

# Exhibit 20.1

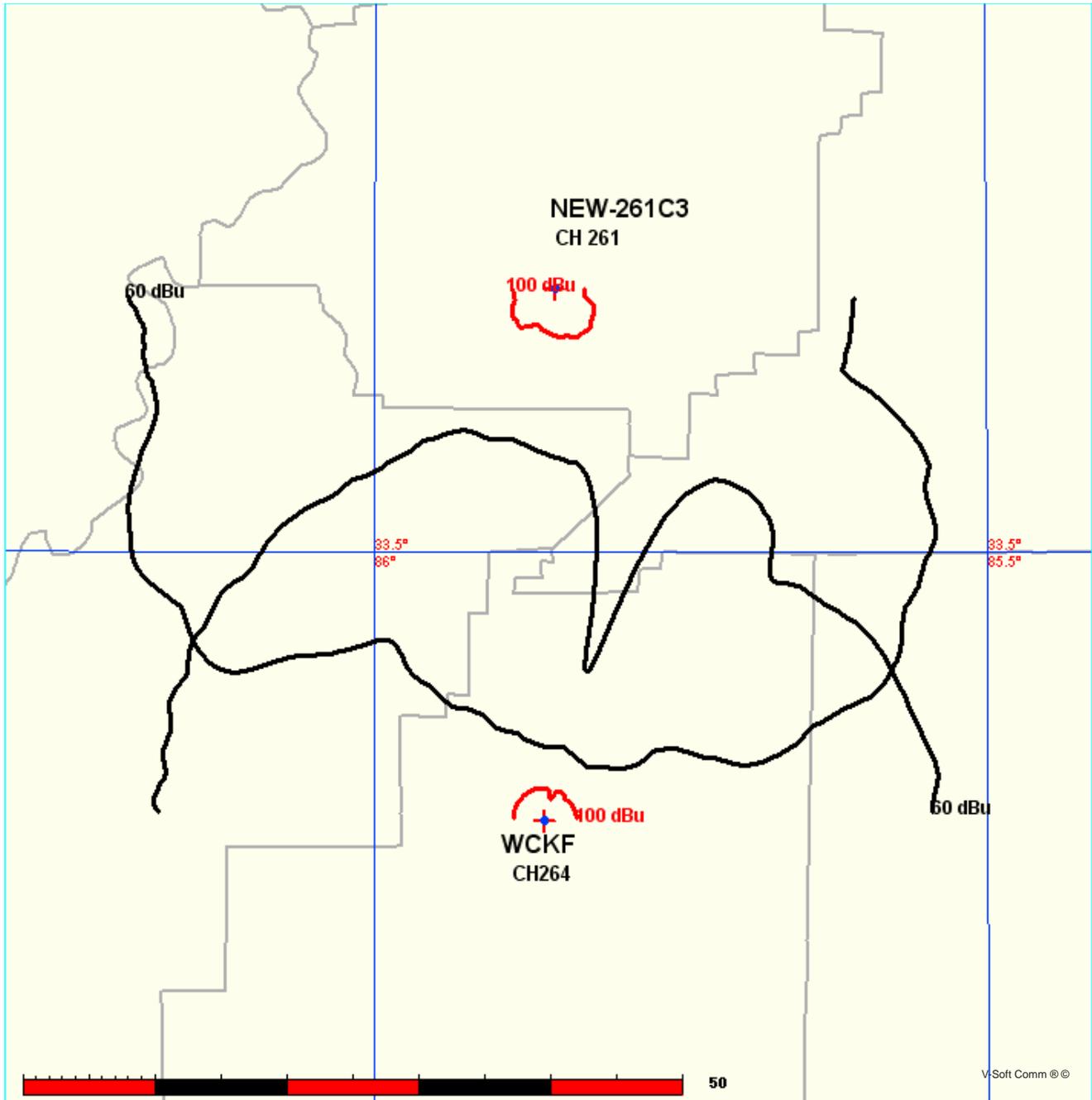
## §73.215 Short-Spaced Contour Protection Studies Toward WCKF(FM) - Ashland, AL (Present Facilities)

Anniston Seventh-day Adventist Church

FMCommander Single Allocation Study - 06-20-2012 - NGDC 30 SEC  
NEW-261C3's Overlaps (In= 0.0 km, Out= 0.0 km)

NEW-261C3 CH 261 C3 73.215 Z  
Lat= 33 40 41.8, Lng= 85 51 08.9  
25.0 kW 78.2 M HAAT, 316.4 M COR  
Prot.= 60 dBu, Intef.= 100 dBu

WCKF CH 264 A 73.215 N BLH20090630ABP  
Lat= 33 19 14.0, Lng= 85 51 39.0  
1.7 kW 190 M HAAT, 529 M COR  
Prot.= 60 dBu, Intef.= 100 dBu



# Exhibit 20.1

## §73.215 Short-Spaced Contour Protection Studies Toward WCKF(FM) - Ashland, AL (Present Facilities)

06-20-2012

Terrain Data: NGDC 30 SEC

FMOver Analysis

NEW-261C3

WCKF BLH20090630ABP

Channel = 261C3  
 Max ERP = 25 kW  
 RCAMSL = 316.4 M  
 N. Lat. 33 40 41.8  
 W. Lng. 85 51 08.9  
 Protected  
 60 dBu

Channel = 264A  
 Max ERP = 1.7 kW  
 RCAMSL = 529 M  
 N. Lat. 33 19 14.0  
 W. Lng. 85 51 39.0  
 Interfering  
 100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
140.0	025.0000	0097.9	038.7	068.5	001.7000	0194.8	027.5	62.13	
141.0	025.0000	0098.5	038.8	069.2	001.7000	0195.3	026.9	62.55	
142.0	025.0000	0098.2	038.8	069.6	001.7000	0195.7	026.2	63.01	
143.0	025.0000	0097.5	038.7	069.7	001.7000	0195.9	025.6	63.50	
144.0	025.0000	0096.4	038.5	069.8	001.7000	0195.9	024.9	63.99	
145.0	025.0000	0095.5	038.3	069.9	001.7000	0196.0	024.2	64.49	
146.0	025.0000	0095.4	038.3	070.2	001.7000	0196.3	023.5	64.99	
147.0	025.0000	0095.3	038.3	070.6	001.7000	0196.7	022.9	65.49	
148.0	025.0000	0094.9	038.2	070.8	001.7000	0196.9	022.2	66.00	
149.0	025.0000	0094.6	038.2	071.0	001.7000	0197.2	021.5	66.53	
150.0	025.0000	0095.3	038.3	071.8	001.7000	0197.8	020.9	67.04	
151.0	025.0000	0096.9	038.6	072.9	001.7000	0198.5	020.3	67.55	
152.0	025.0000	0097.9	038.7	073.8	001.7000	0199.2	019.7	68.07	
153.0	025.0000	0098.1	038.8	074.3	001.7000	0199.7	019.0	68.63	
154.0	025.0000	0098.0	038.7	074.6	001.7000	0200.1	018.4	69.19	
155.0	025.0000	0098.0	038.7	075.0	001.7000	0200.7	017.7	69.76	
156.0	025.0000	0098.0	038.7	075.4	001.7000	0201.3	017.0	70.34	
157.0	025.0000	0097.5	038.7	075.5	001.7000	0201.5	016.4	70.92	
158.0	025.0000	0096.2	038.4	075.0	001.7000	0200.7	015.7	71.47	
159.0	025.0000	0093.9	038.0	073.8	001.7000	0199.2	015.0	71.76	
160.0	025.0000	0091.0	037.5	071.9	001.7000	0197.9	014.3	72.51	
161.0	025.0000	0088.8	037.1	070.2	001.7000	0196.3	013.6	73.28	
162.0	025.0000	0087.5	036.9	069.1	001.7000	0195.3	013.0	74.09	
163.0	025.0000	0085.4	036.5	067.1	001.7000	0194.1	012.4	74.91	
164.0	025.0000	0082.9	036.0	064.4	001.7000	0192.2	011.8	75.67	
165.0	025.0000	0080.9	035.6	061.9	001.7000	0189.9	011.3	76.41	
166.0	025.0000	0080.4	035.5	060.5	001.7000	0188.3	010.7	77.27	
167.0	025.0000	0080.1	035.4	059.3	001.7000	0185.5	010.1	78.13	
168.0	025.0000	0080.3	035.4	058.3	001.7000	0182.7	009.6	79.06	
169.0	025.0000	0082.1	035.8	059.2	001.7000	0185.2	008.8	80.48	
170.0	025.0000	0083.5	036.1	059.5	001.7000	0186.2	008.2	81.84	
171.0	025.0000	0084.1	036.2	058.7	001.7000	0183.9	007.5	83.04	

# Exhibit 20.1

## §73.215 Short-Spaced Contour Protection Studies Toward WCKF(FM) - Ashland, AL (Present Facilities)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
172.0	025.0000	0084.1	036.2	056.6	001.7000	0177.0	007.0	84.07
173.0	025.0000	0083.6	036.1	053.5	001.7000	0168.1	006.4	84.97
174.0	025.0000	0083.1	036.0	049.5	001.7000	0159.4	006.0	85.83
175.0	025.0000	0082.5	035.9	044.8	001.7000	0143.3	005.5	86.19
176.0	025.0000	0082.1	035.8	039.5	001.7000	0174.0	005.1	88.89
177.0	025.0000	0079.7	035.3	030.8	001.7000	0197.9	005.1	89.71
178.0	025.0000	0077.1	034.8	022.1	001.7000	0135.6	005.3	86.45
179.0	025.0000	0074.5	034.3	014.2	001.7000	0035.2	005.6	73.70
180.0	025.0000	0074.3	034.2	008.1	001.7000	0144.3	005.5	86.26
181.0	025.0000	0074.3	034.2	001.9	001.7000	0171.8	005.5	87.78
182.0	025.0000	0074.3	034.2	355.7	001.7000	0190.9	005.5	88.38
183.0	025.0000	0073.3	034.0	350.1	001.7000	0201.9	005.8	87.93
184.0	025.0000	0072.2	033.8	345.3	001.7000	0210.6	006.2	87.19
185.0	025.0000	0070.5	033.4	341.7	001.7000	0210.1	006.8	85.82
186.0	025.0000	0070.2	033.3	337.6	001.7000	0203.7	007.1	84.86
187.0	025.0000	0070.0	033.3	333.8	001.7000	0200.2	007.4	83.97
188.0	025.0000	0069.0	033.1	331.2	001.7000	0202.7	007.9	83.01
189.0	025.0000	0067.0	032.6	330.0	001.7000	0203.9	008.6	81.69
190.0	025.0000	0065.6	032.3	328.5	001.7000	0203.1	009.2	80.54
191.0	025.0000	0064.9	032.1	326.7	001.7000	0201.5	009.7	79.56
192.0	025.0000	0064.8	032.1	324.5	001.7000	0203.2	010.1	78.91
193.0	025.0000	0065.2	032.2	322.2	001.7000	0206.5	010.5	78.40
194.0	025.0000	0065.3	032.2	320.3	001.7000	0207.7	011.0	77.73
195.0	025.0000	0064.3	032.0	319.5	001.7000	0208.2	011.5	76.82
196.0	025.0000	0062.6	031.6	319.5	001.7000	0208.2	012.2	75.78
197.0	025.0000	0061.3	031.3	319.3	001.7000	0208.3	012.8	74.88
198.0	025.0000	0060.7	031.2	318.5	001.7000	0208.7	013.4	74.16
199.0	025.0000	0060.4	031.2	317.7	001.7000	0208.9	013.9	73.50
200.0	025.0000	0059.7	031.0	317.2	001.7000	0209.0	014.4	72.81
201.0	025.0000	0058.3	030.7	317.5	001.7000	0208.9	015.1	72.36
202.0	025.0000	0056.6	030.2	318.0	001.7000	0208.8	015.7	71.79
203.0	025.0000	0054.8	029.8	318.6	001.7000	0208.6	016.4	71.22
204.0	025.0000	0053.1	029.4	319.2	001.7000	0208.3	017.0	70.66
205.0	025.0000	0052.3	029.1	319.1	001.7000	0208.4	017.6	70.20
206.0	025.0000	0052.6	029.2	318.3	001.7000	0208.7	018.0	69.85
207.0	025.0000	0053.8	029.5	316.8	001.7000	0209.0	018.4	69.57
208.0	025.0000	0055.8	030.0	314.8	001.7000	0208.0	018.7	69.25
209.0	025.0000	0058.1	030.6	312.7	001.7000	0205.2	019.1	68.83
210.0	025.0000	0060.5	031.2	310.8	001.7000	0202.0	019.5	68.37
211.0	025.0000	0062.9	031.7	309.0	001.7000	0201.4	019.9	67.98
212.0	025.0000	0065.1	032.2	307.4	001.7000	0205.0	020.4	67.73
213.0	025.0000	0067.1	032.7	306.0	001.7000	0208.9	021.0	67.48
214.0	025.0000	0069.2	033.1	304.8	001.7000	0211.1	021.5	67.14
215.0	025.0000	0071.4	033.6	303.5	001.7000	0211.5	022.1	66.70

# Exhibit 20.1

## §73.215 Short-Spaced Contour Protection Studies Toward WCKF(FM) - Ashland, AL (Present Facilities)

06-20-2012

Terrain Data: NGDC 30 SEC

FMOver Analysis

WCKF BLH20090630ABP

NEW-261C3

Channel = 264A

Max ERP = 1.7 kW

RCAMSL = 529 M

N. Lat. 33 19 14.0

W. Lng. 85 51 39.0

Protected

60 dBu

Channel = 261C3

Max ERP = 25 kW

RCAMSL = 316.4 M

N. Lat. 33 40 41.8

W. Lng. 85 51 08.9

Interfering

100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
316.0	001.7000	0208.8	029.6	229.1	016.5489	0109.7	028.1	66.56	
317.0	001.7000	0209.0	029.6	229.2	016.4562	0109.8	027.6	66.86	
318.0	001.7000	0208.8	029.6	229.2	016.4560	0109.8	027.1	67.19	
319.0	001.7000	0208.4	029.6	229.2	016.4906	0109.8	026.6	67.53	
320.0	001.7000	0207.9	029.5	229.1	016.5659	0109.7	026.1	67.89	
321.0	001.7000	0207.5	029.5	229.0	016.6432	0109.6	025.6	68.25	
322.0	001.7000	0206.8	029.4	228.9	016.7844	0109.5	025.1	68.63	
323.0	001.7000	0205.5	029.4	228.6	017.0184	0109.2	024.6	69.03	
324.0	001.7000	0204.1	029.3	228.2	017.3062	0109.0	024.1	69.45	
325.0	001.7000	0202.4	029.1	227.8	017.6760	0108.7	023.6	69.87	
326.0	001.7000	0201.5	029.1	227.5	017.9539	0108.5	023.1	70.28	
327.0	001.7000	0201.7	029.1	227.3	018.1046	0108.3	022.6	70.68	
328.0	001.7000	0202.5	029.1	227.2	018.1725	0108.2	022.1	71.08	
329.0	001.7000	0203.5	029.2	227.2	018.2365	0108.2	021.5	71.48	
330.0	001.7000	0203.9	029.2	226.9	018.4350	0107.9	021.0	71.90	
331.0	001.7000	0203.1	029.2	226.4	018.8676	0107.4	020.6	72.33	
332.0	001.7000	0201.5	029.1	225.7	019.4905	0106.6	020.1	72.76	
333.0	001.7000	0200.3	029.0	225.1	020.0857	0105.6	019.6	73.18	
334.0	001.7000	0200.3	029.0	224.6	020.5233	0104.8	019.2	73.59	
335.0	001.7000	0201.3	029.1	224.3	020.8174	0104.3	018.7	74.02	
336.0	001.7000	0202.9	029.2	224.0	021.0414	0103.9	018.2	74.45	
337.0	001.7000	0203.6	029.2	223.6	021.4965	0103.0	017.7	74.86	
338.0	001.7000	0203.7	029.2	222.9	022.1260	0101.6	017.2	75.25	
339.0	001.7000	0204.0	029.2	222.2	022.8067	0099.7	016.7	75.61	
340.0	001.7000	0205.7	029.4	221.8	023.2451	0098.3	016.2	75.99	
341.0	001.7000	0208.6	029.6	221.5	023.4723	0097.6	015.7	76.43	
342.0	001.7000	0210.4	029.7	221.0	024.0092	0095.5	015.2	76.78	
343.0	001.7000	0210.8	029.7	220.0	024.9944	0091.3	014.7	76.86	
344.0	001.7000	0210.3	029.7	218.7	025.0000	0084.9	014.3	76.70	
345.0	001.7000	0210.5	029.7	217.5	025.0000	0079.5	013.9	76.65	
346.0	001.7000	0210.7	029.7	216.2	025.0000	0074.6	013.5	76.65	
347.0	001.7000	0210.8	029.7	214.8	025.0000	0070.9	013.1	76.77	
348.0	001.7000	0210.4	029.7	213.1	025.0000	0067.4	012.7	76.86	

**MUNN-REESE, INC.**

Broadcast Engineering Consultants

COLDWATER, MI 49036

# Exhibit 20.1

## §73.215 Short-Spaced Contour Protection Studies Toward WCKF(FM) - Ashland, AL (Present Facilities)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
349.0	001.7000	0207.3	029.5	210.7	025.0000	0062.2	012.5	76.51
350.0	001.7000	0202.5	029.1	207.9	025.0000	0055.5	012.5	75.68
351.0	001.7000	0198.0	028.8	205.2	025.0000	0052.3	012.4	75.21
352.0	001.7000	0195.6	028.7	202.8	025.0000	0055.1	012.3	75.87
353.0	001.7000	0195.0	028.6	200.6	025.0000	0058.8	012.1	76.74
354.0	001.7000	0194.1	028.6	198.4	025.0000	0060.6	011.9	77.23
355.0	001.7000	0192.6	028.5	196.0	025.0000	0062.7	011.8	77.64
356.0	001.7000	0189.9	028.3	193.4	025.0000	0065.2	011.8	77.92
357.0	001.7000	0185.6	028.0	190.8	025.0000	0065.1	012.0	77.68
358.0	001.7000	0181.6	027.7	188.2	025.0000	0068.6	012.1	77.86
359.0	001.7000	0178.9	027.5	185.9	025.0000	0070.2	012.2	77.88
000.0	001.7000	0176.2	027.3	183.6	025.0000	0072.7	012.4	77.96
001.0	001.7000	0173.5	027.2	181.4	025.0000	0074.3	012.6	77.88
002.0	001.7000	0171.6	027.0	179.2	025.0000	0074.3	012.7	77.69
003.0	001.7000	0169.8	026.9	177.2	025.0000	0079.2	012.9	77.99
004.0	001.7000	0167.9	026.8	175.2	025.0000	0082.4	013.1	78.05
005.0	001.7000	0167.1	026.7	173.3	025.0000	0083.5	013.2	77.97
006.0	001.7000	0163.9	026.5	171.5	025.0000	0084.2	013.5	77.60
007.0	001.7000	0156.5	025.9	170.3	025.0000	0083.9	014.2	76.75
008.0	001.7000	0145.3	025.1	169.7	025.0000	0083.0	015.1	75.77
009.0	001.7000	0131.1	024.0	169.5	025.0000	0082.8	016.3	74.72
010.0	001.7000	0114.6	022.7	169.7	025.0000	0083.1	017.7	73.58
011.0	001.7000	0096.1	020.8	170.6	025.0000	0084.1	019.6	72.12
012.0	001.7000	0077.1	018.5	171.9	025.0000	0084.1	021.8	70.32
013.0	001.7000	0057.1	015.9	173.5	025.0000	0083.4	024.4	68.27
014.0	001.7000	0038.7	012.9	175.1	025.0000	0082.5	027.3	66.24
015.0	001.7000	0022.7	011.5	175.6	025.0000	0082.2	028.7	65.36
016.0	001.7000	0015.9	011.5	175.2	025.0000	0082.4	028.7	65.33
017.0	001.7000	0021.2	011.5	174.8	025.0000	0082.6	028.8	65.31
018.0	001.7000	0038.2	012.9	173.4	025.0000	0083.4	027.7	66.08
019.0	001.7000	0062.6	016.6	169.1	025.0000	0082.2	024.4	68.14
020.0	001.7000	0088.6	019.9	164.0	025.0000	0083.0	021.8	70.18
021.0	001.7000	0113.0	022.5	158.7	025.0000	0094.7	020.1	72.80
022.0	001.7000	0134.5	024.3	154.3	025.0000	0097.9	019.1	73.87
023.0	001.7000	0151.9	025.6	150.3	025.0000	0095.8	018.6	74.10
024.0	001.7000	0165.9	026.6	146.9	025.0000	0095.4	018.4	74.24
025.0	001.7000	0177.3	027.4	144.0	025.0000	0096.5	018.4	74.35
026.0	001.7000	0186.3	028.0	141.6	025.0000	0098.4	018.5	74.41
027.0	001.7000	0192.3	028.4	139.9	025.0000	0097.7	018.8	74.11
028.0	001.7000	0195.0	028.6	138.8	025.0000	0096.3	019.2	73.66
029.0	001.7000	0196.2	028.7	138.1	025.0000	0095.3	019.6	73.20
030.0	001.7000	0197.0	028.8	137.5	025.0000	0094.4	020.1	72.75
031.0	001.7000	0198.1	028.8	136.9	025.0000	0093.6	020.5	72.31
032.0	001.7000	0198.7	028.9	136.4	025.0000	0092.9	021.0	71.86
033.0	001.7000	0198.4	028.9	136.1	025.0000	0092.3	021.5	71.42
034.0	001.7000	0196.9	028.7	136.1	025.0000	0092.3	022.0	71.01
035.0	001.7000	0194.5	028.6	136.3	025.0000	0092.7	022.6	70.65

**MUNN-REESE, INC.**

Broadcast Engineering Consultants

COLDWATER, MI 49036

# Exhibit 20.2

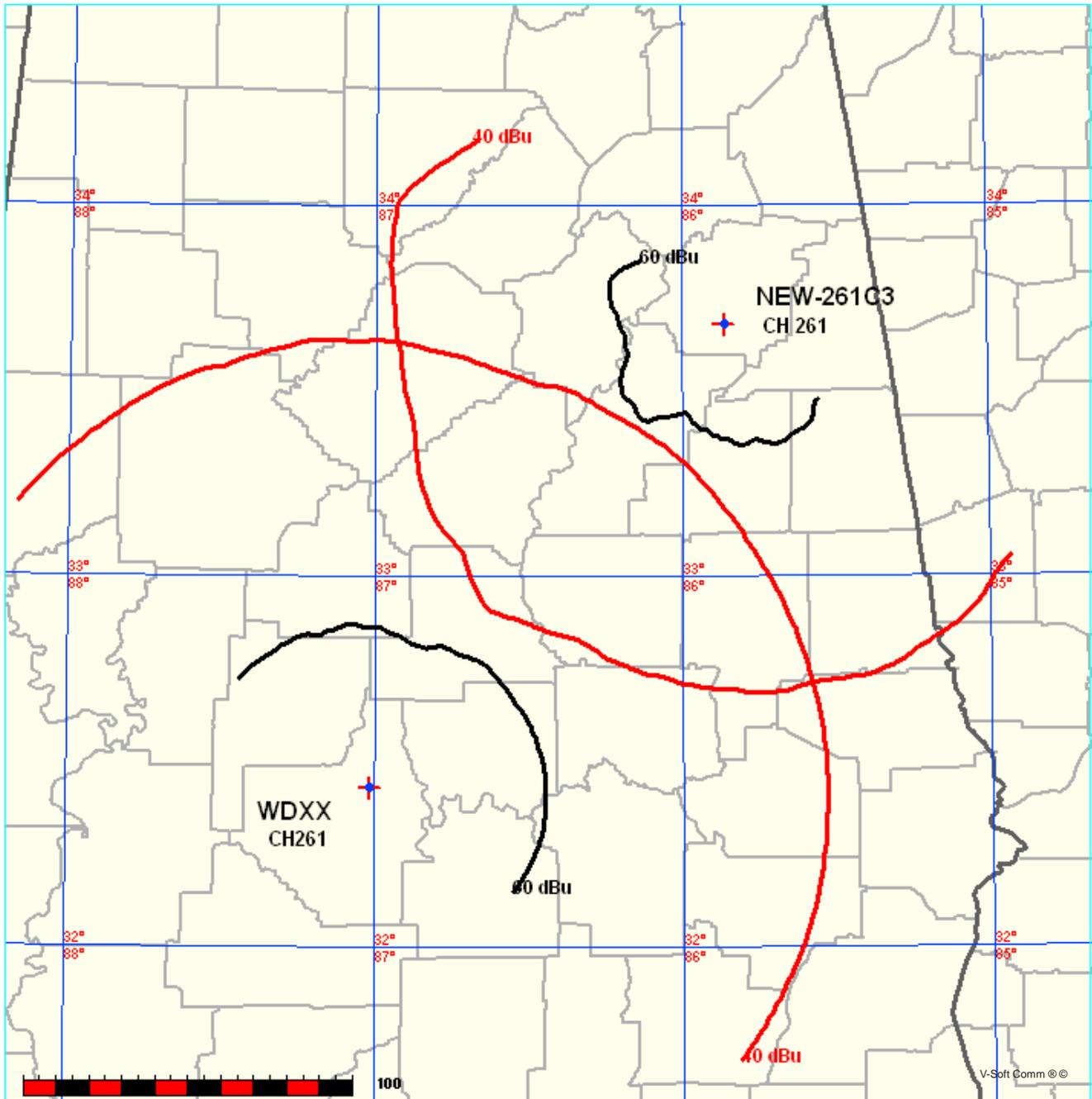
## §73.215 Short-Spaced Contour Protection Studies Toward WDXX.L(FM) - Selma, AL (Max Class Facilities)

Anniston Seventh-day Adventist Church

FMCommander Single Allocation Study - 06-20-2012 - NGDC 30 SEC  
NEW-261C3's Overlaps (In= 5.41 km, Out= 16.4 km)

NEW-261C3 CH 261 C3 73.215 Z  
Lat= 33 40 41.8, Lng= 85 51 08.9  
25.0 kW 78.2 M HAAT, 316.4 M COR  
Prot.= 60 dBu, Intef.= 40 dBu

WDXX^ CH 261 C2 BLH19900824KA  
Lat= 32 26 02.0, Lng= 87 00 40.0  
Max Cls: 50.0 kW 150 M HAAT, 201 M COR  
Prot.= 60 dBu, Intef.= 40 dBu



# Exhibit 20.2

## §73.215 Short-Spaced Contour Protection Studies Toward WDXX.L(FM) - Selma, AL (Max Class Facilities)

06-20-2012

Terrain Data: NGDC 30 SEC

FMOver Analysis

NEW-261C3

Channel = 261C3  
Max ERP = 25 kW  
RCAMSL = 316.4 M  
N. Lat. 33 40 41.8  
W. Lng. 85 51 08.9  
Protected  
60 dBu

WDXX BLH19900824KA  
(^ Max Class Parameters)  
Channel = 261C2  
Max ERP = 50 kW  
RCAMSL = 201 M  
N. Lat. 32 26 02.0  
W. Lng. 87 00 40.0  
Interfering  
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
175.0	025.0000	0082.5	035.9	047.0	050.0000	0135.1	151.3	37.16	
176.0	025.0000	0082.1	035.8	046.9	050.0000	0135.2	150.9	37.23	
177.0	025.0000	0079.7	035.3	046.6	050.0000	0135.3	150.7	37.26	
178.0	025.0000	0077.1	034.8	046.3	050.0000	0135.3	150.6	37.28	
179.0	025.0000	0074.5	034.3	046.0	050.0000	0135.4	150.5	37.30	
180.0	025.0000	0074.3	034.2	045.8	050.0000	0135.3	150.1	37.36	
181.0	025.0000	0074.3	034.2	045.6	050.0000	0135.3	149.7	37.43	
182.0	025.0000	0074.3	034.2	045.5	050.0000	0135.2	149.2	37.49	
183.0	025.0000	0073.3	034.0	045.3	050.0000	0135.1	149.0	37.53	
184.0	025.0000	0072.2	033.8	045.0	050.0000	0134.9	148.8	37.56	
185.0	025.0000	0070.5	033.4	044.8	050.0000	0134.7	148.7	37.57	
186.0	025.0000	0070.2	033.3	044.6	050.0000	0134.5	148.3	37.62	
187.0	025.0000	0070.0	033.3	044.4	050.0000	0134.4	148.0	37.67	
188.0	025.0000	0069.0	033.1	044.2	050.0000	0134.1	147.8	37.70	
189.0	025.0000	0067.0	032.6	043.9	050.0000	0133.8	147.9	37.68	
190.0	025.0000	0065.6	032.3	043.6	050.0000	0133.6	147.8	37.69	
191.0	025.0000	0064.9	032.1	043.4	050.0000	0133.4	147.6	37.71	
192.0	025.0000	0064.8	032.1	043.2	050.0000	0133.2	147.3	37.76	
193.0	025.0000	0065.2	032.2	043.1	050.0000	0133.1	147.0	37.81	
194.0	025.0000	0065.3	032.2	042.9	050.0000	0132.9	146.7	37.86	
195.0	025.0000	0064.3	032.0	042.6	050.0000	0132.6	146.6	37.86	
196.0	025.0000	0062.6	031.6	042.4	050.0000	0132.4	146.7	37.84	
197.0	025.0000	0061.3	031.3	042.1	050.0000	0132.1	146.7	37.83	
198.0	025.0000	0060.7	031.2	041.9	050.0000	0131.9	146.6	37.85	
199.0	025.0000	0060.4	031.2	041.7	050.0000	0131.7	146.5	37.87	
200.0	025.0000	0059.7	031.0	041.5	050.0000	0131.4	146.4	37.87	
201.0	025.0000	0058.3	030.7	041.3	050.0000	0131.1	146.5	37.84	
202.0	025.0000	0056.6	030.2	041.0	050.0000	0130.6	146.7	37.79	
203.0	025.0000	0054.8	029.8	040.8	050.0000	0130.2	147.0	37.74	
204.0	025.0000	0053.1	029.4	040.5	050.0000	0129.7	147.2	37.68	
205.0	025.0000	0052.3	029.1	040.3	050.0000	0129.2	147.3	37.66	
206.0	025.0000	0052.6	029.2	040.1	050.0000	0128.8	147.1	37.68	
207.0	025.0000	0053.8	029.5	040.0	050.0000	0128.4	146.7	37.74	
208.0	025.0000	0055.8	030.0	039.8	050.0000	0128.1	146.1	37.84	

**MUNN-REESE, INC.**

Broadcast Engineering Consultants  
COLDWATER, MI 49036

# Exhibit 20.2

## §73.215 Short-Spaced Contour Protection Studies Toward WDXX.L(FM) - Selma, AL (Max Class Facilities)

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Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
209.0	025.0000	0058.1	030.6	039.6	050.0000	0127.7	145.4	37.94
210.0	025.0000	0060.5	031.2	039.5	050.0000	0127.3	144.8	38.05
211.0	025.0000	0062.9	031.7	039.3	050.0000	0126.9	144.1	38.15
212.0	025.0000	0065.1	032.2	039.1	050.0000	0126.5	143.6	38.24
213.0	025.0000	0067.1	032.7	038.9	050.0000	0126.1	143.1	38.33
214.0	025.0000	0069.2	033.1	038.7	050.0000	0125.7	142.6	38.41
215.0	025.0000	0071.4	033.6	038.5	050.0000	0125.2	142.0	38.50
216.0	025.0000	0074.0	034.1	038.3	050.0000	0124.8	141.4	38.60
217.0	025.0000	0077.2	034.8	038.0	050.0000	0124.5	140.8	38.72
218.0	025.0000	0081.4	035.7	037.8	050.0000	0124.1	139.9	38.88
219.0	025.0000	0086.3	036.6	037.5	050.0000	0123.7	138.9	39.05
220.0	025.0000	0091.3	037.6	037.3	050.0000	0123.2	138.0	39.22
221.0	023.9904	0095.6	038.0	037.0	050.0000	0122.8	137.6	39.28
222.0	023.0016	0099.1	038.3	036.7	050.0000	0122.3	137.4	39.31
223.0	022.0336	0101.8	038.4	036.4	050.0000	0121.8	137.4	39.30
224.0	021.0865	0103.8	038.3	036.1	050.0000	0121.3	137.5	39.27
225.0	020.1601	0105.5	038.2	035.9	050.0000	0120.8	137.7	39.22
226.0	019.2545	0106.9	038.1	035.6	050.0000	0120.2	137.9	39.15
227.0	018.3698	0108.0	037.9	035.4	050.0000	0119.7	138.3	39.07
228.0	017.5059	0108.8	037.6	035.1	050.0000	0119.2	138.7	38.98
229.0	016.6627	0109.6	037.3	034.9	050.0000	0118.6	139.1	38.89
230.0	015.8404	0110.6	037.1	034.6	050.0000	0118.1	139.5	38.79
231.0	015.8404	0111.8	037.3	034.4	050.0000	0117.5	139.5	38.77
232.0	015.8404	0113.0	037.4	034.1	050.0000	0117.0	139.5	38.75
233.0	015.8404	0114.3	037.6	033.8	050.0000	0116.4	139.6	38.73
234.0	015.8404	0115.7	037.8	033.5	050.0000	0115.9	139.6	38.71
235.0	015.8404	0116.9	037.9	033.3	050.0000	0115.6	139.7	38.68
236.0	015.8404	0117.5	038.0	033.0	050.0000	0115.3	139.9	38.64
237.0	015.8404	0117.2	038.0	032.8	050.0000	0115.1	140.2	38.57
238.0	015.8404	0116.0	037.8	032.5	050.0000	0114.9	140.6	38.49
239.0	015.8404	0114.1	037.6	032.3	050.0000	0114.8	141.1	38.39
240.0	015.8404	0111.7	037.3	032.2	050.0000	0114.7	141.7	38.27
241.0	015.8404	0109.5	036.9	032.0	050.0000	0114.7	142.3	38.16
242.0	015.8404	0107.5	036.6	031.8	050.0000	0114.7	142.9	38.05
243.0	015.8404	0105.7	036.4	031.7	050.0000	0114.7	143.4	37.95
244.0	015.8404	0103.4	036.0	031.5	050.0000	0114.7	144.1	37.83
245.0	015.8404	0100.6	035.6	031.4	050.0000	0114.7	144.8	37.70
246.0	015.8404	0097.6	035.1	031.3	050.0000	0114.7	145.5	37.57
247.0	015.8404	0094.6	034.6	031.2	050.0000	0114.7	146.3	37.43
248.0	015.8404	0091.8	034.1	031.1	050.0000	0114.7	147.1	37.30
249.0	015.8404	0089.0	033.5	031.1	050.0000	0114.7	147.8	37.17
250.0	015.8404	0086.0	033.0	031.0	050.0000	0114.7	148.6	37.04
251.0	015.8404	0083.1	032.4	031.0	050.0000	0114.7	149.4	36.91
252.0	015.8404	0080.8	032.0	030.9	050.0000	0114.8	150.1	36.79
253.0	015.8404	0079.3	031.7	030.9	050.0000	0114.8	150.7	36.69
254.0	015.8404	0078.4	031.5	030.7	050.0000	0114.8	151.2	36.61
255.0	015.8404	0077.9	031.4	030.6	050.0000	0114.9	151.7	36.54

# Exhibit 20.2

## §73.215 Short-Spaced Contour Protection Studies Toward WDXX.L(FM) - Selma, AL (Max Class Facilities)

06-20-2012

Terrain Data: NGDC 30 SEC

FMOver Analysis

WDXX BLH19900824KA  
 (^ Max Class Parameters)  
 Channel = 261C2  
 Max ERP = 50 kW  
 RCAMSL = 201 M  
 N. Lat. 32 26 02.0  
 W. Lng. 87 00 40.0  
 Protected  
 60 dBu

NEW-261C3  
 Channel = 261C3  
 Max ERP = 25 kW  
 RCAMSL = 316.4 M  
 N. Lat. 33 40 41.8  
 W. Lng. 85 51 08.9  
 Interfering  
 40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
353.0	050.0000	0125.7	048.8	232.0	015.8404	0113.0	144.8	32.66	
354.0	050.0000	0124.8	048.7	231.8	015.8404	0112.8	144.2	32.77	
355.0	050.0000	0122.5	048.3	231.5	015.8404	0112.4	143.6	32.85	
356.0	050.0000	0120.4	048.0	231.2	015.8404	0112.0	143.1	32.94	
357.0	050.0000	0118.0	047.7	230.9	015.8404	0111.6	142.7	33.01	
358.0	050.0000	0116.5	047.5	230.6	015.8404	0111.3	142.1	33.10	
359.0	050.0000	0116.9	047.5	230.4	015.8404	0111.1	141.4	33.23	
000.0	050.0000	0117.4	047.6	230.2	015.8404	0110.9	140.8	33.35	
001.0	050.0000	0117.9	047.7	230.0	015.8404	0110.6	140.1	33.48	
002.0	050.0000	0117.2	047.6	229.8	016.0216	0110.3	139.5	33.62	
003.0	050.0000	0116.2	047.4	229.5	016.2516	0110.1	139.0	33.77	
004.0	050.0000	0115.2	047.3	229.2	016.4906	0109.8	138.6	33.92	
005.0	050.0000	0112.8	046.9	228.9	016.7821	0109.5	138.3	34.05	
006.0	050.0000	0110.2	046.5	228.5	017.0904	0109.2	138.0	34.17	
007.0	050.0000	0108.2	046.1	228.1	017.3803	0108.9	137.7	34.29	
008.0	050.0000	0106.8	045.9	227.8	017.6540	0108.7	137.4	34.42	
009.0	050.0000	0106.5	045.9	227.6	017.8915	0108.5	136.9	34.56	
010.0	050.0000	0106.3	045.8	227.3	018.1291	0108.3	136.5	34.70	
011.0	050.0000	0105.4	045.7	227.0	018.3982	0108.0	136.1	34.82	
012.0	050.0000	0104.2	045.5	226.6	018.6851	0107.6	135.8	34.94	
013.0	050.0000	0102.4	045.2	226.3	018.9935	0107.2	135.6	35.03	
014.0	050.0000	0100.5	044.8	225.9	019.3142	0106.8	135.5	35.12	
015.0	050.0000	0098.9	044.6	225.6	019.6235	0106.4	135.4	35.21	
016.0	050.0000	0097.9	044.4	225.3	019.9174	0105.9	135.1	35.30	
017.0	050.0000	0097.5	044.3	225.0	020.1972	0105.4	134.8	35.41	
018.0	050.0000	0097.6	044.3	224.7	020.4637	0105.0	134.5	35.52	
019.0	050.0000	0098.0	044.4	224.4	020.7301	0104.5	134.1	35.64	
020.0	050.0000	0098.1	044.4	224.1	021.0088	0103.9	133.7	35.75	
021.0	050.0000	0098.0	044.4	223.8	021.2988	0103.4	133.4	35.85	
022.0	050.0000	0098.7	044.5	223.5	021.5742	0102.8	133.0	35.96	
023.0	050.0000	0100.9	044.9	223.2	021.8200	0102.3	132.4	36.12	
024.0	050.0000	0104.3	045.5	223.0	022.0510	0101.8	131.6	36.31	
025.0	050.0000	0108.0	046.1	222.7	022.2914	0101.1	130.8	36.49	

## Exhibit 20.2

# §73.215 Short-Spaced Contour Protection Studies Toward WDXX.L(FM) - Selma, AL (Max Class Facilities)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
026.0	050.0000	0111.2	046.6	222.5	022.5587	0100.4	130.0	36.66
027.0	050.0000	0113.4	047.0	222.1	022.8586	0099.6	129.5	36.80
028.0	050.0000	0114.6	047.2	221.8	023.1865	0098.5	129.1	36.90
029.0	050.0000	0115.0	047.2	221.5	023.5329	0097.4	128.9	36.97
030.0	050.0000	0115.0	047.2	221.1	023.8906	0096.0	128.7	37.02
031.0	050.0000	0114.7	047.2	220.7	024.2567	0094.5	128.6	37.06
032.0	050.0000	0114.7	047.2	220.4	024.6241	0093.0	128.5	37.09
033.0	050.0000	0115.3	047.3	220.0	024.9905	0091.3	128.3	37.14
034.0	050.0000	0116.8	047.5	219.7	025.0000	0089.6	128.0	37.14
035.0	050.0000	0118.9	047.8	219.3	025.0000	0087.7	127.6	37.15
036.0	050.0000	0121.0	048.1	218.9	025.0000	0085.9	127.2	37.15
037.0	050.0000	0122.8	048.4	218.5	025.0000	0084.0	127.0	37.14
038.0	050.0000	0124.4	048.6	218.2	025.0000	0082.2	126.7	37.12
039.0	050.0000	0126.3	048.9	217.8	025.0000	0080.5	126.5	37.10
040.0	050.0000	0128.5	049.2	217.4	025.0000	0078.8	126.2	37.10
041.0	050.0000	0130.6	049.5	217.0	025.0000	0077.1	125.9	37.08
042.0	050.0000	0132.0	049.7	216.6	025.0000	0075.6	125.8	37.05
043.0	050.0000	0133.0	049.8	216.2	025.0000	0074.5	125.8	37.02
044.0	050.0000	0133.9	050.0	215.8	025.0000	0073.4	125.8	36.98
045.0	050.0000	0134.9	050.1	215.4	025.0000	0072.3	125.8	36.94
046.0	050.0000	0135.4	050.2	215.0	025.0000	0071.3	125.9	36.89
047.0	050.0000	0135.1	050.1	214.6	025.0000	0070.4	126.1	36.82
048.0	050.0000	0134.7	050.1	214.2	025.0000	0069.6	126.4	36.74
049.0	050.0000	0134.5	050.1	213.8	025.0000	0068.8	126.6	36.66
050.0	050.0000	0134.7	050.1	213.4	025.0000	0068.0	126.8	36.60
051.0	050.0000	0135.0	050.1	213.1	025.0000	0067.3	127.1	36.52
052.0	050.0000	0134.9	050.1	212.7	025.0000	0066.5	127.3	36.44
053.0	050.0000	0134.8	050.1	212.3	025.0000	0065.7	127.7	36.36
054.0	050.0000	0134.7	050.1	212.0	025.0000	0065.0	128.0	36.27
055.0	050.0000	0134.9	050.1	211.6	025.0000	0064.2	128.3	36.18
056.0	050.0000	0135.4	050.2	211.2	025.0000	0063.4	128.6	36.09
057.0	050.0000	0135.8	050.2	210.9	025.0000	0062.6	128.9	36.00
058.0	050.0000	0136.3	050.3	210.5	025.0000	0061.7	129.3	35.91
059.0	050.0000	0136.9	050.4	210.1	025.0000	0060.8	129.6	35.81
060.0	050.0000	0136.9	050.4	209.8	025.0000	0060.0	130.1	35.70
061.0	050.0000	0137.1	050.4	209.5	025.0000	0059.2	130.5	35.58
062.0	050.0000	0137.7	050.5	209.1	025.0000	0058.3	130.9	35.48
063.0	050.0000	0139.0	050.7	208.8	025.0000	0057.5	131.3	35.38
064.0	050.0000	0140.1	050.8	208.4	025.0000	0056.6	131.6	35.27
065.0	050.0000	0141.0	051.0	208.1	025.0000	0055.9	132.1	35.16
066.0	050.0000	0141.6	051.1	207.7	025.0000	0055.2	132.6	35.03
067.0	050.0000	0142.5	051.2	207.4	025.0000	0054.5	133.0	34.92
068.0	050.0000	0143.4	051.3	207.1	025.0000	0053.9	133.5	34.80
069.0	050.0000	0144.2	051.4	206.8	025.0000	0053.4	134.0	34.68
070.0	050.0000	0145.1	051.5	206.4	025.0000	0053.0	134.6	34.56

# Exhibit 20.3

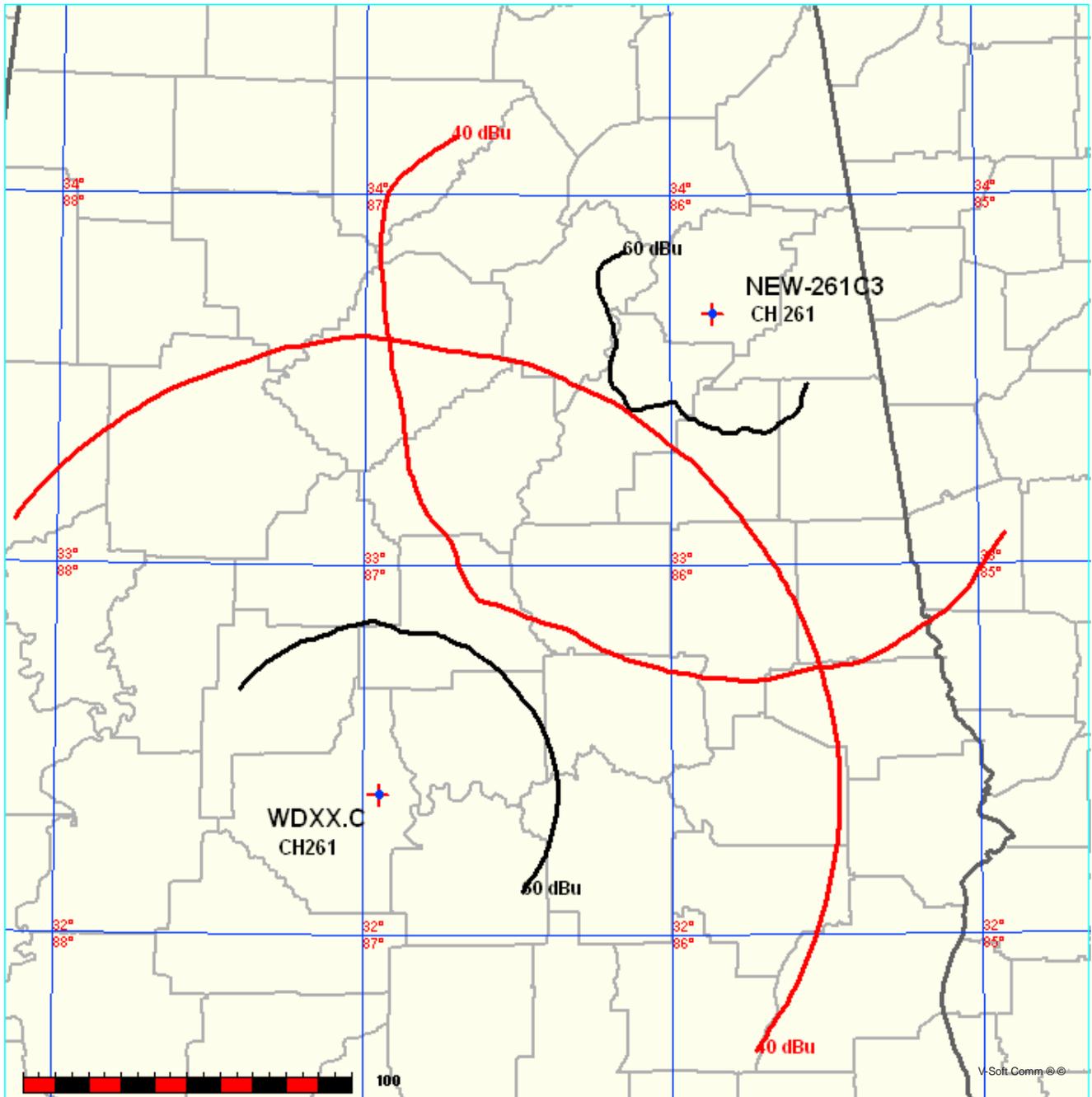
## §73.215 Short-Spaced Contour Protection Studies Toward WDXX.C(FM) - Selma, AL (Max Class Facilities)

Anniston Seventh-day Adventist Church

FMCommander Single Allocation Study - 06-20-2012 - NGDC 30 SEC  
NEW-261C3's Overlaps (In= 6.0 km, Out= 16.65 km)

NEW-261C3 CH 261 C3 73.215 Z  
Lat= 33 40 41.8, Lng= 85 51 08.9  
25.0 kW 78.2 M HAAT, 316.4 M COR  
Prot.= 60 dBu, Intef.= 40 dBu

WDXX-C^ CH 261 C2 BPH20110930AAV  
Lat= 32 22 54.0, Lng= 86 56 37.0  
Max Cls: 50.0 kW 150 M HAAT, 199.3 M COR  
Prot.= 60 dBu, Intef.= 40 dBu



# Exhibit 20.3

## §73.215 Short-Spaced Contour Protection Studies Toward WDXX.C(FM) - Selma, AL (Max Class Facilities)

06-20-2012

Terrain Data: NGDC 30 SEC

FMOver Analysis

NEW-261C3

Channel = 261C3  
 Max ERP = 25 kW  
 RCAMSL = 316.4 M  
 N. Lat. 33 40 41.8  
 W. Lng. 85 51 08.9  
 Protected  
 60 dBu

WDXX.C BPH20110930AAV  
 (^ Max Class Parameters)  
 Channel = 261C2  
 Max ERP = 50 kW  
 RCAMSL = 199.3 M  
 N. Lat. 32 22 54.0  
 W. Lng. 86 56 37.0  
 Interfering  
 40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
175.0	025.0000	0082.5	035.9	043.8	050.0000	0146.9	150.9	37.55	
176.0	025.0000	0082.1	035.8	043.6	050.0000	0146.7	150.4	37.61	
177.0	025.0000	0079.7	035.3	043.3	050.0000	0146.3	150.3	37.62	
178.0	025.0000	0077.1	034.8	043.0	050.0000	0145.9	150.2	37.62	
179.0	025.0000	0074.5	034.3	042.7	050.0000	0145.5	150.2	37.61	
180.0	025.0000	0074.3	034.2	042.6	050.0000	0145.2	149.8	37.67	
181.0	025.0000	0074.3	034.2	042.4	050.0000	0145.0	149.4	37.72	
182.0	025.0000	0074.3	034.2	042.2	050.0000	0144.7	149.0	37.78	
183.0	025.0000	0073.3	034.0	042.0	050.0000	0144.4	148.8	37.81	
184.0	025.0000	0072.2	033.8	041.7	050.0000	0144.1	148.6	37.83	
185.0	025.0000	0070.5	033.4	041.5	050.0000	0143.8	148.6	37.83	
186.0	025.0000	0070.2	033.3	041.3	050.0000	0143.6	148.3	37.88	
187.0	025.0000	0070.0	033.3	041.1	050.0000	0143.4	148.0	37.92	
188.0	025.0000	0069.0	033.1	040.9	050.0000	0143.1	147.8	37.94	
189.0	025.0000	0067.0	032.6	040.6	050.0000	0142.9	147.9	37.92	
190.0	025.0000	0065.6	032.3	040.3	050.0000	0142.8	147.9	37.92	
191.0	025.0000	0064.9	032.1	040.1	050.0000	0142.6	147.7	37.94	
192.0	025.0000	0064.8	032.1	039.9	050.0000	0142.5	147.5	37.98	
193.0	025.0000	0065.2	032.2	039.7	050.0000	0142.4	147.2	38.03	
194.0	025.0000	0065.3	032.2	039.6	050.0000	0142.3	146.9	38.08	
195.0	025.0000	0064.3	032.0	039.3	050.0000	0142.3	146.8	38.08	
196.0	025.0000	0062.6	031.6	039.1	050.0000	0142.3	147.0	38.06	
197.0	025.0000	0061.3	031.3	038.8	050.0000	0142.2	147.0	38.05	
198.0	025.0000	0060.7	031.2	038.6	050.0000	0142.2	146.9	38.07	
199.0	025.0000	0060.4	031.2	038.4	050.0000	0142.2	146.8	38.09	
200.0	025.0000	0059.7	031.0	038.2	050.0000	0142.2	146.8	38.09	
201.0	025.0000	0058.3	030.7	037.9	050.0000	0142.1	147.0	38.06	
202.0	025.0000	0056.6	030.2	037.7	050.0000	0142.1	147.2	38.02	
203.0	025.0000	0054.8	029.8	037.5	050.0000	0142.1	147.5	37.97	
204.0	025.0000	0053.1	029.4	037.2	050.0000	0142.0	147.8	37.92	
205.0	025.0000	0052.3	029.1	037.0	050.0000	0142.0	147.9	37.90	
206.0	025.0000	0052.6	029.2	036.8	050.0000	0141.9	147.7	37.93	

# Exhibit 20.3

## §73.215 Short-Spaced Contour Protection Studies Toward WDXX.C(FM) - Selma, AL (Max Class Facilities)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
207.0	025.0000	0053.8	029.5	036.7	050.0000	0141.9	147.3	38.00
208.0	025.0000	0055.8	030.0	036.5	050.0000	0141.8	146.7	38.10
209.0	025.0000	0058.1	030.6	036.3	050.0000	0141.8	146.1	38.20
210.0	025.0000	0060.5	031.2	036.1	050.0000	0141.8	145.5	38.31
211.0	025.0000	0062.9	031.7	035.9	050.0000	0141.7	144.9	38.41
212.0	025.0000	0065.1	032.2	035.7	050.0000	0141.6	144.3	38.51
213.0	025.0000	0067.1	032.7	035.5	050.0000	0141.6	143.9	38.60
214.0	025.0000	0069.2	033.1	035.3	050.0000	0141.6	143.4	38.69
215.0	025.0000	0071.4	033.6	035.1	050.0000	0141.6	142.9	38.78
216.0	025.0000	0074.0	034.1	034.9	050.0000	0141.6	142.3	38.88
217.0	025.0000	0077.2	034.8	034.6	050.0000	0141.7	141.7	39.01
218.0	025.0000	0081.4	035.7	034.3	050.0000	0141.8	140.8	39.17
219.0	025.0000	0086.3	036.6	034.1	050.0000	0142.0	139.9	39.35
220.0	025.0000	0091.3	037.6	033.8	050.0000	0142.3	139.1	39.53
221.0	023.9904	0095.6	038.0	033.5	050.0000	0142.6	138.7	39.61
222.0	023.0016	0099.1	038.3	033.2	050.0000	0143.0	138.5	39.65
223.0	022.0336	0101.8	038.4	032.9	050.0000	0143.4	138.6	39.66
224.0	021.0865	0103.8	038.3	032.6	050.0000	0143.7	138.7	39.64
225.0	020.1601	0105.5	038.2	032.4	050.0000	0144.0	138.9	39.60
226.0	019.2545	0106.9	038.1	032.1	050.0000	0144.2	139.2	39.55
227.0	018.3698	0108.0	037.9	031.9	050.0000	0144.2	139.6	39.48
228.0	017.5059	0108.8	037.6	031.7	050.0000	0144.3	140.0	39.40
229.0	016.6627	0109.6	037.3	031.4	050.0000	0144.2	140.5	39.30
230.0	015.8404	0110.6	037.1	031.2	050.0000	0144.0	140.9	39.21
231.0	015.8404	0111.8	037.3	030.9	050.0000	0143.7	141.0	39.20
232.0	015.8404	0113.0	037.4	030.7	050.0000	0143.3	141.1	39.17
233.0	015.8404	0114.3	037.6	030.4	050.0000	0142.9	141.1	39.14
234.0	015.8404	0115.7	037.8	030.1	050.0000	0142.3	141.2	39.11
235.0	015.8404	0116.9	037.9	029.9	050.0000	0141.8	141.3	39.08
236.0	015.8404	0117.5	038.0	029.6	050.0000	0141.3	141.6	39.02
237.0	015.8404	0117.2	038.0	029.4	050.0000	0140.8	141.9	38.94
238.0	015.8404	0116.0	037.8	029.2	050.0000	0140.4	142.4	38.85
239.0	015.8404	0114.1	037.6	029.0	050.0000	0140.1	142.9	38.74
240.0	015.8404	0111.7	037.3	028.8	050.0000	0139.9	143.5	38.62
241.0	015.8404	0109.5	036.9	028.7	050.0000	0139.7	144.1	38.50
242.0	015.8404	0107.5	036.6	028.5	050.0000	0139.5	144.7	38.39
243.0	015.8404	0105.7	036.4	028.4	050.0000	0139.4	145.3	38.28
244.0	015.8404	0103.4	036.0	028.2	050.0000	0139.3	145.9	38.16
245.0	015.8404	0100.6	035.6	028.1	050.0000	0139.2	146.7	38.03
246.0	015.8404	0097.6	035.1	028.1	050.0000	0139.1	147.4	37.90
247.0	015.8404	0094.6	034.6	028.0	050.0000	0139.0	148.2	37.77
248.0	015.8404	0091.8	034.1	027.9	050.0000	0139.0	149.0	37.64
249.0	015.8404	0089.0	033.5	027.9	050.0000	0138.9	149.7	37.51
250.0	015.8404	0086.0	033.0	027.9	050.0000	0138.9	150.6	37.38

# Exhibit 20.3

## §73.215 Short-Spaced Contour Protection Studies Toward WDXX.C(FM) - Selma, AL (Max Class Facilities)

06-20-2012

Terrain Data: NGDC 30 SEC

FMOver Analysis

WDXX.C BPH20110930AAV  
(^ Max Class Parameters)  
Channel = 261C2  
Max ERP = 50 kW  
RCAMSL = 199.3 M  
N. Lat. 32 22 54.0  
W. Lng. 86 56 37.0  
Protected  
60 dBu

NEW-261C3  
Channel = 261C3  
Max ERP = 25 kW  
RCAMSL = 316.4 M  
N. Lat. 33 40 41.8  
W. Lng. 85 51 08.9  
Interfering  
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
350.0	050.0000	0141.2	051.0	229.9	015.8936	0110.5	144.8	32.61	
351.0	050.0000	0141.3	051.0	229.8	016.0335	0110.3	144.0	32.78	
352.0	050.0000	0142.0	051.1	229.6	016.1642	0110.2	143.2	32.96	
353.0	050.0000	0143.3	051.3	229.5	016.2765	0110.0	142.4	33.14	
354.0	050.0000	0144.7	051.5	229.3	016.3967	0109.9	141.5	33.33	
355.0	050.0000	0145.6	051.6	229.1	016.5401	0109.7	140.7	33.52	
356.0	050.0000	0145.8	051.6	228.9	016.7173	0109.5	140.0	33.70	
357.0	050.0000	0146.0	051.7	228.7	016.9012	0109.3	139.2	33.88	
358.0	050.0000	0145.3	051.6	228.4	017.1281	0109.1	138.6	34.06	
359.0	050.0000	0143.2	051.3	228.1	017.4114	0108.9	138.1	34.22	
000.0	050.0000	0141.1	051.0	227.8	017.7011	0108.7	137.6	34.38	
001.0	050.0000	0139.4	050.8	227.4	017.9815	0108.4	137.2	34.53	
002.0	050.0000	0137.7	050.5	227.1	018.2729	0108.1	136.7	34.68	
003.0	050.0000	0135.7	050.2	226.8	018.5775	0107.8	136.3	34.82	
004.0	050.0000	0133.7	049.9	226.4	018.8887	0107.4	135.9	34.96	
005.0	050.0000	0130.9	049.5	226.0	019.2363	0106.9	135.7	35.08	
006.0	050.0000	0128.9	049.3	225.7	019.5564	0106.5	135.3	35.20	
007.0	050.0000	0127.8	049.1	225.3	019.8536	0106.0	134.9	35.33	
008.0	050.0000	0127.2	049.0	225.0	020.1384	0105.5	134.5	35.47	
009.0	050.0000	0126.9	049.0	224.7	020.4203	0105.0	134.0	35.61	
010.0	050.0000	0127.0	049.0	224.4	020.6969	0104.5	133.5	35.75	
011.0	050.0000	0127.5	049.1	224.1	020.9685	0104.0	133.0	35.89	
012.0	050.0000	0128.5	049.2	223.8	021.2347	0103.5	132.4	36.04	
013.0	050.0000	0129.6	049.4	223.6	021.5056	0103.0	131.8	36.19	
014.0	050.0000	0131.2	049.6	223.3	021.7699	0102.4	131.2	36.35	
015.0	050.0000	0133.2	049.9	223.0	022.0346	0101.8	130.5	36.51	
016.0	050.0000	0135.1	050.1	222.7	022.3134	0101.1	129.9	36.66	
017.0	050.0000	0136.9	050.4	222.4	022.6043	0100.3	129.3	36.81	
018.0	050.0000	0138.7	050.7	222.1	022.9078	0099.4	128.7	36.95	
019.0	050.0000	0139.5	050.8	221.8	023.2456	0098.3	128.2	37.06	
020.0	050.0000	0139.6	050.8	221.4	023.6084	0097.1	127.9	37.15	
021.0	050.0000	0139.6	050.8	221.0	023.9819	0095.6	127.6	37.23	
022.0	050.0000	0139.4	050.7	220.6	024.3648	0094.1	127.3	37.30	

## Exhibit 20.3

# §73.215 Short-Spaced Contour Protection Studies Toward WDXX.C(FM) - Selma, AL (Max Class Facilities)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
023.0	050.0000	0138.5	050.6	220.2	024.7658	0092.4	127.2	37.34
024.0	050.0000	0137.1	050.4	219.8	025.0000	0090.4	127.1	37.32
025.0	050.0000	0136.7	050.4	219.4	025.0000	0088.4	127.0	37.29
026.0	050.0000	0137.3	050.5	219.1	025.0000	0086.5	126.7	37.27
027.0	050.0000	0138.3	050.6	218.7	025.0000	0084.6	126.4	37.27
028.0	050.0000	0139.0	050.7	218.3	025.0000	0082.7	126.1	37.25
029.0	050.0000	0140.2	050.9	217.9	025.0000	0081.0	125.8	37.24
030.0	050.0000	0142.1	051.1	217.5	025.0000	0079.3	125.4	37.25
031.0	050.0000	0143.8	051.4	217.1	025.0000	0077.7	125.1	37.25
032.0	050.0000	0144.2	051.4	216.7	025.0000	0076.1	124.9	37.22
033.0	050.0000	0143.2	051.3	216.3	025.0000	0074.8	125.0	37.16
034.0	050.0000	0142.1	051.1	215.9	025.0000	0073.6	125.1	37.10
035.0	050.0000	0141.6	051.1	215.5	025.0000	0072.5	125.2	37.05
036.0	050.0000	0141.7	051.1	215.1	025.0000	0071.5	125.2	37.02
037.0	050.0000	0142.0	051.1	214.7	025.0000	0070.6	125.2	36.98
038.0	050.0000	0142.1	051.1	214.2	025.0000	0069.7	125.2	36.94
039.0	050.0000	0142.2	051.1	213.8	025.0000	0068.8	125.3	36.90
040.0	050.0000	0142.5	051.2	213.4	025.0000	0068.0	125.3	36.86
041.0	050.0000	0143.3	051.3	213.0	025.0000	0067.2	125.4	36.83
042.0	050.0000	0144.5	051.4	212.6	025.0000	0066.3	125.3	36.80
043.0	050.0000	0145.8	051.6	212.2	025.0000	0065.4	125.3	36.77
044.0	050.0000	0147.1	051.8	211.8	025.0000	0064.6	125.3	36.74
045.0	050.0000	0147.5	051.9	211.3	025.0000	0063.7	125.5	36.67
046.0	050.0000	0146.9	051.8	211.0	025.0000	0062.8	125.8	36.59
047.0	050.0000	0146.0	051.7	210.6	025.0000	0061.9	126.2	36.48
048.0	050.0000	0145.2	051.5	210.2	025.0000	0061.0	126.6	36.38
049.0	050.0000	0144.8	051.5	209.8	025.0000	0060.0	126.9	36.29
050.0	050.0000	0144.9	051.5	209.4	025.0000	0059.1	127.2	36.19
051.0	050.0000	0145.1	051.5	209.1	025.0000	0058.2	127.5	36.10
052.0	050.0000	0144.9	051.5	208.7	025.0000	0057.3	127.9	36.00
053.0	050.0000	0144.8	051.5	208.3	025.0000	0056.5	128.3	35.89
054.0	050.0000	0144.9	051.5	208.0	025.0000	0055.7	128.6	35.78
055.0	050.0000	0145.3	051.6	207.6	025.0000	0054.9	129.0	35.68
056.0	050.0000	0145.8	051.6	207.2	025.0000	0054.2	129.4	35.58
057.0	050.0000	0146.3	051.7	206.9	025.0000	0053.6	129.8	35.48
058.0	050.0000	0147.2	051.8	206.5	025.0000	0053.1	130.1	35.39
059.0	050.0000	0148.5	052.0	206.1	025.0000	0052.7	130.5	35.31
060.0	050.0000	0149.9	052.2	205.7	025.0000	0052.4	130.8	35.23
061.0	050.0000	0151.1	052.3	205.4	025.0000	0052.3	131.2	35.15
062.0	050.0000	0152.0	052.5	205.0	025.0000	0052.3	131.7	35.07
063.0	050.0000	0152.7	052.5	204.7	025.0000	0052.5	132.2	34.98
064.0	050.0000	0153.4	052.6	204.4	025.0000	0052.7	132.7	34.90
065.0	050.0000	0154.0	052.7	204.0	025.0000	0053.1	133.2	34.81