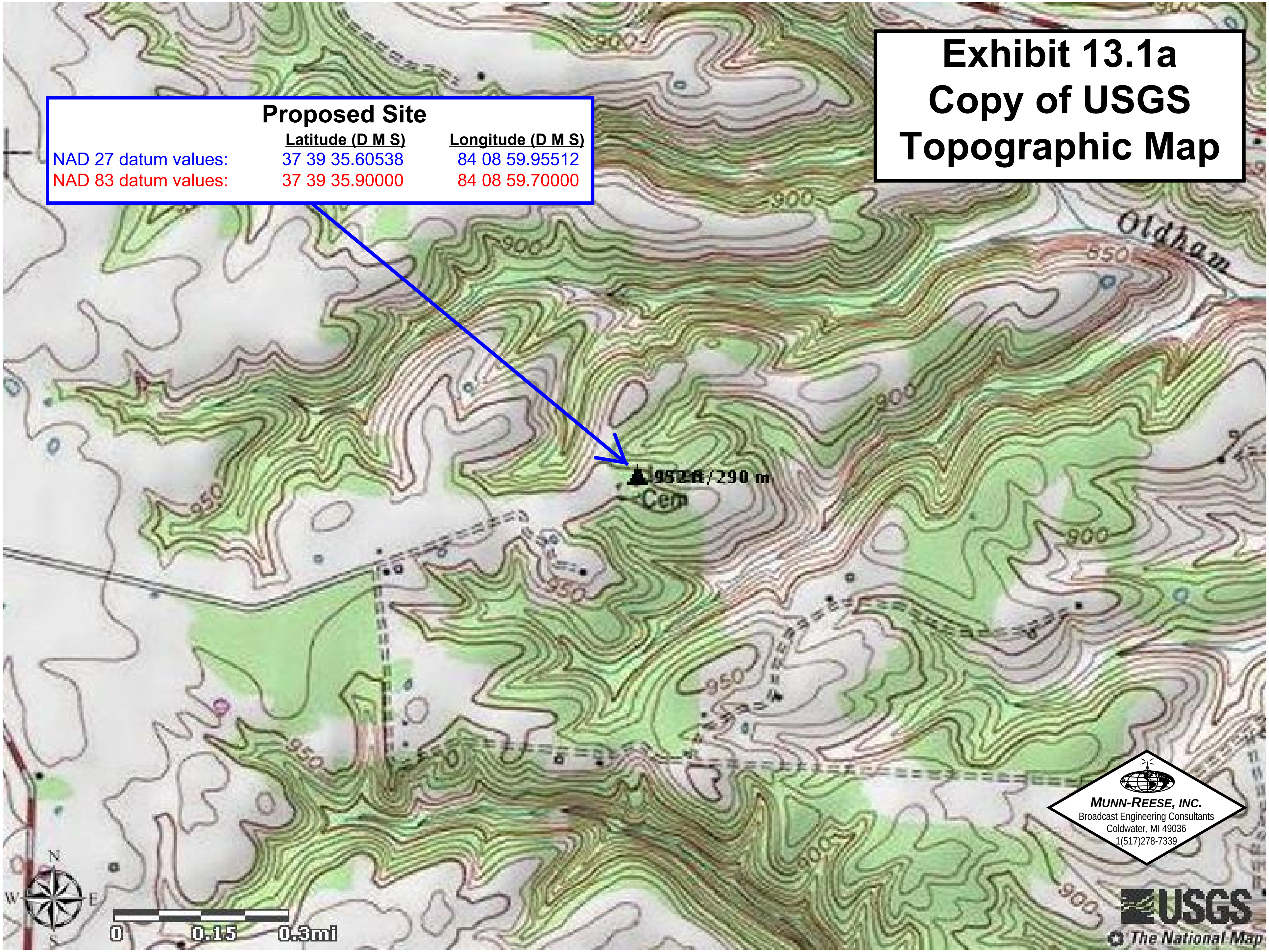


Exhibit 13.1a
Copy of USGS
Topographic Map
Proposed Site
Latitude (D M S) Longitude (D M S)
NAD 27 datum values: 37 39 35.60538 84 08 59.95512
NAD 83 datum values: 37 39 35.90000 84 08 59.70000
952 ft/290 m
Cem
Oldham
900
850
950
N
W
E
S
0
0.15
0.3mi
MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036
1(517)278-7339
USGS
The National Map

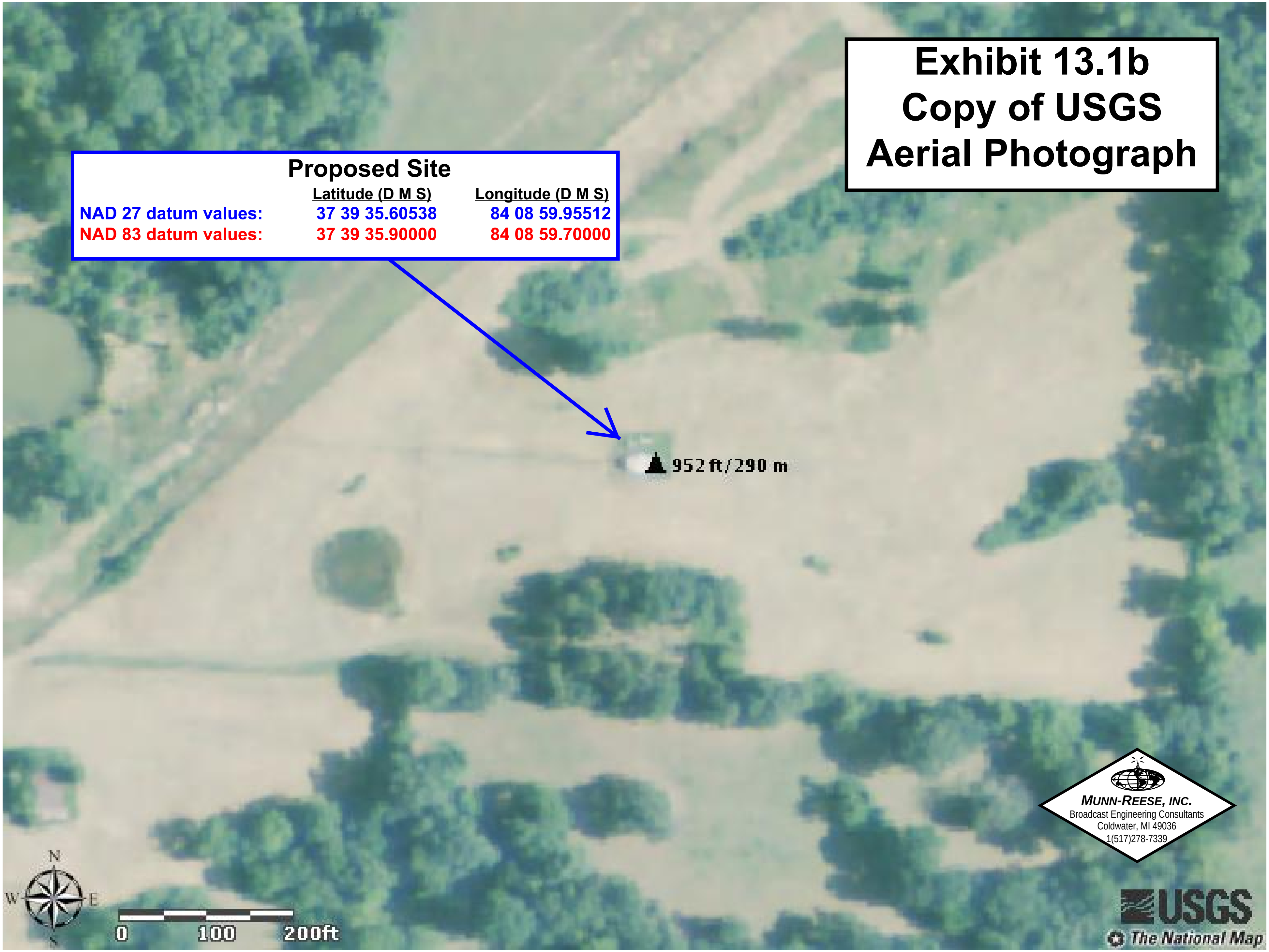
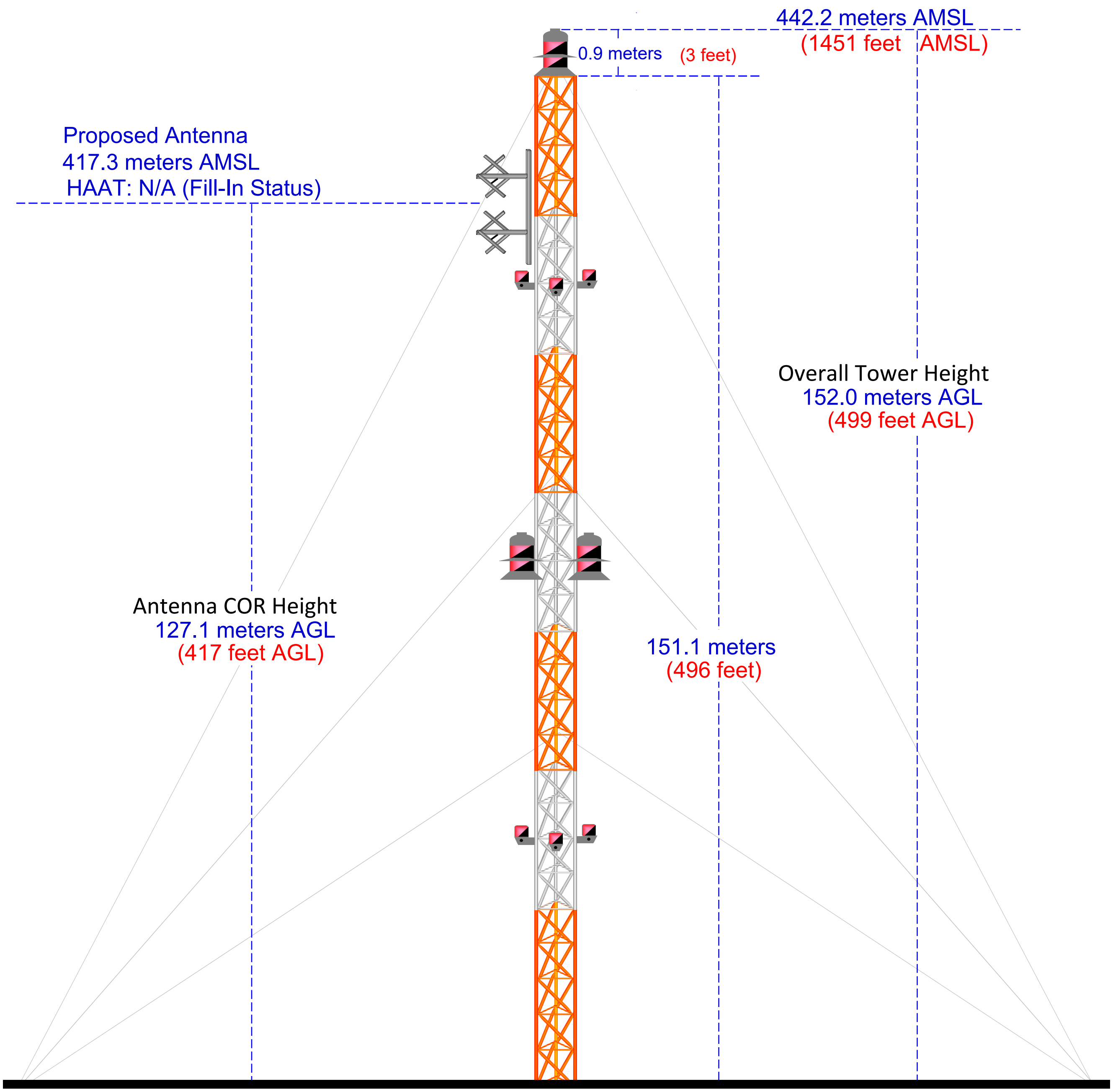


Exhibit 13.1b
Copy of USGS
Aerial Photograph
Proposed Site
Latitude (D M S)
Longitude (D M S)
NAD 27 datum values: 37 39 35.60538 84 08 59.95512
NAD 83 datum values: 37 39 35.90000 84 08 59.70000
952 ft/290 m
MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036
1(517)278-7339
N
W
E
S
0
100
200ft
USGS
The National Map

Exhibit 13.2
Vertical Plan of Antenna System

THE SITE IS LOCATED AT 311 WALTER LAKE ROAD; THE CITY OF WAKO; MADISON COUNTY; THE STATE OF KENTUCKY.	
Antenna Structure Registration No. **1041544 (Pending Modification)**	**Latitude (D M S)** **Longitude (D M S)** NAD 27 datum values: 37 39 35.60538 84 08 59.95512 NAD 83 datum values: 37 39 35.90000 84 08 59.70000



Ground Elevation = 290.2 meters AMSL (952 feet AMSL)

Drawing is <u>not</u> to Scale

Munn–Reese, Inc.
Broadcast Engineering Consultants
Coldwater, MI 49036

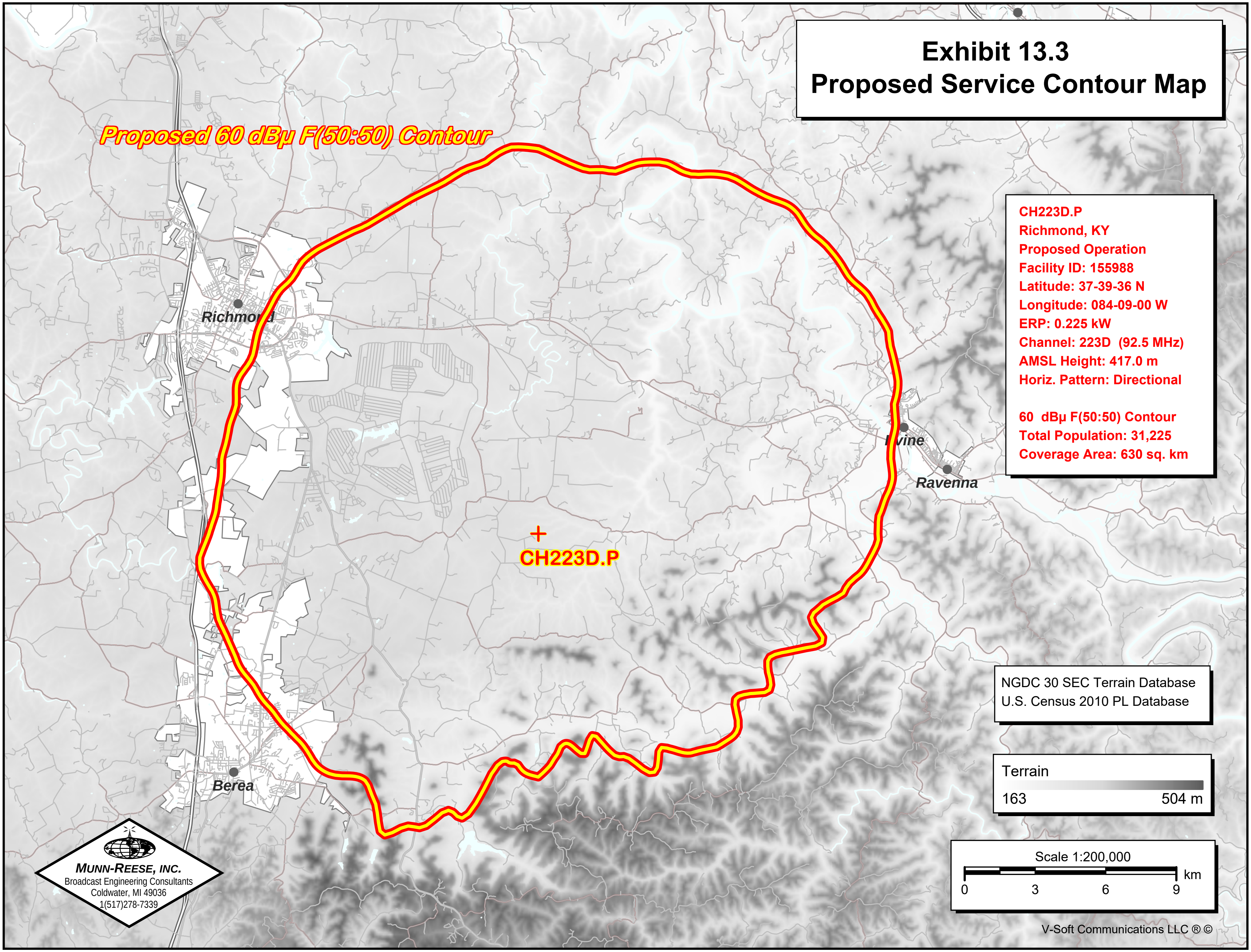


Exhibit 13.3
Proposed Service Contour Map
Proposed 60 dBμ F(50:50) Contour
CH223D.P
Richmond, KY
Proposed Operation
Facility ID: 155988
Latitude: 37-39-36 N
Longitude: 084-09-00 W
ERP: 0.225 kW
Channel: 223D (92.5 MHz)
AMSL Height: 417.0 m
Horiz. Pattern: Directional
60 dBμ F(50:50) Contour
Total Population: 31,225
Coverage Area: 630 sq. km
Richmond
Irvine
Ravenna
Berea
CH223D.P
NGDC 30 SEC Terrain Database
U.S. Census 2010 PL Database
Terrain
163
504 m
Scale 1:200,000
0
3
6
9
km
MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036
1(517)278-7339
V-Soft Communications LLC ® ©

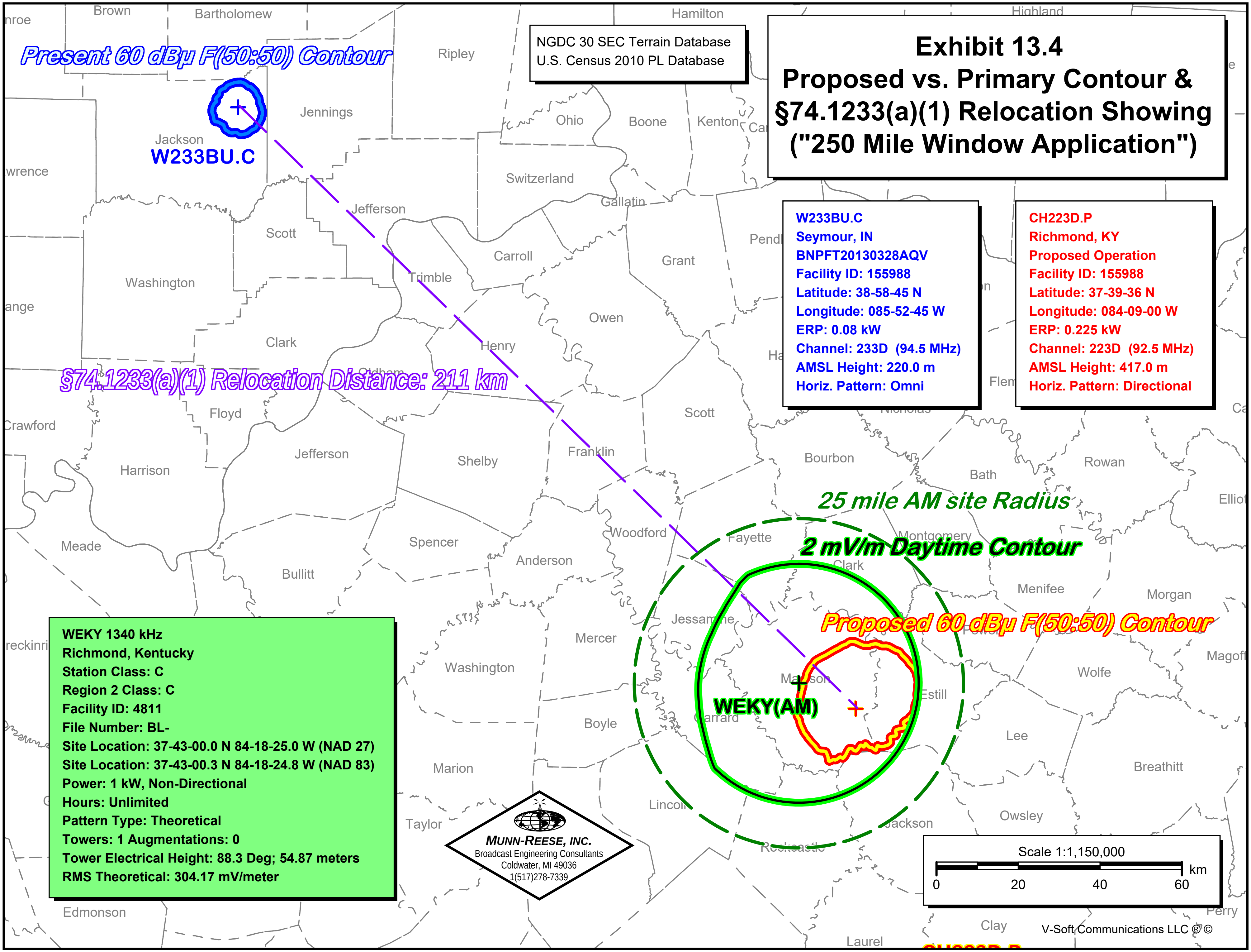


Exhibit 13.4
Proposed vs. Primary Contour &
§74.1233(a)(1) Relocation Showing
("250 Mile Window Application")
NGDC 30 SEC Terrain Database
U.S. Census 2010 PL Database
Present 60 dBμ F(50:50) Contour
W233BU.C
W233BU.C
Seymour, IN
BNPFT20130328AQV
Facility ID: 155988
Latitude: 38-58-45 N
Longitude: 085-52-45 W
ERP: 0.08 kW
Channel: 233D (94.5 MHz)
AMSL Height: 220.0 m
Horiz. Pattern: Omni
CH223D.P
Richmond, KY
Proposed Operation
Facility ID: 155988
Latitude: 37-39-36 N
Longitude: 084-09-00 W
ERP: 0.225 kW
Channel: 223D (92.5 MHz)
AMSL Height: 417.0 m
Horiz. Pattern: Directional
§74.1233(a)(1) Relocation Distance: 211 km
25 mile AM site Radius
2 mV/m Daytime Contour
Proposed 60 dBμ F(50:50) Contour
WEKY(AM)
WEKY 1340 kHz
Richmond, Kentucky
Station Class: C
Region 2 Class: C
Facility ID: 4811
File Number: BL-
Site Location: 37-43-00.0 N 84-18-25.0 W (NAD 27)
Site Location: 37-43-00.3 N 84-18-24.8 W (NAD 83)
Power: 1 kW, Non-Directional
Hours: Unlimited
Pattern Type: Theoretical
Towers: 1 Augmentations: 0
Tower Electrical Height: 88.3 Deg; 54.87 meters
RMS Theoretical: 304.17 mV/meter
MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036
1(517)278-7339
Scale 1:1,150,000
0
20
40
60
km
V-Soft Communications LLC ®©
Brown
Bartholomew
Hamilton
Ripley
Jennings
Jackson
Ohio
Boone
Kenton
Switzerland
Gallatin
Jefferson
Scott
Carroll
Grant
Washington
Trimble
Owen
Clark
Henry
Floyd
Jefferson
Shelby
Franklin
Scott
Bourbon
Bath
Rowan
Harrison
Meade
Spencer
Woodford
Fayette
Montgomery
Clark
Bullitt
Anderson
Menifee
Morgan
Jessamine
Mercer
Washington
Madison
Estill
Wolfe
Boyle
Garrard
Lee
Breathitt
Marion
Lincoln
Owsley
Taylor
Jackson
Edmonson
Clay
Laurel

Exhibit 13.5
Tabulation of Proposed Allocation

REFERENCE CH# 223D - 92.5 MHz, Pwr= 0.225 kW DA, HAAT= 137.8 M, COR= 417 M DISPLAY DATES
37 39 36.0 N. Average Protected F(50-50)= 14.7 km DATA 01-26-16
84 09 00.0 W. Standard Directional SEARCH 01-27-16

CH / CITY	CALL	TYPE	ANT / STATE	AZI / <--	DIST / FILE #	LAT / LNG	PWR(kW) / HAAT(M)	INT(km) / COR(M)	PRO(km) / LICENSEE	*IN* (Overlap	*OUT* in km)
225C1	WLXX	LIC	_CN	332.3	47.67	38 02 22.0	100.000	9.7	70.2	23.0	-23.6*<
Lexington			KY	152.2	BMLH19800902AF	84 24 11.0	259	553	Cumulus Licensing Llc		
222C2	WYGE	LIC	ZCX	166.1	58.35	37 09 01.0	23.500	63.1	42.6	-13.8*<	3.1
London			KY	346.2	BLH20060202ADE	83 59 32.0	223	582	Ethel Huff Broadcasting, L		
221C2	WBVX	LIC	NC_	341.9	61.86	38 11 19.0	32.000	5.7	51.1	40.9	9.7
Carlisle			KY	161.7	BLH20011015AEZ	84 22 13.0	186	460	L.m. Communications Of Ken		
223B	WOFX-FM	LIC	DCN	349.4	164.80	39 06 59.0	16.000	130.9	68.2	18.1	28.4
Cincinnati			OH	169.2	BLH19981209KB	84 30 07.0	264	483	Cumulus Licensing Llc		
223L1	WEIM-LP	LIC	___	68.7	86.76	37 56 24.0	0.018			49.1	27.7
West Liberty			KY	249.3	BLL20150319ABI	83 13 41.0	70	366	Eagle Eye, Inc.		
277A	WXZZ	LIC	_CN	326.8	53.90	38 03 56.0	6.000	23.8	7.1	9.5R	44.4M
Georgetown			KY	146.6	BLH19980929KB	84 29 13.0	100	387	Cumulus Licensing Llc		
276A	WWLT	LIC	_CX	155.8	71.18	37 04 30.0	2.100	23.8	7.1	9.5R	61.7M
Manchester			KY	336.0	BMLED20130128AEB	83 49 14.0	172	530	Educational Media Foundati		
277D	W277AA	LIC	DCN	214.2	72.77	37 07 03.0	0.250	23.8	7.1	9.5R	63.3M
Somerset			KY	33.9	BLFT19931123TF	84 36 42.0	89	388	Western Kentucky Universit		
Translator For WDCLFM, Somerset, KY											
224A	WHVE	LIC	ZCX	234.7	111.28	37 04 40.0	6.000	34.0	22.7	63.7	68.2
Russell Springs			KY	54.1	BMLH20040615ABR	85 10 28.0	100	376	Shoreline Communications,		
223C	WBKR	LIC	_CY	269.6	255.75	37 36 29.0	100.000	173.0	73.1	68.8	135.3
Owensboro			KY	87.8	BLH19870121KD	87 03 15.0	320	453	Townsquare Media Of Evansv		
224A	WMIK-FM	LIC	_CX	165.0	122.60	36 35 39.0	0.350	41.6	27.3	72.1	82.9
Middlesboro			KY	345.2	BLH20110324ABU	83 47 42.0	410	941	Gateway Broadcasting, Inc.		
224D	W224CV	LIC	DV_	120.8	105.17	37 10 16.0	0.010	11.7	8.3	82.1	80.4
Hazard			KY	301.4	BLFT20150714AAU	83 07 49.0	203	623	Philip H. Hayes		
226A	WMKZ	LIC	_C_	213.3	112.99	36 48 29.0	1.450	2.2	28.6	97.7	83.4
Monticello			KY	32.8	BLH19991027ACI	84 50 46.0	206	522	Monticello-wayne County Me		
226C2	WDHR	LIC	_C_	98.2	142.55	37 27 57.0	22.000	6.2	55.1	122.8	86.7
Pikeville			KY	279.2	BLH20040917ABI	82 33 04.0	231	596	East Kentucky Broadcasting		
222A	WZAQ	LIC	_CN	66.3	145.32	38 10 33.0	4.500	41.5	27.1	87.2	93.3
Louisa			KY	247.2	BLH19910530KA	82 37 39.0	115	347	Expression Production Grou		

Terrain database is NGDC 30 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= East Zone, Co to 3rd adjacent.
All separation margins (if shown) include rounding.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
"*"affixed to 'IN' or 'OUT' values = site inside restricted contour.
< = Contour Overlap

Blue Highlighted Text denotes supplemental contour protection studies toward select facilities as included in ***Exhibit 13.6***.

Yellow Highlighted Text denotes the existence of a §74.1204(d) Second/Third Adjacent Channel Given Interference Waiver Request toward WLXX(FM) - Lexington, KY (CH225C1) as noted in ***Exhibit 13.7***. Protection has been based on the worst case calculated 110.3 dBμ F(50:10) Interference Contour, corresponding to the worst case 70.3 dBμ F(50:50) Full Service Protected Contour. Protection has been demonstrated through a downward vertical radiation study. Full protection will be afforded the facility as the interference area will not reach the ground nor a seven meter artificial plane representing a standard two story home when taking into account the downward radiation characteristics of the antenna as supplied by the antenna manufacturer. A copy of the antenna manufacturer specifications has also been included in ***Exhibit 13.8***.

Exhibit 13.6
Contour Protection Studies Toward Select Station(s)

FMCommander Single Allocation Study - 01-27-2016 - NGDC 30 SEC
CH223D.P's Overlaps (In= -13.78 km, Out= 3.1 km)

CH223D.P CH 223 D DA
Lat= 37 39 36.0, Lng= 84 09 00.0
0.225 kW 137.8 m HAAT, 417 m COR
Prot.= 60 dBu, Intef.= 54 dBu

WYGE CH 222 C2 73.215 Z BLH20060202ADE
Lat= 37 09 01.0, Lng= 83 59 32.0
23.5 kW 223 m HAAT, 582 m COR
Prot.= 60 dBu, Intef.= 54 dBu

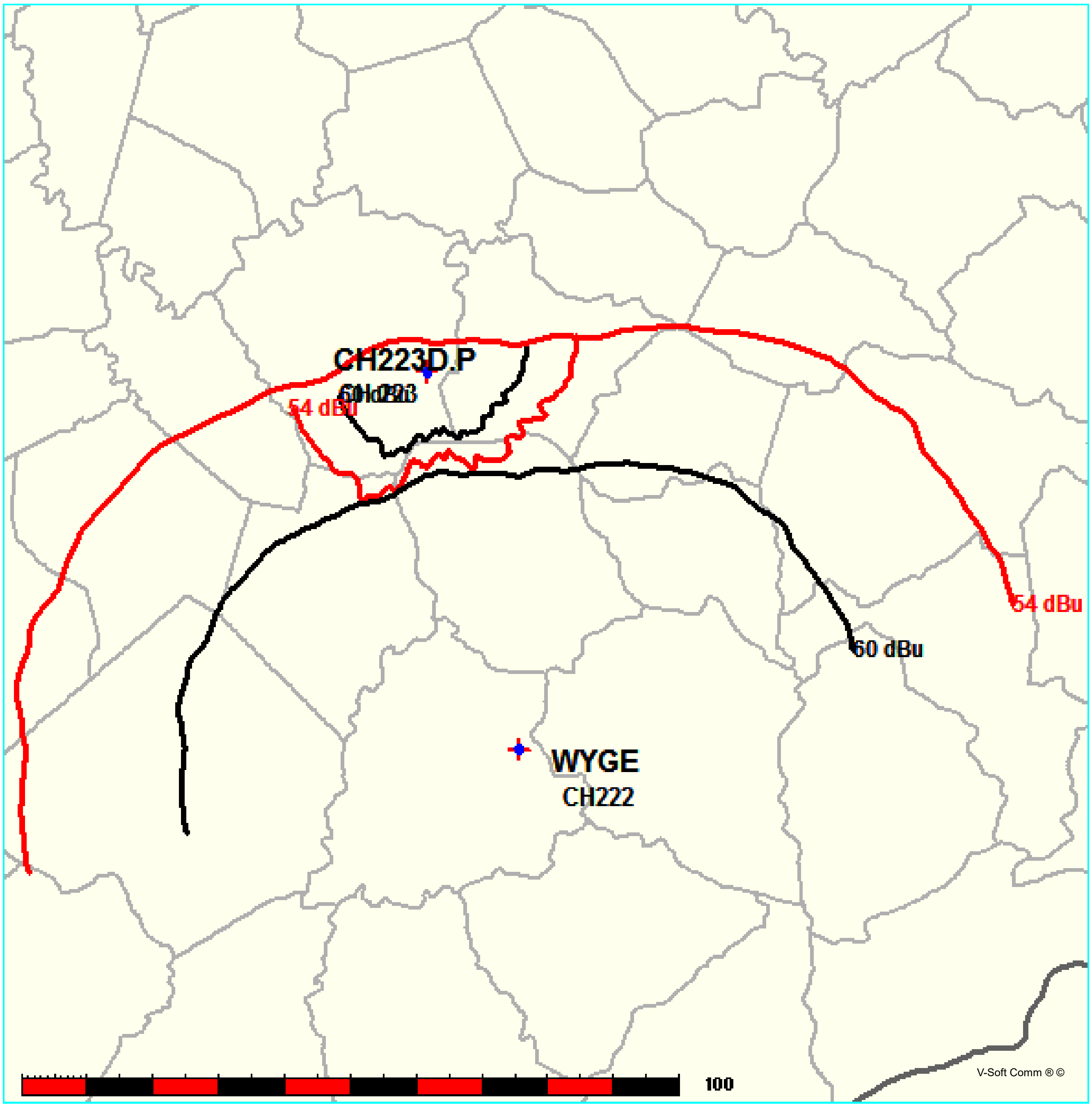


Exhibit 13.6
Contour Protection Studies Toward Select Station(s)

```
01-27-2016      Terrain Data: NGDC 30 SEC    FMOver Analysis

CH223D.P                                    WYGE  BLH20060202ADE

Channel =  223D                             Channel = 222C2
Max ERP = 0.225 kW                          Max ERP = 23.5 kW
RCAMSL =  417 m                             RCAMSL =  582 m
N. Lat. 37 39 36.0                          N. Lat. 37 09 01.0
W. Lng. 84 09 00.0                          W. Lng. 83 59 32.0
Protected                                   Interfering
   60  dBu                                     54  dBu
```

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
123.0	000.2250	0117.5	013.6	357.1	005.8750	0235.4	049.3	58.64*	11.68
124.0	000.2250	0119.0	013.6	357.0	005.8750	0235.6	049.1	58.75*	11.94
125.0	000.2250	0116.7	013.5	356.7	005.8750	0236.5	049.0	58.82*	12.13
126.0	000.2250	0111.7	013.2	356.3	005.8750	0237.4	049.0	58.86*	12.23
127.0	000.2250	0107.0	013.0	355.8	005.8750	0237.8	049.0	58.87*	12.26
128.0	000.2250	0103.3	012.7	355.5	005.8750	0238.2	049.0	58.90*	12.32
129.0	000.2250	0100.7	012.6	355.2	005.8750	0238.6	048.9	58.94*	12.41
130.0	000.2250	0100.3	012.6	355.0	005.8750	0239.0	048.8	59.01*	12.59
131.0	000.2250	0102.8	012.7	354.9	005.8750	0239.1	048.5	59.12*	12.87
132.0	000.2250	0108.1	013.0	355.0	005.8750	0239.0	048.1	59.27*	13.23
133.0	000.2250	0113.9	013.4	355.0	005.8750	0238.9	047.7	59.42*	13.62
134.0	000.2250	0118.2	013.6	355.0	005.8750	0238.9	047.4	59.56*	13.97
135.0	000.2250	0120.4	013.7	354.9	005.8750	0239.2	047.2	59.67*	14.24
136.0	000.2250	0120.9	013.7	354.7	005.8750	0239.6	047.0	59.76*	14.45
137.0	000.2250	0120.4	013.7	354.4	005.8750	0240.1	046.9	59.83*	14.63
138.0	000.2250	0119.6	013.7	354.2	005.8750	0240.8	046.7	59.90*	14.80
139.0	000.2250	0118.9	013.6	353.9	005.8750	0241.3	046.6	59.97*	14.96
140.0	000.2250	0118.1	013.6	353.6	005.8750	0241.8	046.5	60.02*	15.10
141.0	000.2250	0116.7	013.5	353.3	005.8750	0242.1	046.5	60.06*	15.19
142.0	000.2250	0115.3	013.4	353.0	005.8750	0242.4	046.4	60.09*	15.28
143.0	000.2250	0114.0	013.4	352.7	005.8750	0242.6	046.4	60.13*	15.35
144.0	000.2250	0113.1	013.3	352.5	005.8750	0242.8	046.3	60.16*	15.45
145.0	000.2250	0112.4	013.3	352.2	005.8750	0243.1	046.2	60.20*	15.54
146.0	000.2250	0110.8	013.2	351.9	005.8750	0243.6	046.2	60.23*	15.61
147.0	000.2250	0107.4	013.0	351.5	005.8750	0244.2	046.3	60.22*	15.58
148.0	000.2250	0103.6	012.8	351.1	005.8750	0244.7	046.4	60.19*	15.52
149.0	000.2250	0100.3	012.6	350.8	005.8750	0245.0	046.5	60.15*	15.44
150.0	000.2250	0098.3	012.4	350.5	005.8750	0245.1	046.5	60.14*	15.42
151.0	000.2250	0100.3	012.6	350.3	005.8750	0245.1	046.4	60.22*	15.61
152.0	000.2250	0106.1	012.9	350.2	005.8750	0245.1	046.0	60.39*	16.01
153.0	000.2250	0111.9	013.2	350.0	005.8750	0245.2	045.6	60.55*	16.41
154.0	000.2250	0114.5	013.4	349.8	005.8750	0245.2	045.4	60.64*	16.62
155.0	000.2250	0113.0	013.3	349.5	005.8750	0245.3	045.4	60.64*	16.61
156.0	000.2250	0107.5	013.0	349.1	005.8750	0245.7	045.6	60.54*	16.38

Exhibit 13.6
Contour Protection Studies Toward Select Station(s)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	
157.0	000.2250	0100.3	012.6	348.7	005.8750	0246.3	046.0	60.41*	16.08
158.0	000.2250	0094.6	012.2	348.4	005.8750	0247.2	046.3	60.32*	15.85
159.0	000.2250	0091.6	012.0	348.1	005.8750	0248.1	046.5	60.29*	15.80
160.0	000.2250	0090.6	012.0	347.8	005.8750	0249.2	046.5	60.31*	15.87
161.0	000.2250	0088.3	011.8	347.5	005.8750	0250.4	046.6	60.31*	15.87
162.0	000.2250	0082.9	011.5	347.2	005.8750	0251.8	046.9	60.22*	15.69
163.0	000.2250	0076.8	011.1	347.0	005.8750	0253.2	047.3	60.12*	15.44
164.0	000.2250	0071.3	010.7	346.7	005.8750	0254.4	047.7	60.01*	15.20
165.0	000.2250	0070.0	010.6	346.5	005.8750	0255.5	047.7	60.02*	15.23
166.0	000.2250	0072.4	010.8	346.3	005.8750	0256.6	047.6	60.13*	15.50
167.0	000.2250	0076.7	011.1	346.0	005.8750	0257.9	047.3	60.28*	15.90
168.0	000.2250	0081.0	011.4	345.8	005.8750	0259.2	047.0	60.44*	16.31
169.0	000.2250	0080.3	011.3	345.5	005.8750	0260.4	047.1	60.46*	16.37
170.0	000.2250	0077.2	011.1	345.3	005.8750	0261.3	047.3	60.40*	16.24
171.0	000.2250	0073.9	010.9	345.1	005.8750	0262.1	047.5	60.33*	16.09
172.0	000.2250	0071.9	010.7	344.9	005.8750	0262.8	047.7	60.29*	16.00
173.0	000.2250	0071.9	010.7	344.7	005.8750	0263.4	047.7	60.30*	16.03
174.0	000.2250	0073.6	010.9	344.4	005.8750	0264.1	047.6	60.36*	16.18
175.0	000.2250	0078.5	011.2	344.1	005.8750	0264.7	047.3	60.49*	16.53
176.0	000.2250	0081.9	011.4	343.9	005.8750	0265.3	047.2	60.58*	16.76
177.0	000.2250	0086.3	011.7	343.5	005.8750	0265.8	046.9	60.69*	17.03
178.0	000.2250	0089.5	011.9	343.2	005.8750	0266.1	046.8	60.76*	17.21
179.0	000.2250	0092.4	012.1	342.9	005.8750	0266.4	046.7	60.82*	17.36
180.0	000.2250	0095.4	012.3	342.6	005.8750	0266.6	046.6	60.88*	17.50
181.0	000.2250	0094.5	012.2	342.4	005.8750	0266.8	046.7	60.84*	17.40
182.0	000.2250	0093.7	012.2	342.2	005.8750	0267.0	046.8	60.80*	17.30
183.0	000.2250	0092.5	012.1	342.0	005.8750	0267.2	046.9	60.74*	17.17
184.0	000.2250	0090.2	011.9	341.8	005.8750	0267.4	047.1	60.66*	16.98
185.0	000.2250	0086.5	011.7	341.7	005.8750	0267.5	047.4	60.54*	16.69
186.0	000.2250	0085.4	011.6	341.5	005.8750	0267.6	047.6	60.49*	16.56
187.0	000.2250	0085.7	011.7	341.2	005.8750	0267.6	047.6	60.46*	16.49
188.0	000.2250	0084.7	011.6	341.1	005.8750	0267.6	047.8	60.40*	16.34
189.0	000.2250	0085.5	011.6	340.8	005.8750	0267.4	047.8	60.37*	16.27
190.0	000.2250	0089.0	011.9	340.5	005.8750	0267.0	047.8	60.40*	16.32
191.0	000.2250	0094.7	012.2	340.0	005.8750	0266.1	047.6	60.45*	16.44
192.0	000.2250	0106.4	012.9	339.4	005.9507	0264.2	047.1	60.64*	16.89
193.0	000.2250	0118.6	013.6	338.6	006.0352	0261.9	046.6	60.81*	17.30
194.0	000.2250	0127.8	014.1	338.0	006.1069	0259.7	046.3	60.90*	17.50
195.0	000.2250	0130.7	014.3	337.7	006.1508	0258.2	046.4	60.87*	17.42
196.0	000.2250	0128.1	014.1	337.5	006.1665	0257.7	046.6	60.76*	17.13
197.0	000.2250	0123.5	013.9	337.5	006.1709	0257.5	047.0	60.61*	16.78
198.0	000.2250	0121.0	013.8	337.4	006.1853	0257.0	047.2	60.50*	16.50
199.0	000.2250	0123.0	013.9	337.1	006.2220	0255.6	047.3	60.44*	16.35
200.0	000.2250	0128.7	014.2	336.6	006.2795	0253.3	047.3	60.43*	16.30
201.0	000.2250	0133.3	014.4	336.2	006.3332	0250.9	047.2	60.39*	16.18
202.0	000.2250	0134.5	014.5	335.9	006.3664	0249.4	047.4	60.30*	15.97

Exhibit 13.6
Contour Protection Studies Toward Select Station(s)

01-27-2016 Terrain Data: NGDC 30 SEC FMOver Analysis

WYGE BLH20060202ADE	CH223D.P
Channel = 222C2	Channel = 223D
Max ERP = 23.5 kW	Max ERP = 0.225 kW
RCAMSL = 582 m	RCAMSL = 417 m
N. Lat. 37 09 01.0	N. Lat. 37 39 36.0
W. Lng. 83 59 32.0	W. Lng. 84 09 00.0
Protected	Interfering
60 dBu	54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
301.0	016.5816	0221.0	049.1	221.8	000.2250	0117.7	042.2	41.65	
302.0	016.1892	0221.6	048.9	221.8	000.2250	0117.7	041.3	42.02	
303.0	015.8014	0222.9	048.8	221.8	000.2250	0117.7	040.5	42.40	
304.0	015.4184	0224.3	048.7	221.8	000.2250	0117.7	039.6	42.77	
305.0	015.0400	0225.9	048.6	221.9	000.2250	0117.8	038.8	43.16	
306.0	014.6664	0228.2	048.5	221.9	000.2250	0117.8	037.9	43.54	
307.0	014.2974	0230.4	048.5	221.9	000.2250	0117.8	037.1	43.93	
308.0	013.9331	0231.8	048.3	221.8	000.2250	0117.7	036.2	44.32	
309.0	013.5736	0232.5	048.1	221.6	000.2250	0117.5	035.4	44.70	
310.0	013.2188	0232.5	047.9	221.3	000.2250	0117.0	034.5	45.07	
311.0	012.8686	0231.7	047.6	220.8	000.2250	0116.2	033.7	45.41	
312.0	012.5232	0230.5	047.3	220.2	000.2250	0115.0	032.8	45.72	
313.0	012.1824	0229.1	046.9	219.5	000.2250	0113.2	032.0	45.98	
314.0	011.8463	0228.2	046.6	218.8	000.2250	0111.2	031.2	46.23	
315.0	011.5150	0227.7	046.3	218.2	000.2250	0109.1	030.5	46.48	
316.0	011.1883	0227.4	046.1	217.4	000.2250	0107.2	029.7	46.75	
317.0	010.8664	0227.2	045.8	216.7	000.2250	0105.5	029.0	47.04	
318.0	010.5491	0226.7	045.5	215.8	000.2250	0104.6	028.2	47.40	
319.0	010.2366	0226.4	045.2	214.9	000.2250	0104.6	027.5	47.84	
320.0	009.9287	0226.8	045.0	214.0	000.2250	0106.1	026.8	48.43	
321.0	009.6256	0228.0	044.8	213.1	000.2250	0108.6	026.1	49.11	
322.0	009.3271	0230.0	044.7	212.3	000.2250	0111.0	025.4	49.78	
323.0	009.0334	0232.3	044.6	211.4	000.2250	0113.4	024.7	50.45	
324.0	008.7444	0234.7	044.5	210.5	000.2250	0116.8	024.1	51.19	
325.0	008.4600	0236.8	044.3	209.4	000.2204	0124.3	023.4	52.09	
326.0	008.1803	0238.0	044.1	208.1	000.2106	0135.0	022.8	53.05	
327.0	007.9054	0238.1	043.8	206.5	000.1991	0138.2	022.3	53.42	
328.0	007.6351	0237.3	043.5	204.7	000.1865	0132.6	021.8	53.11	
329.0	007.3696	0236.2	043.1	202.8	000.1732	0133.4	021.4	53.17	

Exhibit 13.6
Contour Protection Studies Toward Select Station(s)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
330.0	007.1088	0235.3	042.8	200.8	000.1600	0132.6	021.0	53.06
331.0	006.9801	0234.8	042.6	199.1	000.1505	0123.3	020.6	52.52
332.0	006.8526	0235.2	042.5	197.4	000.1426	0122.1	020.1	52.57
333.0	006.7263	0236.9	042.4	195.8	000.1352	0129.1	019.6	53.19
334.0	006.6012	0240.1	042.5	194.2	000.1283	0129.1	019.1	53.39
335.0	006.4772	0244.6	042.6	192.7	000.1218	0115.6	018.5	52.70
336.0	006.3544	0249.9	042.8	191.2	000.1152	0096.7	017.9	51.35
337.0	006.2328	0255.2	043.0	189.5	000.1102	0087.2	017.4	50.70
338.0	006.1123	0259.5	043.1	187.6	000.1102	0085.3	016.9	50.92
339.0	005.9931	0263.1	043.1	185.4	000.1102	0085.4	016.5	51.28
340.0	005.8750	0266.0	043.2	183.0	000.1102	0092.5	016.1	52.27
341.0	005.8750	0267.5	043.3	180.6	000.1102	0094.9	015.8	52.80
342.0	005.8750	0267.2	043.2	178.0	000.1102	0089.4	015.6	52.46
343.0	005.8750	0266.3	043.2	175.2	000.1102	0079.4	015.4	51.53
344.0	005.8750	0265.0	043.1	172.4	000.1102	0071.5	015.4	50.70
345.0	005.8750	0262.6	042.9	169.6	000.1102	0078.5	015.5	51.43
346.0	005.8750	0258.0	042.7	166.8	000.1102	0075.6	015.7	50.89
347.0	005.8750	0253.0	042.3	164.1	000.1102	0070.9	016.0	50.07
348.0	005.8750	0248.4	042.0	161.6	000.1102	0085.2	016.4	51.34
349.0	005.8750	0245.9	041.9	159.2	000.1102	0091.4	016.6	51.74
350.0	005.8750	0245.2	041.8	156.7	000.1102	0102.1	016.8	52.58
351.0	005.8750	0244.8	041.8	154.4	000.1102	0114.5	017.0	53.41
352.0	005.8750	0243.4	041.7	152.2	000.1102	0107.2	017.4	52.58
353.0	005.8750	0242.4	041.7	150.0	000.1102	0098.3	017.7	51.53
354.0	005.8750	0241.1	041.6	148.0	000.1134	0103.6	018.0	51.82
355.0	005.8750	0238.9	041.4	146.2	000.1163	0110.3	018.5	52.12
356.0	005.8750	0237.7	041.4	144.4	000.1193	0113.0	018.9	52.09
357.0	005.8750	0235.6	041.2	142.8	000.1219	0114.1	019.4	51.86
358.0	005.8750	0233.6	041.1	141.3	000.1243	0116.2	020.0	51.68
359.0	005.8750	0231.6	041.0	140.0	000.1266	0118.1	020.5	51.47
000.0	005.8750	0229.7	040.8	138.7	000.1266	0119.1	021.1	51.10
001.0	005.9931	0230.1	041.0	136.9	000.1266	0120.5	021.4	50.93
002.0	006.1123	0231.6	041.3	135.1	000.1266	0120.5	021.7	50.68
003.0	006.2328	0233.2	041.5	133.3	000.1266	0115.5	022.1	50.05
004.0	006.3544	0235.1	041.8	131.6	000.1266	0105.6	022.5	48.95
005.0	006.4772	0235.2	042.0	130.1	000.1266	0100.4	023.0	48.12
006.0	006.6012	0234.4	042.1	128.9	000.1266	0100.8	023.5	47.75
007.0	006.7263	0232.6	042.1	127.9	000.1266	0103.6	024.1	47.56
008.0	006.8526	0230.6	042.1	127.0	000.1266	0106.9	024.8	47.40
009.0	006.9801	0229.0	042.2	126.1	000.1266	0111.0	025.4	47.30
010.0	007.1088	0227.7	042.2	125.3	000.1266	0115.6	026.0	47.22
011.0	007.3696	0227.2	042.5	124.1	000.1266	0118.9	026.6	47.08
012.0	007.6351	0227.5	042.8	122.9	000.1266	0117.3	027.2	46.59
013.0	007.9054	0228.9	043.2	121.6	000.1266	0112.3	027.7	45.85
014.0	008.1803	0230.9	043.6	120.3	000.1266	0107.4	028.3	45.08
015.0	008.4600	0232.0	044.0	119.2	000.1266	0104.9	029.0	44.48

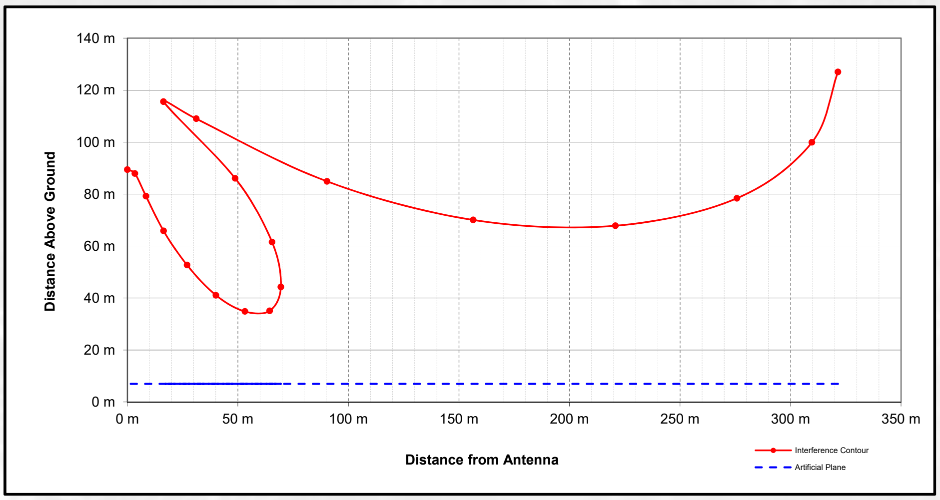
Exhibit 13.7
§74.1204(d) 2nd/3rd Adjacent Channel Given Interference Waiver Request
WLXX(FM) - Lexington, KY (CH225C1)

Terrain
160 468 m

NGDC 30 SEC Terrain Database
U.S. Census 2010 PL Database

WLXX(FM)

Yellow Highlighted Text denotes the existence of a §74.1204(d) Second/Third Adjacent Channel Given Interference Waiver Request toward WLXX(FM) - Lexington, KY (CH225C1) as noted in ***Exhibit 13.7***. Protection has been based on the worst case calculated 110.3 dBµ F(50:10) Interference Contour, corresponding to the worst case 70.3 dBµ F(50:50) Full Service Protected Contour. Protection has been demonstrated through a downward vertical radiation study. Full protection will be afforded the facility as the interference area will not reach the ground nor a seven meter artificial plane representing a standard two story home when taking into account the downward radiation characteristics of the antenna as supplied by the antenna manufacturer. A copy of the antenna manufacturer specifications has also been included in ***Exhibit 13.8***.



WLXX(FM)
Lexington, KY
BMLH19800902AF
Facility ID: 27417
Latitude: 38-02-22 N
Longitude: 084-24-11 W
ERP: 100.00 kW
Channel: 225C1 (92.9 MHz)
AMSL Height: 553.0 m
Horiz. Pattern: Omni

Proposed Antenna: BKG77/2L Two Bay 0.75 λ Spaced
Proposed Power: 0.225 kW
Antenna Height AGL: 127 meters
Interference Contour: 110.30 dBu f(50:10)
Artificial Ground Plane Height: 7 meters
Distance (Free Space) Equation: =(10^((106.92-[desired dBu]+[ERP in dBk])/20))*1000
Field Strength (dBu) Equation "=106.92-(20*(LOG10[DistMeters]/1000)))+[ERPin dBk]

Depression Angle Below Horizon	Antenna Relative Field	ERP in kW	ERP in dBk	Distance from Ant. to Interference Contour	Distance from Ant. to Artificial Plane	Field Strength in dBu @ Artificial Plane	Distance from Ant. to Ground Level	Field Strength in dBu @ Ground Level
0°	1.000	0.225	-6.48	321.43 m	infinite	---	---	---
-5°	0.967	0.210	-6.77	310.83 m	1376.85 m	97.37 dBu	1457.16 m	96.88 dBu
-10°	0.871	0.171	-7.68	279.97 m	691.05 m	102.45 dBu	731.36 m	101.96 dBu
-15°	0.711	0.114	-9.44	228.54 m	463.64 m	104.16 dBu	490.69 m	103.66 dBu
-20°	0.518	0.060	-12.19	166.50 m	350.86 m	103.83 dBu	371.32 m	103.33 dBu
-25°	0.310	0.022	-16.65	99.64 m	283.94 m	101.20 dBu	300.51 m	100.71 dBu
-30°	0.112	0.003	-25.49	36.00 m	240.00 m	93.82 dBu	254.00 m	93.33 dBu
-35°	0.062	0.001	-30.63	19.93 m	209.21 m	89.88 dBu	221.42 m	89.39 dBu
-40°	0.198	0.009	-20.54	63.64 m	186.69 m	100.95 dBu	197.58 m	100.46 dBu
-45°	0.288	0.019	-17.29	92.57 m	169.71 m	105.04 dBu	179.61 m	104.54 dBu
-50°	0.336	0.025	-15.95	108.00 m	156.65 m	107.07 dBu	165.79 m	106.58 dBu
-55°	0.349	0.027	-15.62	112.18 m	146.49 m	107.98 dBu	155.04 m	107.49 dBu
-60°	0.331	0.025	-16.08	106.39 m	138.56 m	108.01 dBu	146.65 m	107.51 dBu
-65°	0.295	0.020	-17.08	94.82 m	132.41 m	107.40 dBu	140.13 m	106.91 dBu
-70°	0.246	0.014	-18.66	79.07 m	127.70 m	106.14 dBu	135.15 m	105.64 dBu
-75°	0.197	0.009	-20.59	63.32 m	124.23 m	104.45 dBu	131.48 m	103.95 dBu
-80°	0.151	0.005	-22.90	48.54 m	121.85 m	102.30 dBu	128.96 m	101.81 dBu
-85°	0.122	0.003	-24.75	39.21 m	120.46 m	100.55 dBu	127.49 m	100.06 dBu
-90°	0.117	0.003	-25.11	37.61 m	120.00 m	100.22 dBu	127.00 m	99.73 dBu

CH223D.P
Richmond, KY
Proposed Operation
Facility ID: 155988
Latitude: 37-39-36 N
Longitude: 084-09-00 W
ERP: 0.225 kW
Channel: 223D (92.5 MHz)
AMSL Height: 417.0 m
Horiz. Pattern: Directional

MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036
1(517)278-7339

CH223D.P

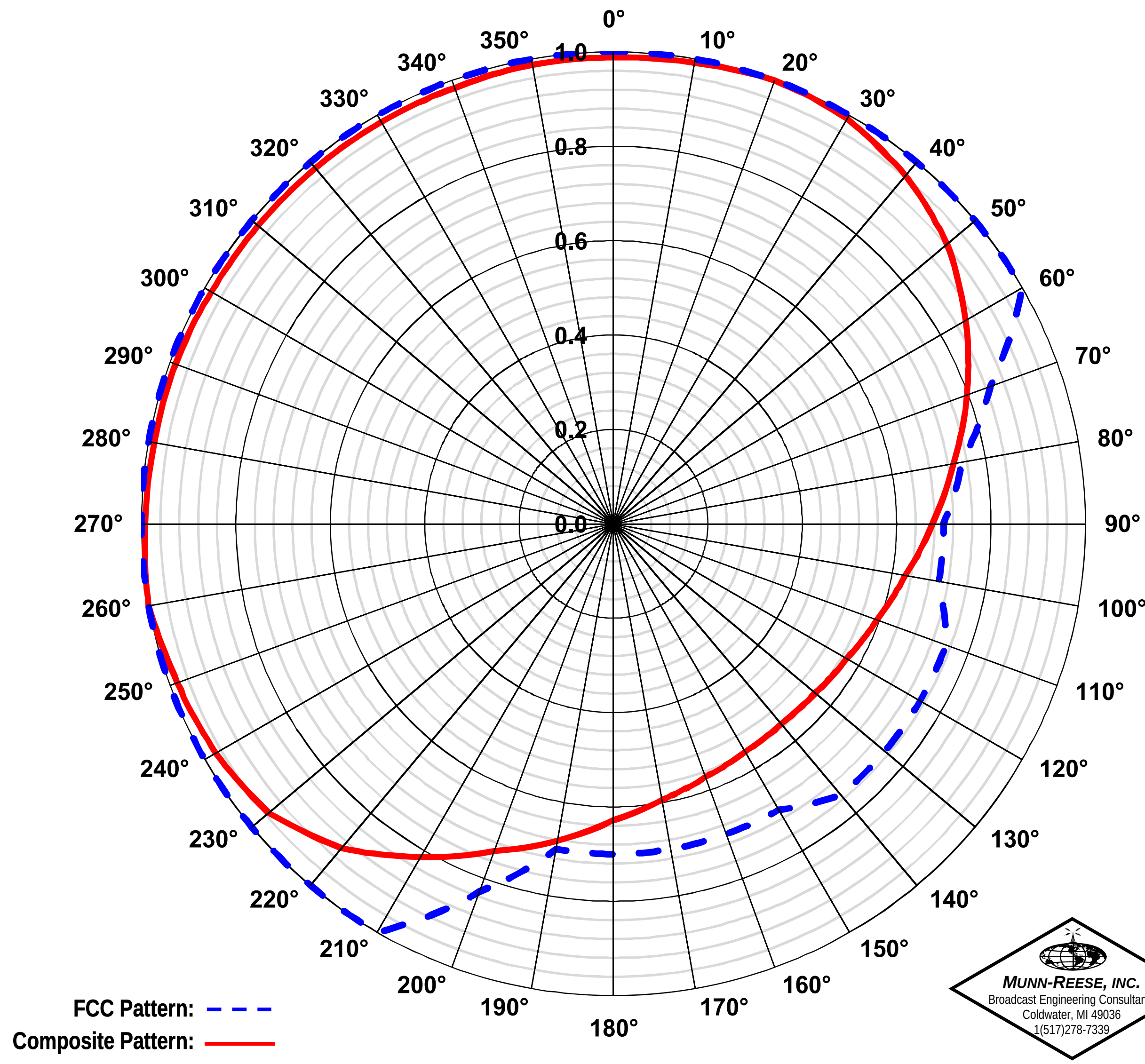
WLXX(FM)
70.3 F(50:50)dBµ Contour

Scale 1:200,000
0 2 4 6 km

Exhibit 13.8
Manufacturer's Directional Antenna Pattern Data

Azimuth ° True	FCC Pattern	Composite Pattern
0°	1.000	0.988
10°	1.000	0.992
20°	1.000	1.000
30°	1.000	0.991
40°	1.000	0.963
50°	1.000	0.923
60°	1.000	0.862
70°	0.850	0.797
80°	0.750	0.731
90°	0.700	0.676
100°	0.700	0.628
110°	0.750	0.594
120°	0.750	0.571
130°	0.750	0.558
140°	0.750	0.553
150°	0.700	0.558
160°	0.700	0.571
170°	0.700	0.594
180°	0.700	0.628
190°	0.700	0.682
200°	0.830	0.738
210°	1.000	0.815
220°	1.000	0.897
230°	1.000	0.953
240°	1.000	0.973
250°	1.000	0.983
260°	1.000	1.000
270°	1.000	0.992
280°	1.000	0.988
290°	1.000	0.988
300°	1.000	0.983
310°	1.000	0.983
320°	1.000	0.983
330°	1.000	0.983
340°	1.000	0.983
350°	1.000	0.988

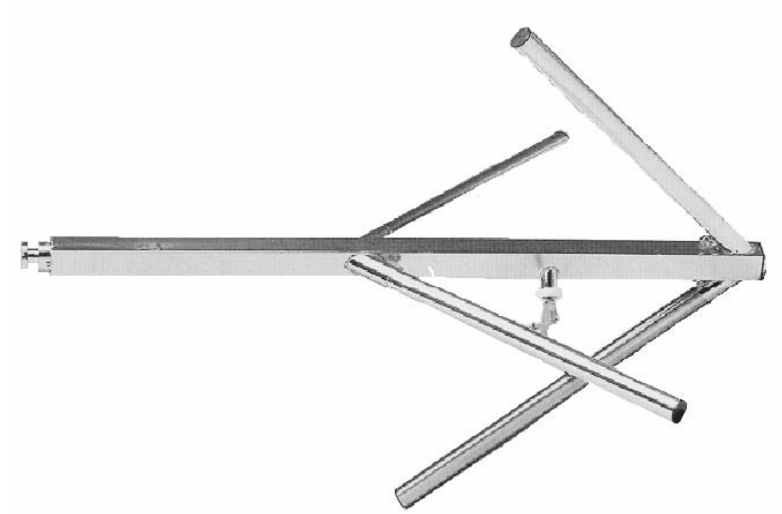
	Antenna 1	Antenna 2	Antenna 3	Antenna 4	
Model:	BKG77/2L(0.75wl)				Composite
Orientation	320° True				Power
Power:	100.0%				**100%**



MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036
1(517)278-7339

Exhibit 13.8 - Manufacturer's Directional Antenna Pattern Data
(Actual Pattern Rotated to 320.0°T)

MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036
1(517)278-7339



NICOM
BKG77
Low Power

Broadband FM Circular Polarization Antenna
Antena de FM Banda Ancha Polarizacion Circular

This antenna, constructed completely of stainless steel, offers circular polarization for better coverage especially in urban areas. In order to facilitate and decrease shipping costs, this model is simple to break down and reassemble when ready to be installed. It is insulated with Teflon, and with the appropriate connector has a maximum input of 0.5 kw.
Esta antena, fabricada completamente de acero inoxidable, le ofrece polarización circular para mejor alcance, especialmente en zonas urbanas. Para facilitar y desminuir los costos de transportación, este modelo es fácil de desarmar y volver a montar tan pronto que la quiera instalar. Está aislada con Teflon, y con el conector apropiado tiene una entrada máxima de 0.5 kw.

TECHNICAL SPECIFICATIONS (per bay)

Antenna type	circular polarization dipole	Front-to-back ratio	3 dB
Frequency range	87.5 - 108 MHz	Lightening protection	all parts grounded
Bandwidth	500 kHz max	Max wind velocity	119 mph (190 km/h)
Impedance	50 ohms	Wind load	8 Lbs (3.6 kg)
Connectors	N type (0.5 kw)	Wind surface	0.3 ft^2 (0.04 m^2)
Power rating	500 Watts max	Materials (external)	stainless steel
VSWR	< 1.1:1	Mounting	from 2" to 4"
Polarization	vertical and horizontal	Weight	7.7 Lbs (3.5 kg)
Gain	- 3 dBd (referred to half-wave dipole)	Dimensions	58"×32"×32" (1450×800×800mm)
H plane	omnidirectional ±1.5 dB (with a 4" mast)	Packing	72"×6"×6" (1500×152×152mm)
V plane	omnidirectional ±3 dB (with a 4" mast)		

Exhibit 13.8 - Manufacturer's Directional Antenna Pattern Data
(Actual Pattern Rotated to 320.0°T)

MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036
1(517)278-7339

Date: 29/04/2013

BKG77SINGLE.PRJ

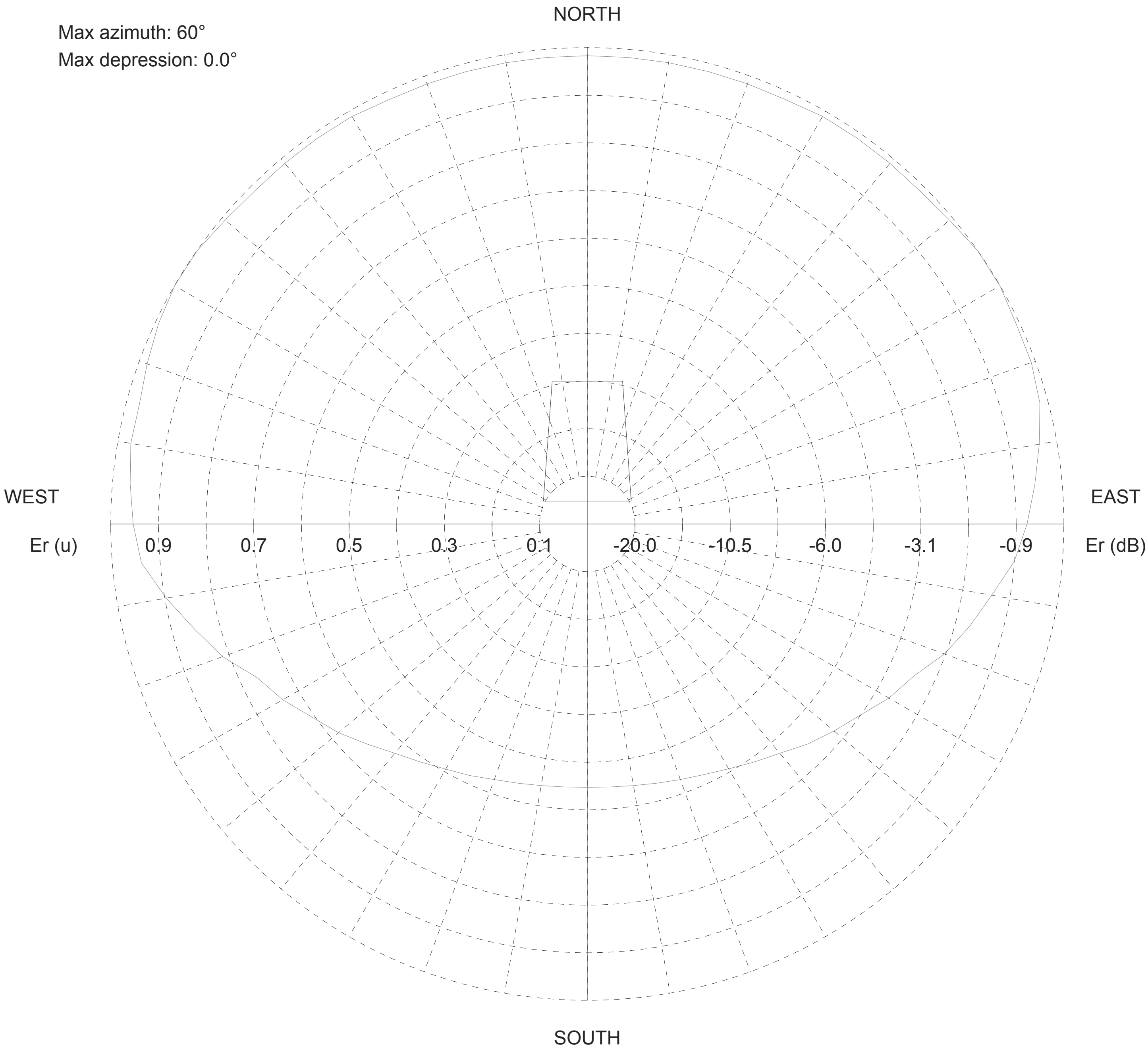
TX station: BKG77-1

Site name:

Frequency: 100.00 MHz

Horizontal diagram of Maxima

Max azimuth: 60°
Max depression: 0.0°



0.0° depres. (Total antenna), Gain (dBd): -3.03 ERP T.max (KW): 0.498 ERP E.max (KW): 0.387

NicomUsa, Inc

Exhibit 13.8 - Manufacturer's Directional Antenna Pattern Data
(Actual Pattern Rotated to 320.0°T)

MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036
1(517)278-7339

Date: 29/04/2013

BKG77SINGLE.PRJ

TX station: BKG77-1

Site name:

Frequency: 100.00 MHz

Horizontal diagram of Maxima

Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)
0.0	0.0	98.3	373.6	120.0	0.0	73.1	206.6	240.0	0.0	73.8	210.7
5.0	0.0	98.3	373.6	125.0	0.0	69.9	189.2	245.0	0.0	76.4	225.7
10.0	0.0	98.3	373.6	130.0	0.0	67.6	176.7	250.0	0.0	81.5	256.6
15.0	0.0	98.3	373.6	135.0	0.0	65.3	165.1	255.0	0.0	85.3	281.6
20.0	0.0	98.3	373.6	140.0	0.0	62.8	152.7	260.0	0.0	89.7	311.1
25.0	0.0	98.3	373.6	145.0	0.0	61.0	144.0	265.0	0.0	93.9	341.1
30.0	0.0	98.8	377.5	150.0	0.0	59.4	136.3	270.0	0.0	95.3	351.1
35.0	0.0	98.8	377.5	155.0	0.0	58.0	130.3	275.0	0.0	96.3	358.5
40.0	0.0	98.8	377.5	160.0	0.0	57.1	126.1	280.0	0.0	97.3	366.1
45.0	0.0	98.8	377.5	165.0	0.0	56.3	122.8	285.0	0.0	97.3	366.1
50.0	0.0	99.2	380.8	170.0	0.0	55.8	120.3	290.0	0.0	98.3	373.6
55.0	0.0	100.0	386.5	175.0	0.0	55.4	118.7	295.0	0.0	99.3	381.4
60.0	0.0	100.0	386.7	180.0	0.0	55.3	118.2	300.0	0.0	100.0	386.7
65.0	0.0	99.3	381.4	185.0	0.0	55.4	118.7	305.0	0.0	100.0	386.5
70.0	0.0	99.1	380.0	190.0	0.0	55.8	120.3	310.0	0.0	99.2	380.8
75.0	0.0	98.3	373.6	195.0	0.0	56.3	122.8	315.0	0.0	98.8	377.5
80.0	0.0	96.3	358.5	200.0	0.0	57.1	126.1	320.0	0.0	98.8	377.5
85.0	0.0	94.3	343.8	205.0	0.0	58.3	131.4	325.0	0.0	98.8	377.5
90.0	0.0	92.3	329.3	210.0	0.0	59.4	136.5	330.0	0.0	98.8	377.5
95.0	0.0	90.0	312.9	215.0	0.0	61.0	144.0	335.0	0.0	98.3	373.6
100.0	0.0	86.2	287.1	220.0	0.0	62.8	152.7	340.0	0.0	98.3	373.6
105.0	0.0	83.0	266.7	225.0	0.0	65.3	165.1	345.0	0.0	98.3	373.6
110.0	0.0	79.7	245.9	230.0	0.0	68.2	179.6	350.0	0.0	98.3	373.6
115.0	0.0	75.6	221.0	235.0	0.0	70.6	192.7	355.0	0.0	98.3	373.6

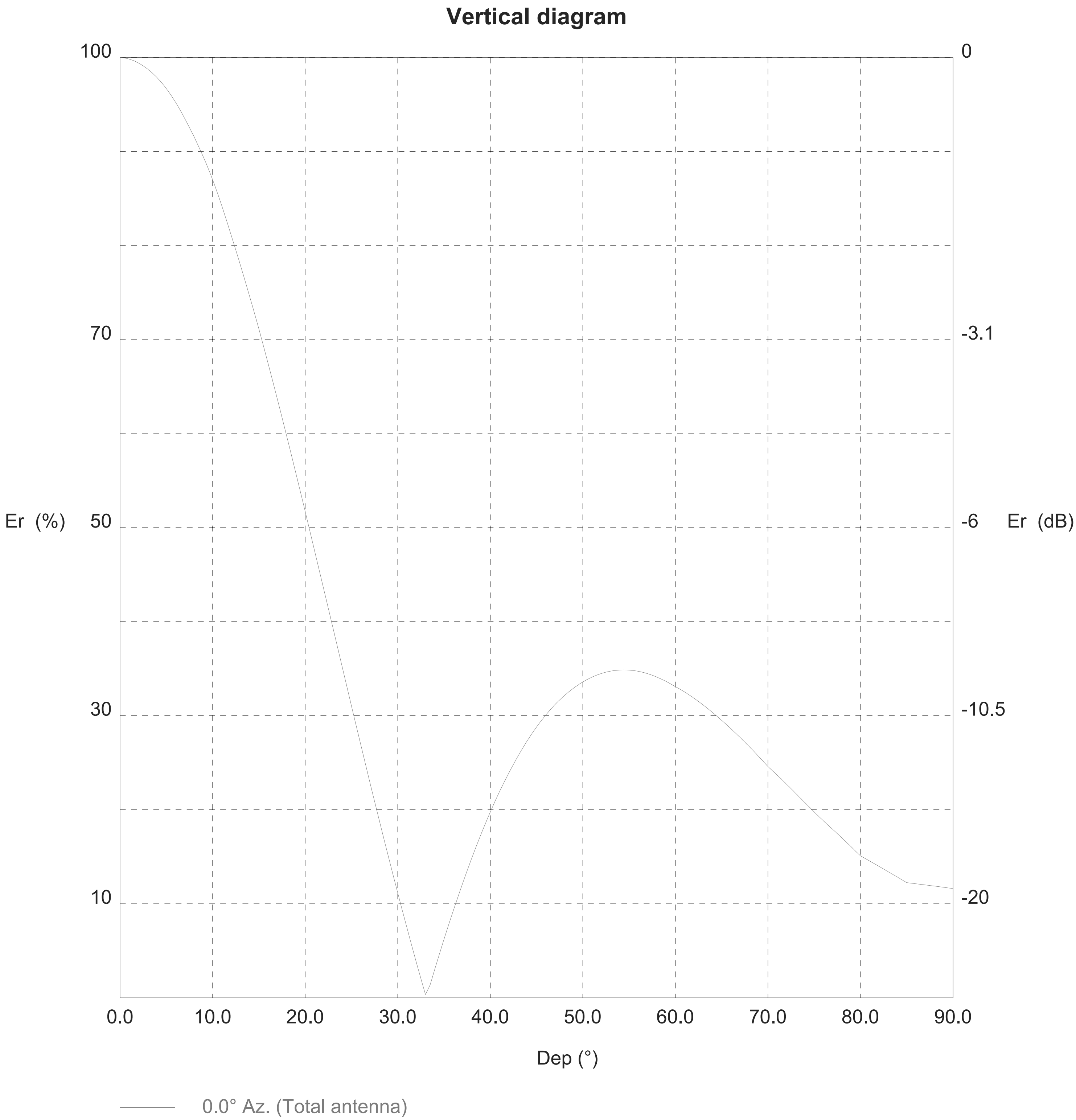
Exhibit 13.8 - Manufacturer's Directional Antenna Pattern Data
(Actual Pattern Rotated to 320.0°T)

MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036
1(517)278-7339

TX station: BKG77/2 GENERIC

Site name: 3/4 WAVE SEPARATION

Frequency: 98.10 MHz



NicomUsa, Inc

Exhibit 13.8 - Manufacturer's Directional Antenna Pattern Data
(Actual Pattern Rotated to 320.0°T)

MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036
1(517)278-7339

TX station: BKG77/2 GENERIC

Site name: 3/4 WAVE SEPARATION

Frequency: 98.10 MHz

Vertical diagram at an azimuth of 0° degrees

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
0.0	100.0	914.2	30.0	11.2	11.5	60.0	33.1	100.1
0.5	100.0	913.3	30.5	9.3	7.9	60.5	32.8	98.4
1.0	99.8	911.3	31.0	7.5	5.1	61.0	32.5	96.7
1.5	99.7	908.1	31.5	5.6	2.9	61.5	32.2	94.8
2.0	99.4	903.9	32.0	3.8	1.3	62.0	31.9	92.8
2.5	99.1	898.4	32.5	2.1	0.4	62.5	31.5	90.8
3.0	98.8	891.9	33.0	0.3	0.0	63.0	31.1	88.7
3.5	98.4	884.3	33.5	1.4	0.2	63.5	30.8	86.5
4.0	97.9	875.7	34.0	3.0	0.8	64.0	30.4	84.2
4.5	97.3	865.9	34.5	4.6	2.0	64.5	29.9	81.9
5.0	96.7	855.2	35.0	6.2	3.5	65.0	29.5	79.5
5.5	96.0	842.7	35.5	7.8	5.5	65.5	29.1	77.2
6.0	95.2	829.2	36.0	9.3	7.9	66.0	28.6	74.8
6.5	94.4	814.9	36.5	10.7	10.5	66.5	28.2	72.5
7.0	93.5	799.7	37.0	12.1	13.5	67.0	27.7	70.0
7.5	92.6	783.6	37.5	13.5	16.7	67.5	27.2	67.6
8.0	91.6	766.9	38.0	14.9	20.2	68.0	26.7	65.1
8.5	90.5	749.4	38.5	16.1	23.8	68.5	26.2	62.7
9.0	89.4	731.2	39.0	17.4	27.7	69.0	25.7	60.2
9.5	88.3	712.5	39.5	18.6	31.6	69.5	25.1	57.8
10.0	87.1	693.1	40.0	19.8	35.7	70.0	24.6	55.3
10.5	85.7	670.8	40.5	20.9	39.8	70.5	24.1	53.3
11.0	84.2	648.2	41.0	21.9	43.9	71.0	23.7	51.2
11.5	82.7	625.3	41.5	22.9	48.1	71.5	23.2	49.2
12.0	81.2	602.3	42.0	23.9	52.2	72.0	22.7	47.2
12.5	79.6	579.0	42.5	24.8	56.4	72.5	22.2	45.2
13.0	78.0	555.7	43.0	25.7	60.4	73.0	21.7	43.2
13.5	76.3	532.4	43.5	26.5	64.4	73.5	21.2	41.3
14.0	74.6	509.1	44.0	27.3	68.3	74.0	20.7	39.3
14.5	72.9	485.8	44.5	28.1	72.1	74.5	20.2	37.4
15.0	71.1	462.7	45.0	28.8	75.8	75.0	19.7	35.5
15.5	69.3	439.1	45.5	29.5	79.3	75.5	19.3	33.9
16.0	67.4	415.8	46.0	30.1	82.7	76.0	18.8	32.4
16.5	65.6	392.9	46.5	30.7	85.9	76.5	18.4	30.8
17.0	63.6	370.3	47.0	31.2	88.9	77.0	17.9	29.3
17.5	61.7	348.1	47.5	31.7	91.8	77.5	17.4	27.8
18.0	59.8	326.5	48.0	32.1	94.4	78.0	17.0	26.4
18.5	57.8	305.3	48.5	32.6	96.9	78.5	16.5	24.9
19.0	55.8	284.7	49.0	32.9	99.2	79.0	16.0	23.5
19.5	53.8	264.7	49.5	33.3	101.2	79.5	15.6	22.1
20.0	51.8	245.3	50.0	33.6	103.1	80.0	15.1	20.8
20.5	49.7	226.1	50.5	33.9	104.8	80.5	14.8	20.0
21.0	47.6	207.5	51.0	34.1	106.3	81.0	14.5	19.3
21.5	45.6	189.8	51.5	34.3	107.6	81.5	14.3	18.6
22.0	43.5	172.8	52.0	34.5	108.7	82.0	14.0	17.8
22.5	41.4	156.7	52.5	34.6	109.6	82.5	13.7	17.1
23.0	39.3	141.3	53.0	34.7	110.3	83.0	13.4	16.4
23.5	37.2	126.8	53.5	34.8	110.8	83.5	13.1	15.7
24.0	35.2	113.0	54.0	34.9	111.1	84.0	12.8	15.0
24.5	33.1	100.1	54.5	34.9	111.2	84.5	12.5	14.4
25.0	31.0	88.1	55.0	34.9	111.1	85.0	12.2	13.7
25.5	29.0	76.8	55.5	34.8	110.7	85.5	12.2	13.6
26.0	26.9	66.3	56.0	34.7	110.2	86.0	12.1	13.4
26.5	24.9	56.7	56.5	34.6	109.4	86.5	12.1	13.3
27.0	22.9	47.9	57.0	34.5	108.5	87.0	12.0	13.2
27.5	20.9	39.9	57.5	34.3	107.5	87.5	11.9	13.0
28.0	18.9	32.7	58.0	34.1	106.3	88.0	11.9	12.9
28.5	17.0	26.3	58.5	33.9	104.9	88.5	11.8	12.8
29.0	15.0	20.6	59.0	33.6	103.5	89.0	11.7	12.6
29.5	13.1	15.7	59.5	33.4	101.8	89.5	11.7	12.5