078.8	018.2	285.7	000.5000	0026.4	008.6	59.73
089.0	001.5665	0079.6	018.5	284.2	000.5000	0027.9	008.3	60.39
090.0	001.6200	0079.8	018.6	282.3	000.5000	0029.9	008.0	60.87
091.0	001.7020	0079.4	018.8	280.2	000.5000	0030.8	007.8	61.59
092.0	001.7860	0079.6	019.1	278.0	000.5000	0032.3	007.5	62.60
093.0	001.8721	0079.4	019.3	275.5	000.5000	0033.4	007.3	63.38
094.0	001.9602	0079.2	019.5	272.8	000.5000	0034.5	007.1	64.14
095.0	002.0503	0079.2	019.7	269.9	000.5000	0034.7	006.9	64.70
096.0	002.1424	0079.1	019.9	266.8	000.5000	0034.2	006.7	64.97
097.0	002.2366	0079.3	020.2	263.4	000.5000	0032.5	006.5	65.01
098.0	002.3328	0079.5	020.4	259.8	000.5000	0030.2	006.4	64.78
099.0	002.4310	0079.6	020.6	256.1	000.5000	0032.2	006.3	65.48
100.0	002.5313	0079.7	020.8	252.3	000.5000	0033.7	006.3	65.96
101.0	002.6198	0080.2	021.1	248.3	000.5000	0035.9	006.3	66.50
102.0	002.7098	0080.3	021.3	244.6	000.5000	0034.4	006.3	65.99
103.0	002.8013	0080.8	021.5	240.7	000.5000	0034.8	006.4	65.92
104.0	002.8944	0081.2	021.7	236.9	000.5000	0027.9	006.5	64.48
105.0	002.9890	0081.7	021.9	233.2	000.5000	0024.1	006.7	64.12
106.0	003.0851	0081.8	022.1	230.1	000.5000	0024.0	006.9	63.59
107.0	003.1828	0081.3	022.2	227.8	000.5000	0024.2	007.1	62.90
108.0	003.2819	0080.3	022.2	226.1	000.5000	0022.7	007.5	62.11
109.0	003.3826	0079.4	022.3	224.5	000.5000	0020.5	007.8	61.39
110.0	003.4848	0079.4	022.4	222.4	000.5000	0019.8	008.1	60.79
111.0	003.5805	0079.5	022.6	220.5	000.5000	0019.9	008.4	60.19
112.0	003.6775	0079.5	022.7	218.7	000.5000	0019.7	008.7	59.57
113.0	003.7758	0081.1	023.1	215.8	000.5000	0019.7	009.0	59.01
114.0	003.8753	0082.1	023.4	213.7	000.5000	0019.7	009.4	58.38
115.0	003.9762	0081.3	023.4	213.1	000.5000	0019.6	009.8	57.67
116.0	004.0784	0081.2	023.5	212.2	000.5000	0019.5	010.2	56.98
117.0	004.1818	0080.8	023.6	211.5	000.5000	0019.3	010.6	56.29
118.0	004.2866	0080.6	023.7	210.8	000.5000	0019.2	011.0	55.61
119.0	004.3926	0080.8	023.9	210.0	000.5000	0018.9	011.4	54.95
120.0	004.5000	0080.8	024.0	209.3	000.5000	0018.8	011.8	54.29

Exhibit 18.6 - Protection to WOCR(FM) - Olivet, MI

FMOver Analysis

Page # 3

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
121.0	004.5000	0080.9	024.0	209.3	000.5000	0018.8	012.2	53.65
122.0	004.5000	0080.8	024.0	209.4	000.5000	0018.8	012.6	53.04
123.0	004.5000	0081.0	024.0	209.4	000.5000	0018.8	013.1	52.44
124.0	004.5000	0081.9	024.1	209.0	000.5000	0018.6	013.5	51.86
125.0	004.5000	0082.1	024.2	209.1	000.5000	0018.7	013.9	51.31
126.0	004.5000	0081.7	024.1	209.5	000.5000	0018.8	014.3	50.79
127.0	004.5000	0081.4	024.1	209.8	000.5000	0018.9	014.7	50.30
128.0	004.5000	0080.9	024.0	210.3	000.5000	0019.0	015.1	49.89
129.0	004.5000	0080.3	023.9	210.9	000.5000	0019.2	015.5	49.54
130.0	004.5000	0079.7	023.8	211.4	000.5000	0019.3	015.9	49.20
131.0	004.5000	0078.0	023.6	212.5	000.5000	0019.5	016.3	48.88
132.0	004.5000	0076.6	023.4	213.4	000.5000	0019.6	016.7	48.56
133.0	004.5000	0076.1	023.3	213.8	000.5000	0019.7	017.1	48.23
134.0	004.5000	0076.5	023.4	213.8	000.5000	0019.7	017.5	47.89
135.0	004.5000	0077.3	023.5	213.8	000.5000	0019.7	017.9	47.54
136.0	004.5000	0077.6	023.5	213.9	000.5000	0019.7	018.3	47.20
137.0	004.5000	0078.4	023.6	213.8	000.5000	0019.7	018.7	46.85
138.0	004.5000	0078.2	023.6	214.2	000.5000	0019.7	019.1	46.53
139.0	004.5000	0078.4	023.6	214.4	000.5000	0019.6	019.5	46.20
140.0	004.5000	0079.2	023.8	214.4	000.5000	0019.6	020.0	45.86
141.0	004.5000	0079.1	023.7	214.8	000.5000	0019.6	020.4	45.55
142.0	004.5000	0078.6	023.7	215.3	000.5000	0019.6	020.7	45.25
143.0	004.5000	0078.6	023.7	215.6	000.5000	0019.7	021.1	44.94
144.0	004.5000	0078.8	023.7	215.9	000.5000	0019.7	021.5	44.64
145.0	004.5000	0079.5	023.8	216.0	000.5000	0019.7	022.0	44.32
146.0	004.5000	0080.0	023.9	216.2	000.5000	0019.7	022.4	44.01
147.0	004.5000	0080.2	023.9	216.5	000.5000	0019.8	022.8	43.71
148.0	004.5000	0080.5	023.9	216.8	000.5000	0019.8	023.2	43.41
149.0	004.5000	0080.3	023.9	217.2	000.5000	0019.8	023.6	43.14
150.0	004.5000	0079.8	023.8	217.8	000.5000	0019.8	023.9	42.89
151.0	004.5000	0078.9	023.7	218.4	000.5000	0019.7	024.3	42.66
152.0	004.5000	0078.4	023.6	219.0	000.5000	0019.7	024.6	42.42
153.0	004.5000	0078.2	023.6	219.4	000.5000	0019.7	025.0	42.17

Exhibit 18.6 - Protection to WOCR(FM) - Olivet, MI

01-21-2014 Terrain Data: USGS 03 SEC FMOver Analysis

WOCR BLED20100908ACJ

WSPB

Channel = 206A
Max ERP = 0.5 kW
RCAMSL = 303 M
N. Lat. 42 26 31.0
W. Lng. 84 55 30.0
Protected
60 dBu

Channel = 209A
Max ERP = 4.5 kW
RCAMSL = 354 M
N. Lat. 42 27 27.0
W. Lng. 85 14 53.0
Interfering
100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
214.0	000.5000	0019.7	008.5	111.9	003.6657	0079.3	023.5	60.20	
215.0	000.5000	0019.6	008.5	111.8	003.6581	0079.2	023.3	60.28	
216.0	000.5000	0019.7	008.5	111.7	003.6498	0079.1	023.2	60.37	
217.0	000.5000	0019.8	008.5	111.6	003.6407	0079.1	023.0	60.46	
218.0	000.5000	0019.8	008.5	111.5	003.6310	0079.1	022.9	60.56	
219.0	000.5000	0019.7	008.5	111.4	003.6206	0079.2	022.8	60.66	
220.0	000.5000	0019.8	008.5	111.3	003.6094	0079.2	022.6	60.76	
221.0	000.5000	0019.9	008.5	111.2	003.5975	0079.3	022.5	60.86	
222.0	000.5000	0019.9	008.5	111.0	003.5849	0079.4	022.3	60.97	
223.0	000.5000	0019.6	008.5	110.9	003.5715	0079.5	022.2	61.07	
224.0	000.5000	0020.0	008.5	110.8	003.5574	0079.6	022.1	61.17	
225.0	000.5000	0021.1	008.5	110.6	003.5426	0079.6	021.9	61.26	
226.0	000.5000	0022.5	008.5	110.4	003.5270	0079.6	021.8	61.34	
227.0	000.5000	0023.6	008.5	110.3	003.5106	0079.5	021.7	61.42	
228.0	000.5000	0024.3	008.5	110.1	003.4935	0079.4	021.5	61.48	
229.0	000.5000	0024.2	008.5	109.9	003.4749	0079.4	021.4	61.56	
230.0	000.5000	0024.0	008.5	109.7	003.4548	0079.4	021.3	61.64	
231.0	000.5000	0023.7	008.5	109.5	003.4338	0079.3	021.1	61.71	
232.0	000.5000	0023.9	008.5	109.3	003.4121	0079.3	021.0	61.78	
233.0	000.5000	0024.1	008.5	109.1	003.3895	0079.4	020.9	61.86	
234.0	000.5000	0024.5	008.5	108.8	003.3662	0079.5	020.8	61.94	
235.0	000.5000	0025.7	008.5	108.6	003.3420	0079.7	020.6	62.02	
236.0	000.5000	0026.7	008.5	108.4	003.3171	0079.9	020.5	62.11	
237.0	000.5000	0028.0	008.5	108.1	003.2914	0080.2	020.4	62.20	
238.0	000.5000	0031.1	008.6	108.1	003.2968	0080.1	020.2	62.37	
239.0	000.5000	0033.8	009.0	108.6	003.3446	0079.7	019.9	62.66	
240.0	000.5000	0034.3	009.1	108.5	003.3305	0079.8	019.7	62.79	
241.0	000.5000	0034.9	009.1	108.3	003.3165	0079.9	019.5	62.92	
242.0	000.5000	0035.0	009.2	108.0	003.2866	0080.2	019.4	63.02	
243.0	000.5000	0035.1	009.2	107.7	003.2552	0080.6	019.3	63.11	
244.0	000.5000	0034.8	009.1	107.3	003.2137	0081.1	019.2	63.19	
245.0	000.5000	0034.2	009.1	106.8	003.1651	0081.4	019.1	63.20	
246.0	000.5000	0034.6	009.1	106.6	003.1398	0081.5	019.0	63.30	

Exhibit 18.6 - Protection to WOCR(FM) - Olivet, MI

FMOver Analysis

Page # 5

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
247.0	000.5000	0035.6	009.2	106.4	003.1277	0081.6	018.8	63.46
248.0	000.5000	0035.9	009.3	106.1	003.0977	0081.8	018.7	63.54
249.0	000.5000	0035.6	009.2	105.7	003.0520	0081.9	018.6	63.54
250.0	000.5000	0035.1	009.2	105.2	003.0039	0081.8	018.5	63.51
251.0	000.5000	0034.2	009.0	104.5	002.9452	0081.4	018.6	63.37
252.0	000.5000	0033.8	009.0	104.0	002.8984	0081.2	018.5	63.31
253.0	000.5000	0033.4	008.9	103.5	002.8523	0081.1	018.5	63.26
254.0	000.5000	0032.5	008.8	102.9	002.7962	0080.8	018.5	63.12
255.0	000.5000	0032.0	008.8	102.4	002.7497	0080.5	018.5	63.03
256.0	000.5000	0032.3	008.8	102.1	002.7152	0080.3	018.4	63.04
257.0	000.5000	0031.8	008.7	101.5	002.6687	0080.3	018.4	62.97
258.0	000.5000	0031.0	008.6	101.0	002.6175	0080.2	018.4	62.84
259.0	000.5000	0030.2	008.5	100.4	002.5688	0080.0	018.4	62.71
260.0	000.5000	0030.2	008.5	100.0	002.5308	0079.7	018.4	62.66
261.0	000.5000	0030.3	008.5	099.6	002.4877	0079.6	018.3	62.62
262.0	000.5000	0031.3	008.7	099.2	002.4559	0079.6	018.2	62.71
263.0	000.5000	0032.1	008.8	098.9	002.4200	0079.6	018.0	62.77
264.0	000.5000	0032.9	008.9	098.5	002.3818	0079.6	017.9	62.82
265.0	000.5000	0033.4	008.9	098.1	002.3387	0079.5	017.8	62.81
266.0	000.5000	0033.9	009.0	097.6	002.2954	0079.4	017.7	62.81
267.0	000.5000	0034.3	009.1	097.1	002.2501	0079.4	017.6	62.78
268.0	000.5000	0034.5	009.1	096.7	002.2035	0079.2	017.5	62.72
269.0	000.5000	0034.8	009.1	096.2	002.1568	0079.1	017.5	62.66
270.0	000.5000	0034.6	009.1	095.6	002.1077	0079.1	017.5	62.56
271.0	000.5000	0034.5	009.1	095.1	002.0597	0079.2	017.5	62.47
272.0	000.5000	0034.3	009.1	094.6	002.0122	0079.2	017.5	62.36
273.0	000.5000	0034.5	009.1	094.1	001.9658	0079.2	017.5	62.28
274.0	000.5000	0034.0	009.0	093.5	001.9198	0079.3	017.5	62.14
275.0	000.5000	0033.7	009.0	093.0	001.8751	0079.4	017.6	62.00
276.0	000.5000	0032.9	008.9	092.5	001.8324	0079.6	017.7	61.84
277.0	000.5000	0032.4	008.8	092.1	001.7909	0079.7	017.8	61.68
278.0	000.5000	0032.3	008.8	091.6	001.7497	0079.5	017.8	61.53
279.0	000.5000	0032.0	008.8	091.1	001.7101	0079.4	017.9	61.38
280.0	000.5000	0031.0	008.6	090.7	001.6753	0079.5	018.0	61.18
281.0	000.5000	0030.5	008.6	090.2	001.6398	0079.7	018.1	61.03
282.0	000.5000	0030.0	008.5	089.8	001.6101	0079.8	018.2	60.88
283.0	000.5000	0029.4	008.5	089.4	001.5859	0079.7	018.2	60.77
284.0	000.5000	0028.2	008.5	088.9	001.5618	0079.5	018.3	60.66
285.0	000.5000	0026.9	008.5	088.5	001.5382	0079.2	018.3	60.52
286.0	000.5000	0026.2	008.5	088.0	001.5149	0078.8	018.3	60.38
287.0	000.5000	0025.7	008.5	087.6	001.4920	0078.5	018.4	60.24
288.0	000.5000	0025.5	008.5	087.1	001.4696	0078.3	018.4	60.11
289.0	000.5000	0025.7	008.5	086.7	001.4476	0078.0	018.5	59.97
290.0	000.5000	0025.8	008.5	086.3	001.4261	0077.7	018.5	59.81
291.0	000.5000	0025.9	008.5	085.9	001.4050	0077.4	018.6	59.67
292.0	000.5000	0025.6	008.5	085.5	001.3844	0077.1	018.7	59.52
293.0	000.5000	0024.8	008.5	085.1	001.3643	0076.9	018.7	59.37
294.0	000.5000	0024.1	008.5	084.7	001.3446	0076.7	018.8	59.23
295.0	000.5000	0023.6	008.5	084.3	001.3254	0076.5	018.9	59.08
296.0	000.5000	0022.9	008.5	083.9	001.3067	0076.3	019.0	58.94
297.0	000.5000	0022.3	008.5	083.5	001.2885	0076.1	019.0	58.79

Exhibit 18.6 - Protection to WOCR(FM) - Olivet, MI

FMOver Analysis

Page # 6

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
298.0	000.5000	0021.5	008.5	083.1	001.2708	0076.0	019.1	58.64
299.0	000.5000	0021.0	008.5	082.8	001.2535	0075.9	019.2	58.51
300.0	000.5000	0020.5	008.5	082.4	001.2367	0076.0	019.3	58.38
301.0	000.5000	0020.1	008.5	082.1	001.2204	0076.0	019.4	58.25
302.0	000.5000	0019.9	008.5	081.7	001.2046	0076.0	019.5	58.11
303.0	000.5000	0019.6	008.5	081.4	001.1893	0075.8	019.6	57.96
304.0	000.5000	0019.6	008.5	081.1	001.1745	0075.6	019.7	57.80
305.0	000.5000	0019.5	008.5	080.8	001.1601	0075.3	019.8	57.63
306.0	000.5000	0019.4	008.5	080.5	001.1462	0075.1	019.9	57.46
307.0	000.5000	0019.2	008.5	080.2	001.1328	0074.8	020.0	57.29
308.0	000.5000	0019.0	008.5	079.9	001.1235	0074.6	020.1	57.15
309.0	000.5000	0018.8	008.5	079.6	001.1199	0074.5	020.2	57.03
310.0	000.5000	0018.6	008.5	079.3	001.1163	0074.3	020.3	56.90
311.0	000.5000	0018.5	008.5	079.1	001.1129	0074.2	020.4	56.78
312.0	000.5000	0018.3	008.5	078.8	001.1096	0074.1	020.6	56.66
313.0	000.5000	0018.3	008.5	078.6	001.1065	0074.0	020.7	56.54
314.0	000.5000	0018.1	008.5	078.3	001.1034	0074.0	020.8	56.43
315.0	000.5000	0018.1	008.5	078.1	001.1005	0073.9	020.9	56.30
316.0	000.5000	0018.2	008.5	077.9	001.0977	0073.8	021.0	56.19
317.0	000.5000	0018.4	008.5	077.7	001.0949	0073.8	021.2	56.07
318.0	000.5000	0018.6	008.5	077.5	001.0923	0073.7	021.3	55.96
319.0	000.5000	0018.8	008.5	077.3	001.0899	0073.7	021.4	55.84
320.0	000.5000	0018.8	008.5	077.1	001.0875	0073.7	021.6	55.73
321.0	000.5000	0019.2	008.5	076.9	001.0852	0073.6	021.7	55.61
322.0	000.5000	0019.6	008.5	076.8	001.0831	0073.6	021.8	55.49
323.0	000.5000	0019.9	008.5	076.6	001.0810	0073.5	022.0	55.37
324.0	000.5000	0020.0	008.5	076.4	001.0791	0073.5	022.1	55.24
325.0	000.5000	0020.9	008.5	076.3	001.0772	0073.4	022.2	55.12
326.0	000.5000	0021.8	008.5	076.2	001.0755	0073.3	022.4	55.00
327.0	000.5000	0022.7	008.5	076.0	001.0738	0073.3	022.5	54.88
328.0	000.5000	0023.5	008.5	075.9	001.0723	0073.2	022.7	54.76
329.0	000.5000	0024.4	008.5	075.8	001.0709	0073.2	022.8	54.64
330.0	000.5000	0025.4	008.5	075.7	001.0695	0073.1	022.9	54.52
331.0	000.5000	0026.0	008.5	075.6	001.0683	0073.1	023.1	54.40
332.0	000.5000	0027.0	008.5	075.5	001.0671	0073.0	023.2	54.28
333.0	000.5000	0027.5	008.5	075.4	001.0661	0073.0	023.4	54.16

Exhibit 18.7

WSPB - Bedford, MI
Holy Family Radio, Inc.

Protection to WOFR(FM) - Schoolcraft, MI

FMCommander Single Allocation Study - 01-21-2014 - USGS 03 SEC
WSPB's Overlaps (In= 10.13 km, Out= 9.63 km)

WSPB CH 209 A DA
Lat= 42 27 27.0, Lng= 85 14 53.0
4.5 kW 74.6 M HAAT, 354 M COR
Prot.= 60 dBu, Intef.= 54 dBu

WOFR CH 208 B1 DA BMLED20130530AMJ
Lat= 42 06 38.0, Lng= 85 37 57.0
10.0 kW 42 M HAAT, 305 M COR
Prot.= 60 dBu, Intef.= 54 dBu

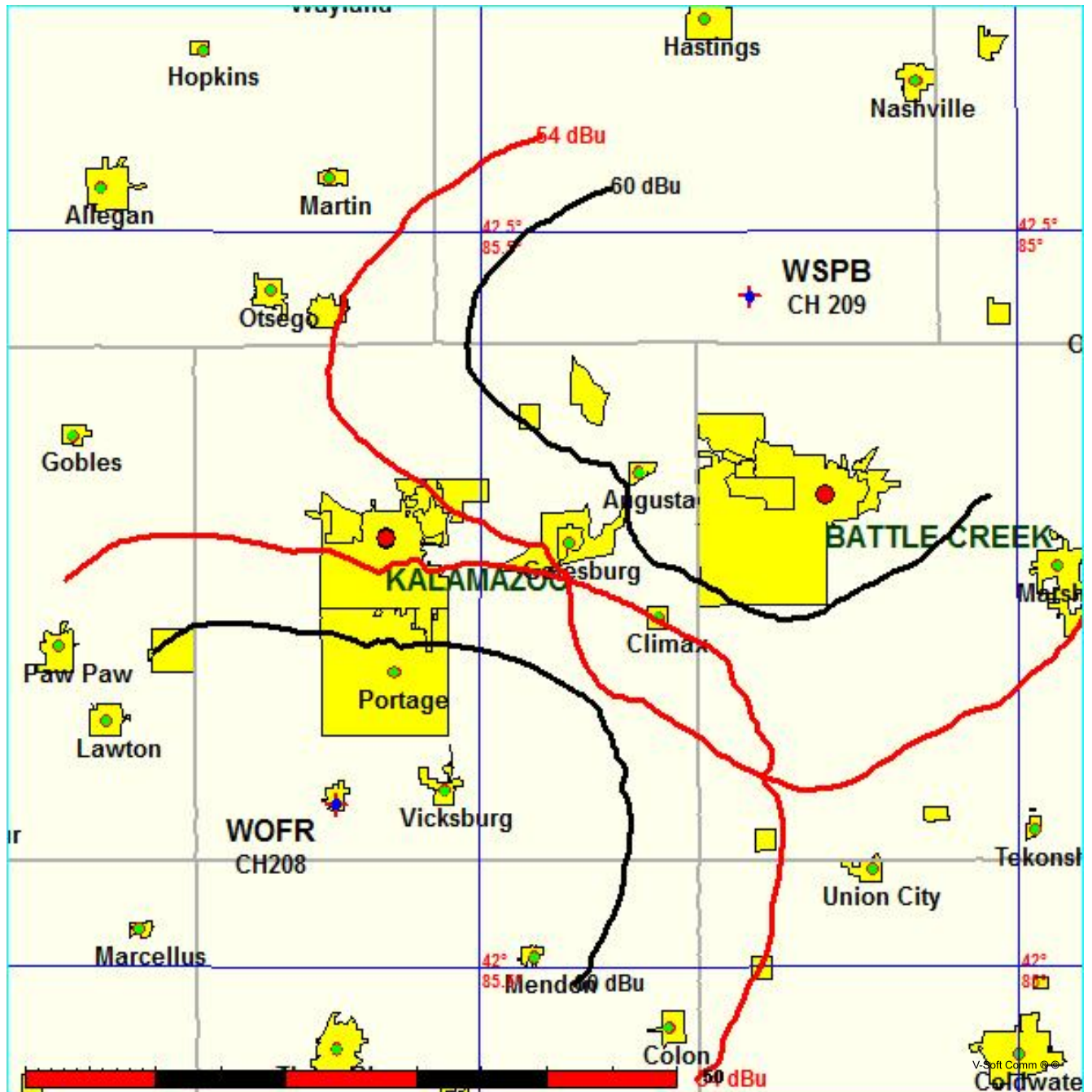


Exhibit 18.7 - Protection to WOFR(FM) - Schoolcraft, MI

01-21-2014

Terrain Data: USGS 03 SEC

FMOver Analysis

WSPB

WOFR BMLED20130530AMJ

Channel = 209A

Max ERP = 4.5 kW

RCAMSL = 354 M

N. Lat. 42 27 27.0

W. Lng. 85 14 53.0

Protected

60 dBu

Channel = 208B1

Max ERP = 10 kW

RCAMSL = 305 M

N. Lat. 42 06 38.0

W. Lng. 85 37 57.0

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
159.0	004.5000	0079.5	023.8	067.7	008.1112	0044.6	043.4	49.31	
160.0	004.5000	0079.9	023.9	067.8	008.1318	0044.6	043.0	49.46	
161.0	004.5000	0080.2	023.9	067.8	008.1420	0044.6	042.6	49.60	
162.0	004.5000	0081.0	024.0	067.9	008.1768	0044.7	042.1	49.76	
163.0	004.5000	0082.0	024.1	068.1	008.2167	0044.7	041.7	49.93	
164.0	004.5000	0082.2	024.2	068.1	008.2156	0044.7	041.3	50.07	
165.0	004.5000	0083.1	024.3	068.2	008.2445	0044.7	040.9	50.24	
166.0	004.5000	0084.5	024.5	068.4	008.3023	0044.7	040.4	50.43	
167.0	004.5000	0085.4	024.6	068.5	008.3332	0044.7	040.0	50.60	
168.0	004.5000	0086.0	024.7	068.5	008.3387	0044.7	039.5	50.76	
169.0	004.5000	0086.2	024.7	068.4	008.3182	0044.7	039.1	50.90	
170.0	004.5000	0086.6	024.8	068.4	008.3069	0044.7	038.7	51.05	
171.0	004.4105	0087.5	024.8	068.2	008.2684	0044.7	038.2	51.18	
172.0	004.3218	0088.0	024.7	068.0	008.2065	0044.7	037.8	51.29	
173.0	004.2340	0089.0	024.8	067.9	008.1651	0044.7	037.4	51.43	
174.0	004.1472	0089.8	024.8	067.7	008.1095	0044.6	037.0	51.55	
175.0	004.0612	0089.8	024.6	067.3	008.0026	0044.6	036.6	51.63	
176.0	003.9762	0089.1	024.4	066.8	007.8511	0044.5	036.3	51.67	
177.0	003.8921	0088.9	024.3	066.4	007.7233	0044.4	035.9	51.71	
178.0	003.8088	0088.9	024.2	065.9	007.6021	0044.3	035.6	51.74	
179.0	003.7264	0088.8	024.0	065.5	007.4740	0044.0	035.2	51.76	
180.0	003.6450	0088.3	023.8	064.9	007.3187	0043.9	034.9	51.76	
181.0	003.5644	0088.0	023.7	064.4	007.1689	0043.7	034.6	51.76	
182.0	003.4848	0087.6	023.5	063.8	007.0154	0043.6	034.3	51.77	
183.0	003.4061	0087.1	023.3	063.2	006.8521	0043.6	034.1	51.76	
184.0	003.3282	0086.7	023.2	062.6	006.6894	0043.5	033.8	51.75	
185.0	003.2513	0085.7	022.9	061.9	006.4960	0043.5	033.6	51.71	
186.0	003.1752	0084.5	022.6	061.1	006.2955	0043.5	033.4	51.64	
187.0	003.1000	0084.3	022.5	060.5	006.1387	0043.5	033.2	51.62	
188.0	003.0258	0084.4	022.4	060.0	005.9981	0043.4	032.9	51.61	
189.0	002.9525	0084.4	022.2	059.4	005.8746	0043.4	032.7	51.61	
190.0	002.8800	0084.5	022.1	058.8	005.7521	0043.4	032.5	51.61	
191.0	002.8085	0084.4	022.0	058.1	005.6206	0043.4	032.3	51.58	
192.0	002.7378	0084.8	021.9	057.5	005.5040	0043.4	032.1	51.58	
193.0	002.6680	0084.8	021.8	056.9	005.3757	0043.3	031.9	51.55	
194.0	002.5992	0084.4	021.6	056.2	005.2345	0043.3	031.8	51.48	

Exhibit 18.7 - Protection to WOFR(FM) - Schoolcraft, MI

FMOver Analysis

Page # 2

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
195.0	002.5313	0084.6	021.5	055.5	005.1096	0043.3	031.6	51.45
196.0	002.4642	0086.1	021.5	055.1	005.0198	0043.3	031.3	51.49
197.0	002.3981	0087.9	021.6	054.6	004.9363	0043.3	031.0	51.56
198.0	002.3328	0088.9	021.6	054.1	004.8268	0043.3	030.8	51.56
199.0	002.2684	0090.5	021.6	053.5	004.7313	0043.3	030.6	51.60
200.0	002.2050	0091.3	021.6	052.9	004.6113	0043.3	030.4	51.57
201.0	002.1424	0091.7	021.5	052.2	004.4840	0043.3	030.3	51.51
202.0	002.0808	0091.6	021.3	051.4	004.3472	0043.3	030.2	51.40
203.0	002.0201	0091.0	021.1	050.6	004.2028	0043.3	030.3	51.25
204.0	001.9602	0090.8	020.9	049.8	004.0729	0043.3	030.2	51.12
205.0	001.9012	0090.2	020.7	049.0	003.9504	0043.3	030.3	50.97
206.0	001.8432	0089.3	020.4	048.2	003.8281	0043.4	030.4	50.78
207.0	001.7860	0088.0	020.1	047.4	003.7057	0043.4	030.5	50.57
208.0	001.7298	0086.0	019.7	046.5	003.5810	0043.4	030.8	50.29
209.0	001.6745	0084.5	019.4	045.7	003.4673	0043.4	031.0	50.05
210.0	001.6200	0081.3	018.8	044.9	003.3486	0043.3	031.5	49.69
211.0	001.5665	0078.2	018.3	044.1	003.2534	0043.3	031.9	49.37
212.0	001.5138	0075.7	017.8	043.3	003.1688	0043.3	032.3	49.08
213.0	001.4620	0073.9	017.4	042.7	003.0930	0043.3	032.6	48.84
214.0	001.4112	0073.0	017.1	042.1	003.0256	0043.3	032.9	48.64
215.0	001.3613	0075.0	017.2	041.6	002.9698	0043.3	032.7	48.60
216.0	001.3122	0076.2	017.2	041.0	002.9117	0043.3	032.7	48.53
217.0	001.2641	0076.8	017.1	040.5	002.8529	0043.3	032.8	48.40
218.0	001.2168	0077.2	017.0	040.0	002.7958	0043.3	032.9	48.27
219.0	001.1704	0077.9	016.9	039.5	002.7452	0043.2	033.0	48.15
220.0	001.1250	0078.1	016.7	039.0	002.6961	0043.2	033.2	48.00
221.0	001.1686	0078.6	016.9	038.4	002.6461	0043.1	032.9	48.00
222.0	001.2131	0079.4	017.2	037.9	002.5942	0043.2	032.7	48.02
223.0	001.2583	0079.0	017.3	037.3	002.5427	0043.1	032.6	47.97
224.0	001.3044	0079.2	017.5	036.8	002.4897	0043.0	032.4	47.93
225.0	001.3514	0079.4	017.7	036.2	002.4356	0043.1	032.3	47.90
226.0	001.3991	0079.7	017.9	035.6	002.3805	0043.1	032.1	47.87
227.0	001.4477	0079.0	018.0	035.0	002.3284	0043.2	032.1	47.80
228.0	001.4971	0078.5	018.1	034.4	002.2760	0043.3	032.1	47.73
229.0	001.5474	0077.3	018.1	033.9	002.2276	0043.4	032.2	47.62
230.0	001.5985	0077.1	018.2	033.3	002.1745	0043.4	032.1	47.54
231.0	001.6575	0077.6	018.5	032.6	002.1164	0043.4	032.0	47.49
232.0	001.7175	0077.9	018.7	031.9	002.0590	0043.5	031.9	47.42
233.0	001.7787	0077.9	018.9	031.3	002.0039	0043.6	031.8	47.33
234.0	001.8409	0078.4	019.1	030.5	001.9456	0043.6	031.8	47.24
235.0	001.9042	0078.1	019.2	029.9	001.8944	0043.6	031.8	47.13
236.0	001.9685	0077.4	019.3	029.3	001.8554	0043.6	031.9	46.99
237.0	002.0339	0076.7	019.4	028.7	001.8171	0043.5	032.0	46.85
238.0	002.1004	0076.1	019.4	028.1	001.7791	0043.4	032.0	46.70
239.0	002.1680	0075.7	019.5	027.5	001.7402	0043.2	032.1	46.53
240.0	002.2366	0075.0	019.6	026.9	001.7048	0043.1	032.3	46.37
241.0	002.3542	0074.4	019.8	026.2	001.6630	0042.9	032.3	46.19
242.0	002.4749	0074.3	020.0	025.5	001.6181	0042.7	032.3	46.03
243.0	002.5985	0074.1	020.2	024.8	001.5742	0042.5	032.4	45.85
244.0	002.7252	0073.8	020.4	024.1	001.5325	0042.3	032.4	45.67
245.0	002.8549	0073.5	020.6	023.4	001.4914	0042.1	032.5	45.49

Exhibit 18.7 - Protection to WOFR(FM) - Schoolcraft, MI

FMOver Analysis

Page # 3

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
246.0	002.9875	0073.1	020.8	022.7	001.4530	0042.0	032.6	45.29
247.0	003.1233	0072.9	021.0	022.0	001.4134	0041.9	032.7	45.11
248.0	003.2620	0072.2	021.1	021.4	001.3794	0042.2	032.9	44.99
249.0	003.4037	0071.8	021.3	020.7	001.3436	0042.9	033.1	44.96
250.0	003.5484	0071.9	021.5	020.0	001.3042	0044.2	033.2	45.02
251.0	003.6385	0072.1	021.6	019.4	001.3032	0044.9	033.4	45.08
252.0	003.7297	0072.0	021.8	018.9	001.3032	0045.2	033.6	45.03
253.0	003.8221	0072.2	021.9	018.3	001.3032	0045.2	033.9	44.95
254.0	003.9155	0072.2	022.0	017.7	001.3032	0045.2	034.1	44.84
255.0	004.0101	0072.2	022.2	017.2	001.3032	0045.0	034.3	44.72
256.0	004.1058	0071.7	022.2	016.8	001.3032	0044.6	034.6	44.52
257.0	004.2027	0070.7	022.2	016.5	001.3032	0044.1	035.0	44.29
258.0	004.3007	0069.4	022.1	016.3	001.3032	0043.8	035.4	44.07
259.0	004.3998	0068.1	022.1	016.1	001.3032	0043.5	035.7	43.88
260.0	004.5000	0067.1	022.0	015.9	001.3032	0043.3	036.1	43.70
261.0	004.4471	0066.5	021.9	015.8	001.3032	0043.3	036.5	43.54
262.0	004.3944	0066.3	021.8	015.7	001.3032	0043.2	036.9	43.39
263.0	004.3421	0066.2	021.7	015.6	001.3032	0043.2	037.3	43.24
264.0	004.2901	0066.1	021.6	015.4	001.3032	0043.1	037.6	43.09
265.0	004.2384	0065.9	021.5	015.4	001.3032	0043.1	038.0	42.95
266.0	004.1870	0065.5	021.4	015.4	001.3032	0043.1	038.4	42.80
267.0	004.1360	0065.1	021.3	015.3	001.3032	0043.1	038.8	42.66
268.0	004.0852	0064.8	021.2	015.3	001.3032	0043.1	039.2	42.52
269.0	004.0348	0064.8	021.1	015.2	001.3032	0043.1	039.6	42.39
270.0	003.9847	0064.8	021.1	015.2	001.3032	0043.1	039.9	42.25
271.0	003.8221	0064.8	020.9	015.3	001.3032	0043.1	040.4	42.12
272.0	003.6628	0064.8	020.7	015.5	001.3032	0043.2	040.8	41.99
273.0	003.5070	0064.8	020.4	015.7	001.3032	0043.2	041.2	41.87
274.0	003.3546	0064.6	020.2	015.9	001.3032	0043.3	041.6	41.75
275.0	003.2055	0064.6	020.0	016.1	001.3032	0043.5	041.9	41.66
276.0	003.0598	0064.2	019.7	016.4	001.3032	0044.0	042.3	41.61
277.0	002.9176	0063.7	019.4	016.7	001.3032	0044.6	042.7	41.58
278.0	002.7787	0063.3	019.1	017.0	001.3032	0044.9	043.1	41.51

Exhibit 18.7 - Protection to WOFR(FM) - Schoolcraft, MI

01-21-2014 Terrain Data: USGS 03 SEC FMOver Analysis

WOFR BMLED20130530AMJ

WSPB

Channel = 208B1
Max ERP = 10 kW
RCAMSL = 305 M
N. Lat. 42 06 38.0
W. Lng. 85 37 57.0
Protected
60 dBu

Channel = 209A
Max ERP = 4.5 kW
RCAMSL = 354 M
N. Lat. 42 27 27.0
W. Lng. 85 14 53.0
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
339.0	004.2706	0026.3	014.4	235.8	001.9552	0077.6	044.5	46.80	
340.0	004.0960	0026.3	014.3	235.5	001.9382	0077.8	044.3	46.85	
341.0	003.9552	0026.7	014.1	235.3	001.9228	0078.0	044.1	46.92	
342.0	003.8168	0027.3	014.0	235.0	001.9069	0078.1	043.9	46.97	
343.0	003.6808	0027.8	013.9	234.8	001.8909	0078.2	043.7	47.01	
344.0	003.5474	0028.2	013.8	234.5	001.8746	0078.3	043.5	47.06	
345.0	003.4164	0029.1	013.6	234.3	001.8578	0078.4	043.3	47.09	
346.0	003.2879	0029.5	013.5	234.0	001.8406	0078.4	043.2	47.12	
347.0	003.1618	0029.8	013.4	233.7	001.8234	0078.2	043.0	47.13	
348.0	003.0382	0030.1	013.3	233.5	001.8077	0078.2	042.8	47.15	
349.0	002.9171	0030.5	013.2	233.3	001.7945	0078.1	042.6	47.17	
350.0	002.7984	0030.9	013.2	233.1	001.7819	0077.9	042.5	47.20	
351.0	002.7009	0031.5	013.2	232.9	001.7721	0077.9	042.3	47.25	
352.0	002.6051	0031.9	013.1	232.7	001.7599	0078.0	042.1	47.29	
353.0	002.5110	0032.6	013.1	232.5	001.7505	0078.0	041.9	47.35	
354.0	002.4187	0033.1	013.1	232.4	001.7390	0078.0	041.7	47.40	
355.0	002.3281	0033.7	013.1	232.2	001.7270	0078.0	041.5	47.44	
356.0	002.2392	0034.3	013.1	232.0	001.7157	0077.9	041.3	47.47	
357.0	002.1520	0034.9	013.0	231.8	001.7026	0077.8	041.2	47.50	
358.0	002.0666	0035.4	013.0	231.5	001.6888	0077.8	041.0	47.52	
359.0	001.9829	0035.7	012.9	231.2	001.6724	0077.7	040.9	47.53	
000.0	001.9010	0036.0	012.8	231.0	001.6551	0077.6	040.8	47.51	
001.0	001.8361	0036.3	012.8	230.7	001.6393	0077.4	040.6	47.51	
002.0	001.7724	0036.5	012.7	230.4	001.6228	0077.4	040.5	47.51	
003.0	001.7098	0036.8	012.6	230.1	001.6068	0077.2	040.4	47.50	
004.0	001.6484	0037.0	012.6	229.9	001.5909	0077.0	040.3	47.48	
005.0	001.5880	0037.3	012.5	229.6	001.5762	0077.0	040.2	47.48	
006.0	001.5288	0037.7	012.5	229.3	001.5620	0077.1	040.0	47.50	
007.0	001.4707	0038.0	012.4	229.0	001.5469	0077.3	039.9	47.51	
008.0	001.4138	0038.2	012.3	228.7	001.5312	0077.7	039.9	47.54	
009.0	001.3579	0038.5	012.2	228.4	001.5159	0078.1	039.8	47.57	
010.0	001.3032	0038.9	012.2	228.1	001.5011	0078.4	039.7	47.60	
011.0	001.3032	0039.6	012.3	227.9	001.4937	0078.6	039.5	47.68	

Exhibit 18.7 - Protection to WOFR(FM) - Schoolcraft, MI

FMOver Analysis

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Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
012.0	001.3032	0040.9	012.5	227.8	001.4894	0078.6	039.2	47.79
013.0	001.3032	0042.2	012.7	227.8	001.4848	0078.7	038.9	47.90
014.0	001.3032	0042.7	012.8	227.5	001.4742	0078.8	038.7	47.96
015.0	001.3032	0043.0	012.8	227.3	001.4622	0078.9	038.6	48.00
016.0	001.3032	0043.4	012.9	227.1	001.4504	0079.0	038.4	48.04
017.0	001.3032	0044.9	013.1	226.9	001.4442	0079.1	038.1	48.16
018.0	001.3032	0045.2	013.1	226.7	001.4312	0079.2	037.9	48.20
019.0	001.3032	0045.1	013.1	226.3	001.4160	0079.5	037.8	48.22
020.0	001.3032	0044.2	013.0	225.9	001.3965	0079.7	037.9	48.17
021.0	001.3579	0042.6	012.9	225.6	001.3784	0079.6	037.9	48.11
022.0	001.4138	0041.9	012.9	225.3	001.3637	0079.5	037.8	48.09
023.0	001.4707	0042.0	013.0	225.0	001.3526	0079.4	037.6	48.13
024.0	001.5288	0042.3	013.2	224.8	001.3414	0079.3	037.3	48.19
025.0	001.5880	0042.5	013.3	224.5	001.3294	0079.3	037.1	48.25
026.0	001.6484	0042.8	013.5	224.3	001.3170	0079.3	036.9	48.30
027.0	001.7098	0043.1	013.7	224.0	001.3045	0079.2	036.6	48.35
028.0	001.7724	0043.4	013.8	223.7	001.2910	0079.1	036.4	48.39
029.0	001.8361	0043.6	014.0	223.4	001.2767	0079.0	036.2	48.42
030.0	001.9010	0043.6	014.1	223.1	001.2615	0079.0	036.0	48.45
031.0	001.9829	0043.6	014.3	222.7	001.2461	0079.3	035.8	48.51
032.0	002.0666	0043.5	014.4	222.4	001.2300	0079.6	035.7	48.56
033.0	002.1520	0043.4	014.5	222.0	001.2136	0079.4	035.5	48.56
034.0	002.2392	0043.4	014.7	221.6	001.1967	0079.2	035.3	48.55
035.0	002.3281	0043.2	014.8	221.2	001.1793	0078.8	035.2	48.51
036.0	002.4187	0043.1	014.9	220.8	001.1616	0078.5	035.0	48.47
037.0	002.5110	0043.1	015.0	220.4	001.1436	0078.2	034.9	48.44
038.0	002.6051	0043.2	015.2	220.0	001.1253	0078.1	034.7	48.44
039.0	002.7009	0043.2	015.3	219.6	001.1445	0078.2	034.5	48.59
040.0	002.7984	0043.3	015.5	219.1	001.1650	0078.0	034.4	48.72
041.0	002.9074	0043.3	015.7	218.7	001.1863	0077.8	034.2	48.84
042.0	003.0184	0043.3	015.8	218.2	001.2084	0077.4	034.1	48.94
043.0	003.1315	0043.3	016.0	217.7	001.2314	0077.0	033.9	49.05
044.0	003.2467	0043.4	016.2	217.2	001.2553	0076.8	033.8	49.17
045.0	003.3640	0043.4	016.3	216.7	001.2799	0076.6	033.7	49.29
046.0	003.5046	0043.4	016.5	216.1	001.3058	0076.2	033.5	49.40
047.0	003.6482	0043.4	016.7	215.6	001.3326	0075.9	033.4	49.51
048.0	003.7946	0043.4	016.9	215.0	001.3601	0075.0	033.3	49.54
049.0	003.9438	0043.3	017.1	214.5	001.3885	0073.8	033.2	49.53
050.0	004.0960	0043.3	017.3	213.9	001.4176	0073.0	033.1	49.57
051.0	004.2706	0043.3	017.4	213.3	001.4481	0073.2	033.0	49.74
052.0	004.4489	0043.3	017.6	212.7	001.4795	0074.6	032.9	50.03
053.0	004.6308	0043.3	017.8	212.0	001.5118	0075.6	032.8	50.27
054.0	004.8164	0043.3	018.0	211.4	001.5447	0077.2	032.8	50.56
055.0	005.0056	0043.3	018.2	210.8	001.5784	0078.8	032.7	50.86
056.0	005.1984	0043.3	018.4	210.1	001.6127	0080.9	032.7	51.20
057.0	005.3949	0043.3	018.6	209.5	001.6480	0083.2	032.7	51.54
058.0	005.5950	0043.4	018.8	208.8	001.6839	0084.9	032.7	51.82
059.0	005.7988	0043.5	018.9	208.2	001.7207	0085.8	032.7	52.02
060.0	006.0062	0043.4	019.1	207.5	001.7570	0086.8	032.7	52.20
061.0	006.2616	0043.5	019.3	206.8	001.7964	0088.4	032.7	52.45
062.0	006.5222	0043.5	019.5	206.1	001.8359	0089.1	032.8	52.61

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)		Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
063.0	006.7881	0043.5	019.7		205.4	001.8759	0089.8	032.8	52.75
064.0	007.0594	0043.6	019.9		204.7	001.9172	0090.4	032.9	52.89
065.0	007.3359	0043.9	020.2		204.0	001.9610	0090.8	032.9	53.00
066.0	007.6178	0044.3	020.5		203.2	002.0082	0090.8	032.9	53.09
067.0	007.9050	0044.6	020.7		202.4	002.0540	0091.3	033.0	53.21
068.0	008.1975	0044.7	020.9		201.7	002.0968	0091.7	033.1	53.28
069.0	008.4953	0044.8	021.2		201.0	002.1404	0091.7	033.2	53.31
070.0	008.7984	0044.8	021.3		200.4	002.1801	0091.6	033.4	53.30
071.0	008.9151	0044.3	021.3		200.1	002.2011	0091.3	033.7	53.17
072.0	009.0326	0044.0	021.3		199.7	002.2242	0091.1	034.0	53.06
073.0	009.1508	0043.7	021.3		199.3	002.2490	0090.9	034.3	52.95
074.0	009.2698	0043.7	021.3		198.9	002.2761	0090.4	034.6	52.83
075.0	009.3896	0044.2	021.5		198.3	002.3156	0089.2	034.8	52.70
076.0	009.5102	0044.3	021.6		197.8	002.3447	0088.7	035.1	52.58
077.0	009.6315	0043.9	021.6		197.5	002.3622	0088.6	035.4	52.45
078.0	009.7535	0043.8	021.6		197.2	002.3864	0088.2	035.7	52.32
079.0	009.8764	0044.0	021.7		196.7	002.4155	0087.4	036.0	52.16
080.0	010.0000	0043.6	021.7		196.5	002.4301	0086.9	036.3	51.99
081.0	010.0000	0044.2	021.8		196.0	002.4612	0086.2	036.6	51.84
082.0	010.0000	0045.3	022.1		195.4	002.5012	0085.1	036.9	51.70
083.0	010.0000	0045.5	022.2		195.1	002.5228	0084.7	037.2	51.55
084.0	010.0000	0045.3	022.1		195.0	002.5333	0084.6	037.6	51.40
085.0	010.0000	0045.0	022.0		194.9	002.5389	0084.5	038.0	51.24
086.0	010.0000	0044.0	021.8		195.0	002.5284	0084.7	038.4	51.04
087.0	010.0000	0043.9	021.8		194.9	002.5373	0084.6	038.8	50.89
088.0	010.0000	0045.0	022.0		194.4	002.5741	0084.4	039.1	50.82
089.0	010.0000	0046.0	022.3		193.9	002.6070	0084.5	039.4	50.75
090.0	010.0000	0046.2	022.3		193.7	002.6218	0084.5	039.7	50.63
091.0	010.0000	0046.5	022.4		193.4	002.6377	0084.6	040.1	50.52
092.0	010.0000	0046.9	022.5		193.2	002.6534	0084.7	040.5	50.40
093.0	010.0000	0047.1	022.5		193.0	002.6657	0084.8	040.8	50.28
094.0	010.0000	0047.0	022.5		193.0	002.6704	0084.8	041.2	50.13
095.0	010.0000	0047.1	022.5		192.9	002.6766	0084.9	041.6	49.99
096.0	010.0000	0047.0	022.5		192.8	002.6808	0084.9	042.0	49.84
097.0	010.0000	0047.0	022.5		192.8	002.6842	0084.9	042.4	49.69
098.0	010.0000	0047.2	022.6		192.7	002.6906	0084.9	042.8	49.55

Exhibit 18.8 - Protection to CBE(FM) - Windsor, Ontario, Canada

WSPB-App
Bedford, MI
Latitude: 42-27-27 N
Longitude: 085-14-53 W
ERP: 4.50 kW
Channel: 209
Frequency: 89.7 MHz
AMSL Height: 354.0 m
Elevation: 0.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

CBEFM
Windsor, Ont. Canada
19990817CAN
Latitude: 42-09-09 N
Longitude: 082-57-05 W
ERP: 100.00 kW
Channel: 210
Frequency: 89.9 MHz
AMSL Height: 348.0 m
Elevation: 183.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

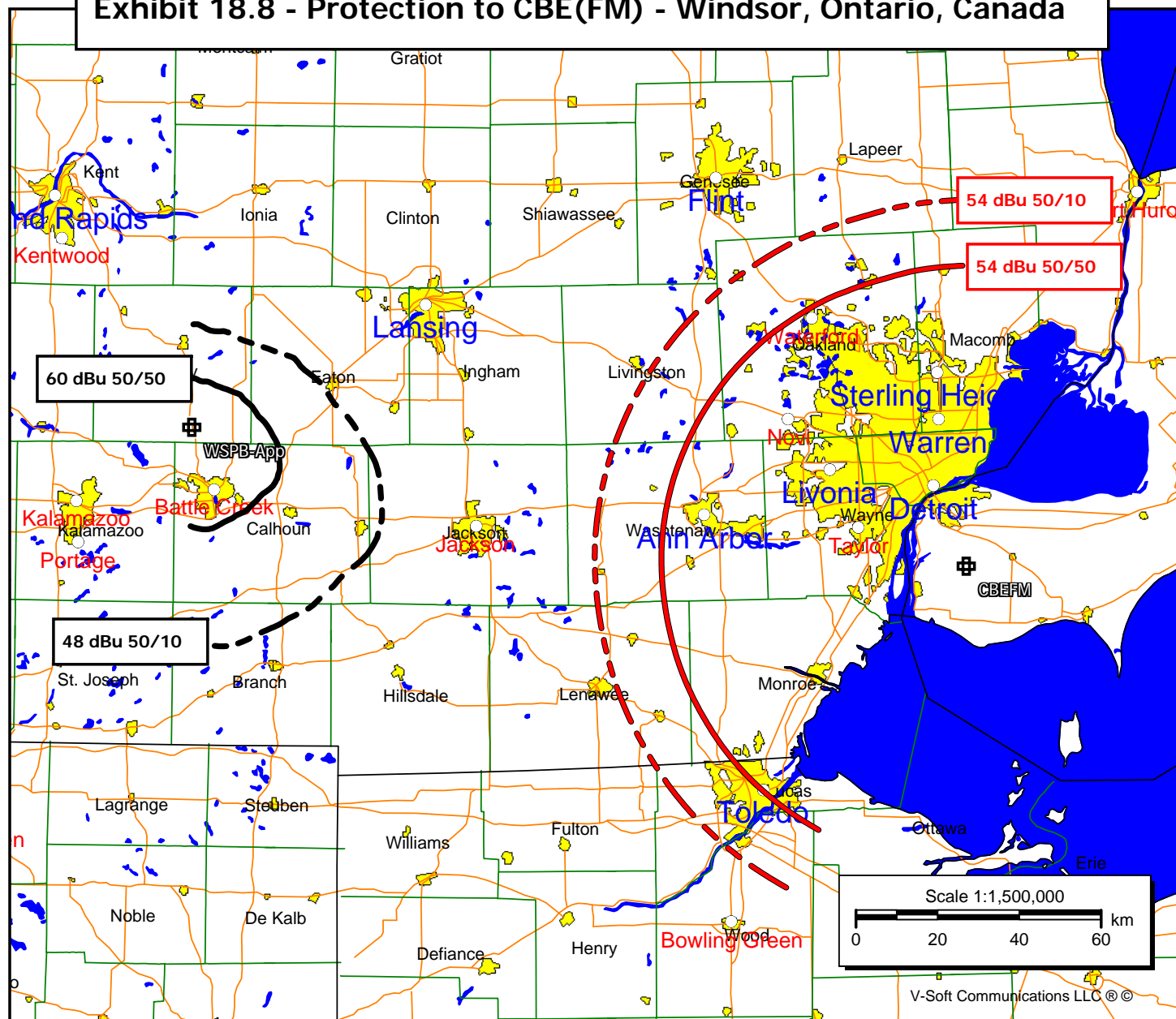


Exhibit 18.9 - Proposed WSPB Directional Antenna Pattern

WSPB

01-19-2014

RMS(V)= .677

Graph is Relative Field

Azi	Field	dbk	kw
000	0.265	-05.003	0.316
010	0.265	-05.003	0.316
020	0.265	-05.003	0.316
030	0.297	-04.013	0.397
040	0.334	-02.993	0.502
050	0.374	-02.010	0.629
060	0.420	-01.003	0.794
070	0.471	-00.007	0.998
080	0.500	00.512	1.125
090	0.600	02.095	1.620
100	0.750	04.033	2.531
110	0.880	05.422	3.485
120	1.000	06.532	4.500
130	1.000	06.532	4.500
140	1.000	06.532	4.500
150	1.000	06.532	4.500
160	1.000	06.532	4.500
170	1.000	06.532	4.500
180	0.900	05.617	3.645
190	0.800	04.594	2.880
200	0.700	03.434	2.205
210	0.600	02.095	1.620
220	0.500	00.512	1.125
230	0.596	02.037	1.598
240	0.705	03.496	2.237
250	0.888	05.500	3.548
260	1.000	06.532	4.500
270	0.941	06.004	3.985
280	0.747	03.999	2.511
290	0.593	01.993	1.582
300	0.471	-00.007	0.998
310	0.374	-02.010	0.629
320	0.297	-04.013	0.397
330	0.265	-05.003	0.316
340	0.265	-05.003	0.316
350	0.265	-05.003	0.316

