

Technical Exhibit
Application for Construction Permit
Bedford, MI
Channel 209A
.75 kW 71m HAAT
60m AGL

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Predicted Coverage Contours

The proposed HAAT and the predicted 60 dBu contours were calculated in accordance with Section 47 C.F.R. 73.313. The average terrain elevations were calculated using the NED 03 second terrain database.

All contours plotted in exhibits are displayed along 360 radials and in accordance with the propagation prediction curves of Section 73.333. Population figures are drawn from the 2000 US Census.

Interference Compliance

Contour protection, as required by C.F.R. Section 73.509 to co-channel and first, second and third adjacent channels is demonstrated herein by Figures 1 and 2.

TV6 Interference Analysis

The nearest TV6 station WLNS, licensed to Lansing, MI is located 83.64 km from the proposed antenna site. Section 73.525 designates TV 6 stations within 196 km of proposed FM stations on channel 209 to be affected, therefore WLNS is an affected TV 6 station.

Figures 3 to 3-3 demonstrate the proposed is compliant using a vertically-only polarized antenna according to Section 73.525(e)(4)(i). The population within the predicted interference area is 803 persons (See Figure 3-3).

International Borders

The Proposed is within 320 km of the Canadian border. It is fully spaced to all Canadian stations and allotments.

RF Electromagnetic Exposure Analysis

Using a worst case assumption of maximum downward radiation ($F=1.0$) the RF exposure at 2m above ground level is $7.4288 \mu\text{W}/\text{cm}^2$ or 0.7% of the controlled standard. The actual downward radiation is expected to be less with construction of the Proposed utilizing a multi-bay antenna. This is inconsequential when added to the existing antenna on the tower.

The tower is fenced with RF warning signs. The power will be reduced or shut off to allow necessary access to the tower.

REFERENCE	CH#	209A	-	89.7 MHz,	Pwr= 0.75 kW,	HAAT= 70.9 M,	COR= 352.3 M
42 27 12.9 N.						Average Protected F(50-50)= 14.23 km	

REFERENCE			
42	27	12.9	N.
85	20	39.0	W.

Terrain database is NED 03 SEC
ERP and HAAT are on direct line to and from reference station.
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.

Figure 2
Proposed Bedford, MI

FMCommander Single Allocation Study
10-03-2007

NEW	CH 209 A	WCWB-A	CH 211 B1	BMPED20070731EFG
0.75 kW	352.3 M COR DA	25.0 kW,	369.4 M COR DA	
Prot. =	60 dBu	Prot. =	60 dBu	
Intef. =	100 dBu	Intef. =	100 dBu	

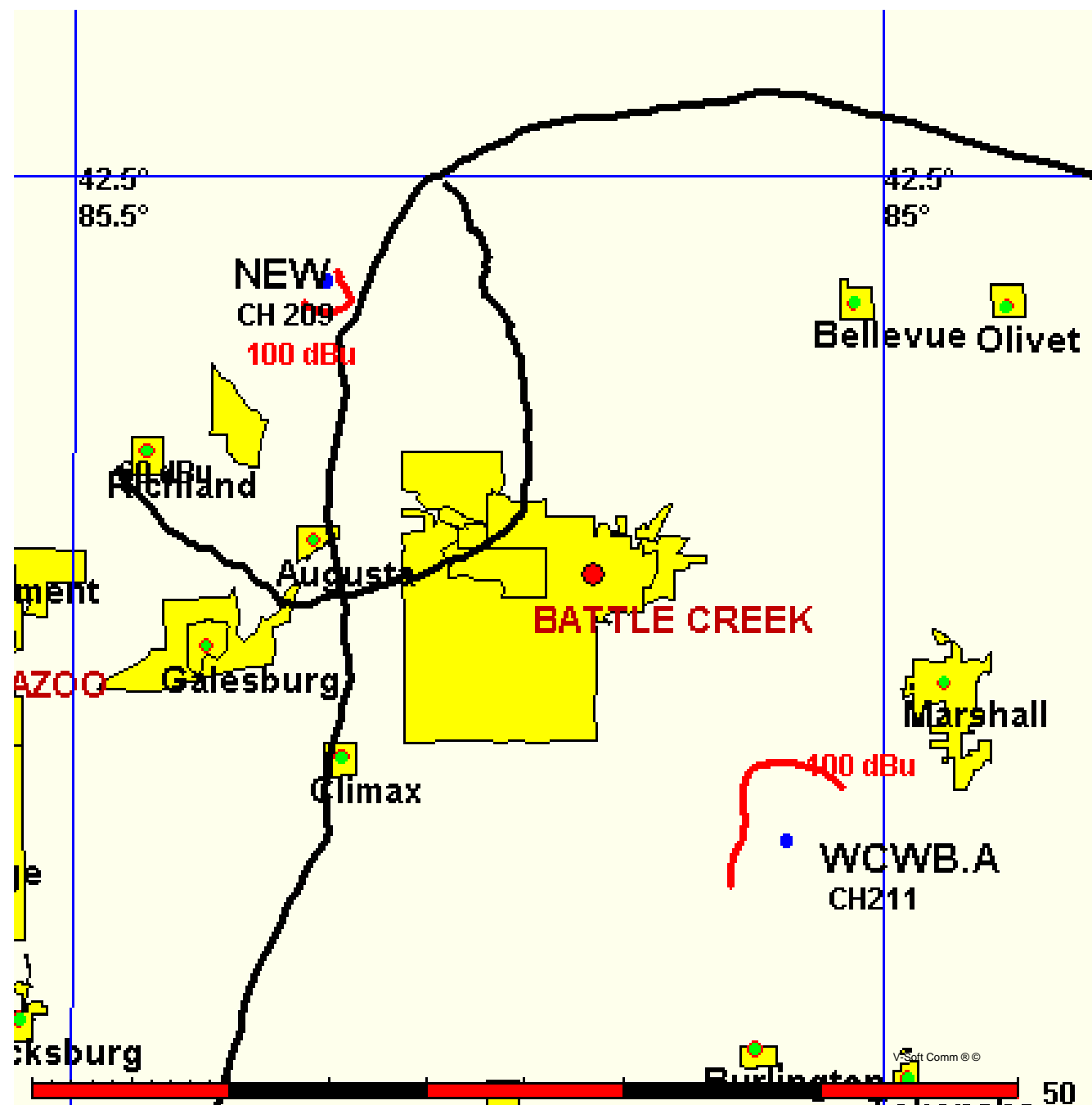


Figure 2-1
Proposed Bedford, MI

FMCommander Single Allocation Study
10-03-2007

NEW	CH 209 A	WKDS	CH 210 A	BLED19830204AK
0.75 kW	352.3 M COR DA	0.14 kW,	303 M COR	
Prot. = 60 dBu		Prot. = 60 dBu		
Intef. = 54 dBu		Intef. = 54 dBu		

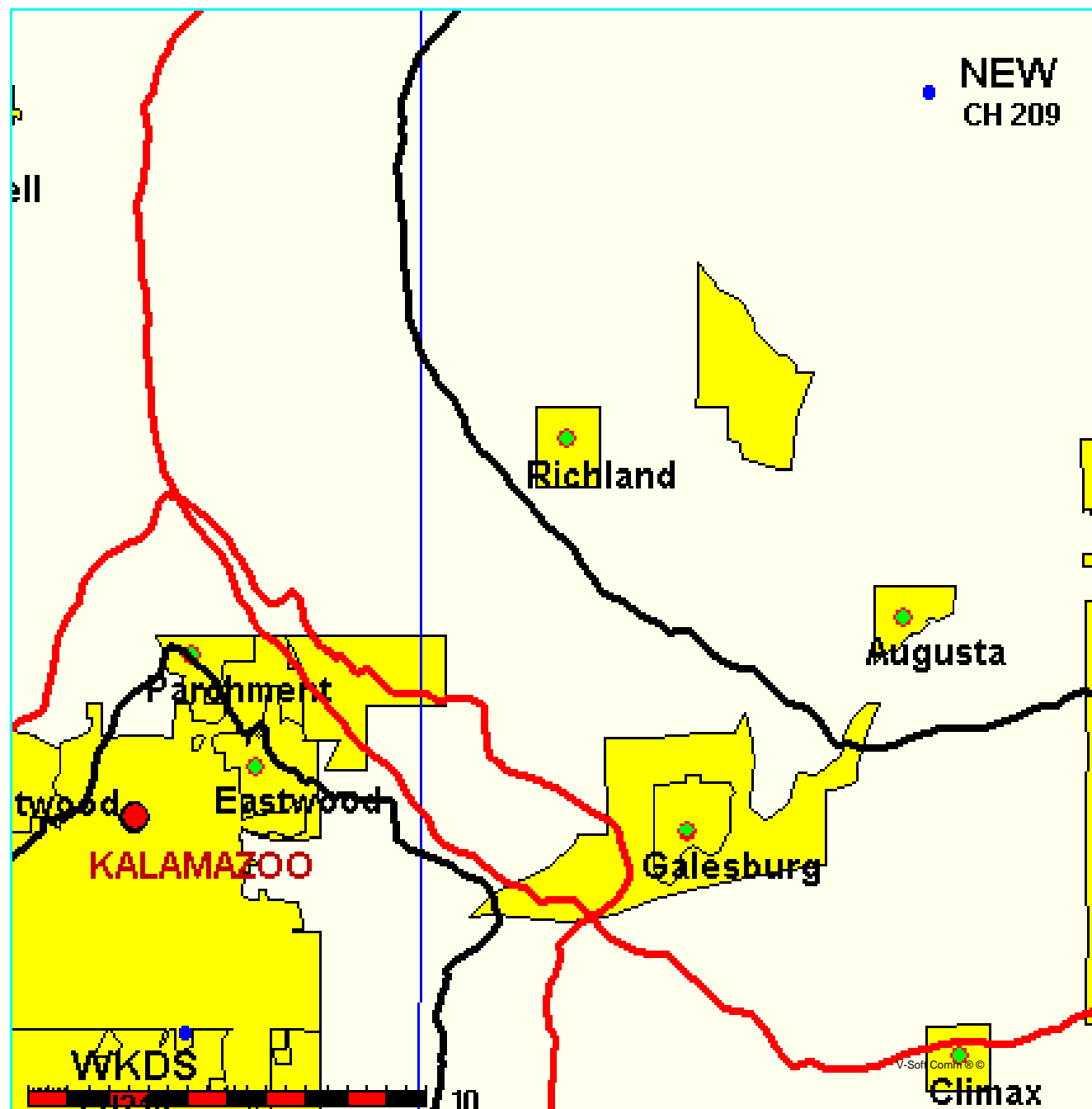


Figure 2-1

01-07-2008

NED 03 SEC Terrain Data

FMOver Analysis

NEW

Channel = 209A

Max ERP = 0.75 kW

RCAMSL = 352.3 M

N. Lat. 42 27 12.9

W. Lng. 85 20 39.0

Protected

60 dBu

WKDS

BLED19830204AK

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

Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Actual (dBu)
159.0	000.7500	0083.5	015.5	069.7	000.1400	0055.7	025.9	41.28
160.0	000.7500	0083.7	015.5	069.8	000.1400	0055.7	025.6	41.47
161.0	000.7500	0084.3	015.6	069.9	000.1400	0055.6	025.4	41.65
162.0	000.7500	0084.4	015.6	069.9	000.1400	0055.6	025.1	41.84
163.0	000.7500	0084.7	015.6	070.0	000.1400	0055.6	024.8	42.03
164.0	000.7500	0084.8	015.6	070.0	000.1400	0055.6	024.6	42.23
165.0	000.7500	0082.7	015.4	069.4	000.1400	0055.7	024.3	42.42
166.0	000.7500	0083.0	015.4	069.4	000.1400	0055.7	024.0	42.62
167.0	000.7500	0083.3	015.5	069.4	000.1400	0055.7	023.8	42.82
168.0	000.7500	0084.4	015.6	069.6	000.1400	0055.7	023.5	43.04
169.0	000.7500	0084.2	015.5	069.4	000.1400	0055.7	023.2	43.23
170.0	000.7500	0084.4	015.6	069.4	000.1400	0055.7	022.9	43.44
171.0	000.7500	0084.9	015.6	069.4	000.1400	0055.7	022.7	43.65
172.0	000.7500	0085.9	015.7	069.5	000.1400	0055.7	022.4	43.88
173.0	000.7500	0085.9	015.7	069.4	000.1400	0055.7	022.1	44.09
174.0	000.7500	0086.8	015.8	069.4	000.1400	0055.7	021.8	44.32
175.0	000.7500	0087.4	015.9	069.4	000.1400	0055.7	021.5	44.54
176.0	000.7500	0087.3	015.9	069.1	000.1400	0055.7	021.3	44.75
177.0	000.7500	0087.0	015.8	068.8	000.1400	0055.8	021.0	44.97
178.0	000.7500	0086.7	015.8	068.5	000.1400	0055.8	020.8	45.18
179.0	000.7500	0086.9	015.8	068.3	000.1400	0055.8	020.5	45.40
180.0	000.7500	0087.7	015.9	068.3	000.1400	0055.9	020.2	45.64
181.0	000.7500	0088.3	016.0	068.1	000.1400	0055.9	019.9	45.88
182.0	000.7500	0089.8	016.1	068.2	000.1400	0055.9	019.6	46.14
183.0	000.7500	0091.0	016.3	068.3	000.1400	0055.9	019.3	46.40
184.0	000.7500	0091.6	016.3	068.1	000.1400	0055.9	019.0	46.65
185.0	000.7500	0092.0	016.4	067.8	000.1400	0056.0	018.7	46.89
186.0	000.7500	0092.2	016.4	067.5	000.1400	0056.1	018.5	47.13
187.0	000.7500	0091.4	016.3	066.8	000.1400	0056.1	018.3	47.31
188.0	000.7500	0092.5	016.4	066.6	000.1400	0056.1	018.0	47.57
189.0	000.7500	0090.3	016.2	065.5	000.1400	0056.4	017.8	47.72
190.0	000.7500	0086.4	015.8	063.9	000.1400	0055.9	017.8	47.63
191.0	000.7500	0085.0	015.6	063.0	000.1400	0054.3	017.7	47.49
192.0	000.7500	0084.9	015.6	062.4	000.1400	0053.4	017.5	47.50
193.0	000.7500	0084.7	015.6	061.8	000.1400	0052.8	017.3	47.57
194.0	000.7500	0082.6	015.4	060.6	000.1400	0051.6	017.3	47.40
195.0	000.7500	0081.5	015.3	059.7	000.1400	0051.0	017.1	47.39
196.0	000.7500	0079.7	015.1	058.7	000.1400	0050.4	017.1	47.32
197.0	000.7500	0078.7	015.0	057.8	000.1400	0049.6	017.0	47.27
198.0	000.7500	0079.4	015.1	057.3	000.1400	0049.4	016.8	47.41
199.0	000.7500	0079.6	015.1	056.6	000.1400	0048.3	016.6	47.35
200.0	000.7500	0079.5	015.1	055.9	000.1400	0047.5	016.4	47.34
201.0	000.7500	0079.0	015.0	055.0	000.1400	0046.6	016.3	47.24
202.0	000.7500	0077.7	014.9	054.0	000.1400	0045.7	016.3	47.08
203.0	000.7500	0076.3	014.8	053.0	000.1400	0044.7	016.3	46.88
204.0	000.7500	0075.6	014.7	052.0	000.1400	0043.8	016.2	46.74
205.0	000.7500	0076.8	014.8	051.4	000.1400	0042.8	016.0	46.71
206.0	000.7500	0078.4	015.0	050.8	000.1400	0042.8	015.7	46.94

Figure 2-1

207.0	000.7500	0077.2	014.8	049.8	000.1400	0042.8	015.7	46.94
208.0	000.7500	0077.8	014.9	049.0	000.1400	0041.9	015.6	46.88
209.0	000.7500	0077.6	014.9	048.1	000.1400	0042.2	015.5	47.00
210.0	000.7500	0077.4	014.9	047.1	000.1400	0042.6	015.5	47.15
211.0	000.7500	0076.7	014.8	046.1	000.1400	0044.1	015.5	47.47
212.0	000.7500	0077.4	014.9	045.3	000.1400	0044.8	015.3	47.76
213.0	000.7500	0077.8	014.9	044.3	000.1400	0045.7	015.2	48.03
214.0	000.7500	0077.4	014.9	043.4	000.1400	0048.5	015.2	48.61
215.0	000.7500	0075.6	014.7	042.3	000.1400	0048.3	015.4	48.45
216.0	000.7500	0075.5	014.7	041.4	000.1400	0047.4	015.3	48.29
217.0	000.7500	0074.5	014.6	040.4	000.1400	0046.7	015.4	48.07
218.0	000.7500	0073.5	014.5	039.4	000.1400	0045.5	015.5	47.75
219.0	000.7500	0072.7	014.4	038.5	000.1400	0043.9	015.6	47.33
220.0	000.7500	0072.9	014.4	037.6	000.1400	0043.4	015.6	47.24
221.0	000.7500	0073.1	014.4	036.6	000.1400	0042.9	015.6	47.13
222.0	000.7500	0073.3	014.5	035.7	000.1400	0042.6	015.6	47.06
223.0	000.7500	0072.4	014.4	034.8	000.1400	0041.8	015.7	46.79
224.0	000.7500	0072.2	014.4	033.9	000.1400	0040.9	015.7	46.52
225.0	000.7500	0072.0	014.3	033.1	000.1400	0039.9	015.8	46.24
226.0	000.7500	0072.1	014.3	032.2	000.1400	0039.4	015.8	46.07
227.0	000.7500	0072.1	014.3	031.3	000.1400	0039.2	015.9	45.98
228.0	000.7500	0071.4	014.3	030.5	000.1400	0039.8	016.0	46.02
229.0	000.7500	0071.2	014.3	029.7	000.1400	0040.0	016.1	45.97
230.0	000.7500	0071.4	014.3	028.8	000.1400	0040.0	016.2	45.92
231.0	000.7500	0072.0	014.3	027.9	000.1400	0040.5	016.2	45.98
232.0	000.7500	0072.4	014.4	027.1	000.1400	0040.6	016.3	45.96
233.0	000.7500	0072.0	014.3	026.3	000.1400	0039.2	016.4	45.51
234.0	000.7500	0072.0	014.3	025.6	000.1400	0039.0	016.6	45.37
235.0	000.7500	0071.1	014.3	025.0	000.1400	0039.7	016.8	45.36
236.0	000.7500	0070.6	014.2	024.3	000.1400	0040.4	016.9	45.37
237.0	000.7500	0070.5	014.2	023.6	000.1400	0040.5	017.1	45.28
238.0	000.7500	0070.7	014.2	022.9	000.1400	0040.5	017.2	45.18
239.0	000.7500	0071.0	014.2	022.2	000.1400	0039.9	017.3	44.93
240.0	000.7500	0071.7	014.3	021.4	000.1400	0040.5	017.4	44.99
241.0	000.7500	0071.4	014.3	020.8	000.1400	0040.6	017.6	44.86
242.0	000.7500	0071.6	014.3	020.2	000.1400	0040.4	017.7	44.69
243.0	000.7500	0071.8	014.3	019.6	000.1400	0041.3	017.9	44.75
244.0	000.7500	0071.8	014.3	019.0	000.1400	0041.2	018.1	44.59
245.0	000.7500	0071.1	014.2	018.6	000.1400	0041.5	018.3	44.47
246.0	000.7500	0070.9	014.2	018.1	000.1400	0042.1	018.5	44.43
247.0	000.7500	0070.5	014.2	017.7	000.1400	0042.8	018.7	44.42
248.0	000.7500	0069.8	014.1	017.4	000.1400	0043.1	018.9	44.29
249.0	000.7500	0068.7	014.0	017.1	000.1400	0043.3	019.2	44.12
250.0	000.7500	0068.2	014.0	016.8	000.1400	0043.8	019.4	44.04
251.0	000.7500	0067.7	013.9	016.5	000.1400	0044.2	019.6	43.94
252.0	000.7500	0067.0	013.9	016.2	000.1400	0044.7	019.9	43.86
253.0	000.7500	0066.2	013.8	016.0	000.1400	0045.1	020.1	43.74
254.0	000.7500	0065.3	013.7	015.9	000.1400	0045.5	020.4	43.63
255.0	000.7500	0064.9	013.7	015.6	000.1400	0046.5	020.6	43.64
256.0	000.7500	0064.6	013.6	015.4	000.1400	0047.8	020.8	43.72
257.0	000.7500	0064.5	013.6	015.1	000.1400	0049.0	021.0	43.78
258.0	000.7500	0064.1	013.6	014.9	000.1400	0049.4	021.2	43.69
259.0	000.7500	0063.7	013.6	014.7	000.1400	0049.8	021.5	43.58
260.0	000.7500	0063.7	013.6	014.4	000.1400	0050.1	021.7	43.47
261.0	000.7500	0063.4	013.5	014.2	000.1400	0050.2	021.9	43.30
262.0	000.7500	0063.2	013.5	014.0	000.1400	0050.1	022.1	43.11
263.0	000.7500	0062.4	013.4	014.0	000.1400	0050.1	022.4	42.90
264.0	000.7500	0061.5	013.4	014.0	000.1400	0050.0	022.6	42.71
265.0	000.7500	0060.8	013.3	013.9	000.1400	0050.0	022.9	42.52
266.0	000.7500	0060.6	013.3	013.8	000.1400	0049.6	023.1	42.27
267.0	000.7500	0060.3	013.3	013.7	000.1400	0049.1	023.3	42.01
268.0	000.7500	0060.6	013.3	013.5	000.1400	0048.3	023.5	41.70
269.0	000.7500	0060.9	013.3	013.2	000.1400	0047.8	023.8	41.43
270.0	000.7500	0059.3	013.2	013.4	000.1400	0048.3	024.0	41.34

Figure 2-1									
271.0	000.7196	0060.1	013.1	013.4	000.1400	0048.3	024.3	41.17	
272.0	000.6898	0060.8	013.0	013.5	000.1400	0048.5	024.5	41.03	
273.0	000.6606	0061.1	012.9	013.6	000.1400	0049.0	024.7	40.95	
274.0	000.6320	0062.0	012.9	013.7	000.1400	0049.2	025.0	40.82	
275.0	000.6041	0061.6	012.7	014.0	000.1400	0050.0	025.2	40.81	
276.0	000.5768	0061.3	012.5	014.3	000.1400	0050.2	025.5	40.68	
277.0	000.5502	0061.3	012.4	014.5	000.1400	0050.0	025.7	40.48	
278.0	000.5242	0061.6	012.3	014.7	000.1400	0049.8	025.9	40.28	
279.0	000.4988	0061.5	012.1	015.0	000.1400	0049.2	026.1	40.03	

01-07-2008 NED 03 SEC Terrain Data

WKDS BLED19830204AK
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

NEW
Channel = 209A
Max ERP = 0.75 kW
RCAMSL = 352.3 M
N. Lat. 42 27 12.9
W. Lng. 85 20 39.0
Interfering
54 dBu

Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Actual (dBu)
339.0	000.1400	0035.0	006.6	230.8	000.7500	0071.9	027.2	49.81
340.0	000.1400	0036.9	006.7	231.0	000.7500	0072.1	027.1	49.93
341.0	000.1400	0039.1	006.9	231.3	000.7500	0072.0	026.9	50.04
342.0	000.1400	0041.7	007.2	231.7	000.7500	0072.3	026.7	50.20
343.0	000.1400	0043.6	007.3	232.0	000.7500	0072.4	026.5	50.34
344.0	000.1400	0045.0	007.5	232.1	000.7500	0072.4	026.4	50.44
345.0	000.1400	0046.0	007.6	232.2	000.7500	0072.3	026.2	50.53
346.0	000.1400	0047.7	007.7	232.4	000.7500	0072.1	026.0	50.64
347.0	000.1400	0050.7	008.0	232.8	000.7500	0072.0	025.8	50.78
348.0	000.1400	0053.0	008.2	233.1	000.7500	0072.1	025.6	50.95
349.0	000.1400	0054.3	008.3	233.2	000.7500	0072.2	025.4	51.08
350.0	000.1400	0055.4	008.4	233.3	000.7500	0072.2	025.2	51.21
351.0	000.1400	0056.9	008.5	233.4	000.7500	0072.3	025.0	51.35
352.0	000.1400	0057.8	008.6	233.4	000.7500	0072.3	024.9	51.46
353.0	000.1400	0058.9	008.7	233.3	000.7500	0072.3	024.7	51.59
354.0	000.1400	0059.6	008.7	233.3	000.7500	0072.2	024.5	51.69
355.0	000.1400	0059.9	008.8	233.1	000.7500	0072.1	024.4	51.78
356.0	000.1400	0062.9	009.0	233.3	000.7500	0072.3	024.2	51.98
357.0	000.1400	0069.8	009.4	234.1	000.7500	0071.9	023.8	52.21
358.0	000.1400	0072.5	009.6	234.2	000.7500	0071.7	023.5	52.36
359.0	000.1400	0072.1	009.6	233.9	000.7500	0072.1	023.4	52.50
000.0	000.1400	0071.1	009.5	233.5	000.7500	0072.3	023.3	52.60
001.0	000.1400	0068.6	009.3	233.0	000.7500	0072.0	023.3	52.59
002.0	000.1400	0066.6	009.2	232.5	000.7500	0072.1	023.2	52.63
003.0	000.1400	0064.8	009.1	232.0	000.7500	0072.4	023.2	52.70
004.0	000.1400	0062.9	009.0	231.5	000.7500	0072.1	023.2	52.69
005.0	000.1400	0060.8	008.8	231.0	000.7500	0072.0	023.1	52.69
006.0	000.1400	0057.2	008.5	230.2	000.7500	0071.4	023.2	52.55
007.0	000.1400	0054.3	008.3	229.6	000.7500	0071.2	023.3	52.48
008.0	000.1400	0051.8	008.1	228.9	000.7500	0071.2	023.4	52.42
009.0	000.1400	0049.7	007.9	228.4	000.7500	0071.3	023.4	52.38
010.0	000.1400	0048.1	007.7	227.9	000.7500	0071.6	023.5	52.40
011.0	000.1400	0046.7	007.6	227.4	000.7500	0072.1	023.5	52.44
012.0	000.1400	0046.6	007.6	227.2	000.7500	0072.1	023.4	52.50
013.0	000.1400	0047.4	007.7	227.0	000.7500	0072.1	023.3	52.60
014.0	000.1400	0050.1	007.9	227.0	000.7500	0072.1	023.0	52.82

Figure 2-1

015.0	000.1400	0049.1	007.8	226.6	000.7500	0072.2	023.0	52.82
016.0	000.1400	0045.1	007.5	225.9	000.7500	0072.0	023.2	52.61
017.0	000.1400	0043.5	007.3	225.4	000.7500	0072.0	023.3	52.56
018.0	000.1400	0042.3	007.2	225.0	000.7500	0072.0	023.3	52.54
019.0	000.1400	0041.2	007.1	224.7	000.7500	0071.9	023.4	52.51
020.0	000.1400	0040.7	007.1	224.3	000.7500	0072.1	023.4	52.53
021.0	000.1400	0040.7	007.1	224.1	000.7500	0072.1	023.3	52.58
022.0	000.1400	0039.9	007.0	223.7	000.7500	0072.2	023.3	52.57
023.0	000.1400	0040.6	007.1	223.5	000.7500	0072.3	023.2	52.65
024.0	000.1400	0040.4	007.0	223.2	000.7500	0072.4	023.2	52.68
025.0	000.1400	0039.6	007.0	222.8	000.7500	0072.5	023.2	52.68
026.0	000.1400	0038.8	006.9	222.5	000.7500	0072.8	023.3	52.69
027.0	000.1400	0040.6	007.1	222.3	000.7500	0073.1	023.1	52.86
028.0	000.1400	0040.4	007.0	222.0	000.7500	0073.3	023.1	52.90
029.0	000.1400	0040.1	007.0	221.7	000.7500	0073.3	023.1	52.90
030.0	000.1400	0040.0	007.0	221.4	000.7500	0073.3	023.1	52.91
031.0	000.1400	0039.5	007.0	221.1	000.7500	0073.1	023.1	52.88
032.0	000.1400	0039.2	006.9	220.8	000.7500	0072.7	023.1	52.83
033.0	000.1400	0039.9	007.0	220.5	000.7500	0072.6	023.0	52.87
034.0	000.1400	0041.0	007.1	220.2	000.7500	0072.8	022.9	52.98
035.0	000.1400	0042.0	007.2	219.9	000.7500	0072.9	022.8	53.07
036.0	000.1400	0042.9	007.3	219.6	000.7500	0072.7	022.7	53.11
037.0	000.1400	0042.8	007.3	219.3	000.7500	0072.6	022.7	53.10
038.0	000.1400	0043.5	007.3	219.0	000.7500	0072.7	022.6	53.17
039.0	000.1400	0044.8	007.4	218.7	000.7500	0073.0	022.5	53.29
040.0	000.1400	0046.3	007.6	218.3	000.7500	0073.3	022.4	53.42
041.0	000.1400	0047.4	007.7	218.0	000.7500	0073.5	022.3	53.52
042.0	000.1400	0048.0	007.7	217.6	000.7500	0073.9	022.2	53.61
043.0	000.1400	0048.2	007.8	217.3	000.7500	0074.2	022.2	53.66
044.0	000.1400	0046.4	007.6	217.0	000.7500	0074.6	022.4	53.56
045.0	000.1400	0045.0	007.5	216.7	000.7500	0075.2	022.6	53.52
046.0	000.1400	0044.2	007.4	216.4	000.7500	0075.6	022.6	53.49
047.0	000.1400	0042.8	007.3	216.1	000.7500	0075.5	022.8	53.38
048.0	000.1400	0042.2	007.2	215.8	000.7500	0075.5	022.9	53.31
049.0	000.1400	0041.9	007.2	215.5	000.7500	0075.7	022.9	53.30
050.0	000.1400	0043.1	007.3	215.2	000.7500	0075.6	022.9	53.34
051.0	000.1400	0042.6	007.2	214.9	000.7500	0075.7	022.9	53.29
052.0	000.1400	0043.7	007.3	214.5	000.7500	0076.2	022.9	53.40
053.0	000.1400	0044.7	007.4	214.1	000.7500	0077.1	022.8	53.52
054.0	000.1400	0045.7	007.5	213.8	000.7500	0077.8	022.8	53.64
055.0	000.1400	0046.6	007.6	213.4	000.7500	0077.5	022.8	53.63
056.0	000.1400	0047.6	007.7	213.0	000.7500	0077.8	022.7	53.69
057.0	000.1400	0048.9	007.8	212.5	000.7500	0077.9	022.7	53.74
058.0	000.1400	0049.8	007.9	212.1	000.7500	0077.6	022.6	53.73
059.0	000.1400	0050.6	008.0	211.7	000.7500	0077.1	022.6	53.66
060.0	000.1400	0051.0	008.0	211.4	000.7500	0076.7	022.7	53.60
061.0	000.1400	0051.9	008.1	211.0	000.7500	0076.6	022.7	53.59
062.0	000.1400	0053.1	008.2	210.5	000.7500	0076.9	022.7	53.64
063.0	000.1400	0054.4	008.3	210.1	000.7500	0077.3	022.6	53.70
064.0	000.1400	0056.1	008.5	209.6	000.7500	0077.8	022.6	53.78
065.0	000.1400	0056.5	008.5	209.2	000.7500	0077.7	022.6	53.73
066.0	000.1400	0056.5	008.5	208.9	000.7500	0077.6	022.7	53.65
067.0	000.1400	0056.1	008.5	208.7	000.7500	0077.6	022.9	53.56
068.0	000.1400	0055.9	008.4	208.4	000.7500	0077.6	023.0	53.49
069.0	000.1400	0055.7	008.4	208.1	000.7500	0077.7	023.1	53.42
070.0	000.1400	0055.6	008.4	207.9	000.7500	0077.8	023.2	53.35
071.0	000.1400	0055.0	008.4	207.7	000.7500	0077.9	023.3	53.26
072.0	000.1400	0053.3	008.2	207.7	000.7500	0077.9	023.5	53.10
073.0	000.1400	0050.6	008.0	207.9	000.7500	0077.8	023.8	52.89
074.0	000.1400	0046.5	007.6	208.3	000.7500	0077.7	024.2	52.61
075.0	000.1400	0041.1	007.1	208.9	000.7500	0077.6	024.6	52.29
076.0	000.1400	0039.0	006.9	209.0	000.7500	0077.6	024.8	52.14
077.0	000.1400	0036.9	006.7	209.1	000.7500	0077.7	025.0	51.99
078.0	000.1400	0037.0	006.8	209.0	000.7500	0077.6	025.1	51.93

Figure 2-1

079.0	000.1400	0036.6	006.7	208.8	000.7500	0077.6	025.2	51.85
080.0	000.1400	0035.9	006.7	208.8	000.7500	0077.6	025.3	51.76
081.0	000.1400	0035.2	006.6	208.7	000.7500	0077.6	025.5	51.67
082.0	000.1400	0034.1	006.5	208.8	000.7500	0077.6	025.6	51.56
083.0	000.1400	0033.9	006.5	208.6	000.7500	0077.6	025.7	51.49
084.0	000.1400	0033.5	006.4	208.6	000.7500	0077.6	025.8	51.42
085.0	000.1400	0033.0	006.4	208.5	000.7500	0077.6	026.0	51.34
086.0	000.1400	0032.7	006.4	208.4	000.7500	0077.6	026.1	51.27
087.0	000.1400	0032.6	006.4	208.3	000.7500	0077.7	026.2	51.21
088.0	000.1400	0032.9	006.4	208.1	000.7500	0077.7	026.2	51.16
089.0	000.1400	0033.2	006.4	208.0	000.7500	0077.8	026.3	51.11
090.0	000.1400	0034.1	006.5	207.7	000.7500	0077.9	026.4	51.07
091.0	000.1400	0034.4	006.5	207.5	000.7500	0077.8	026.5	51.01
092.0	000.1400	0034.5	006.5	207.4	000.7500	0077.7	026.6	50.93
093.0	000.1400	0034.3	006.5	207.3	000.7500	0077.6	026.7	50.84
094.0	000.1400	0034.2	006.5	207.3	000.7500	0077.4	026.8	50.76
095.0	000.1400	0034.2	006.5	207.2	000.7500	0077.3	026.9	50.67
096.0	000.1400	0034.3	006.5	207.1	000.7500	0077.2	027.0	50.60
097.0	000.1400	0034.6	006.5	206.9	000.7500	0077.2	027.1	50.53
098.0	000.1400	0034.5	006.5	206.9	000.7500	0077.3	027.2	50.47
099.0	000.1400	0034.5	006.5	206.8	000.7500	0077.4	027.3	50.41

Figure 2-2
Proposed Bedford, MI

FMCommander Single Allocation Study
10-03-2007

NEW	CH 209 A	NEWc	CH 209 A	BNPED19990928AAV
0.75 kW	352.3 M COR DA	0.4 kW,	300 M COR	
Prot. =	60 dBu	Prot. =	60 dBu	
Intef. =	40 dBu	Intef. =	40 dBu	

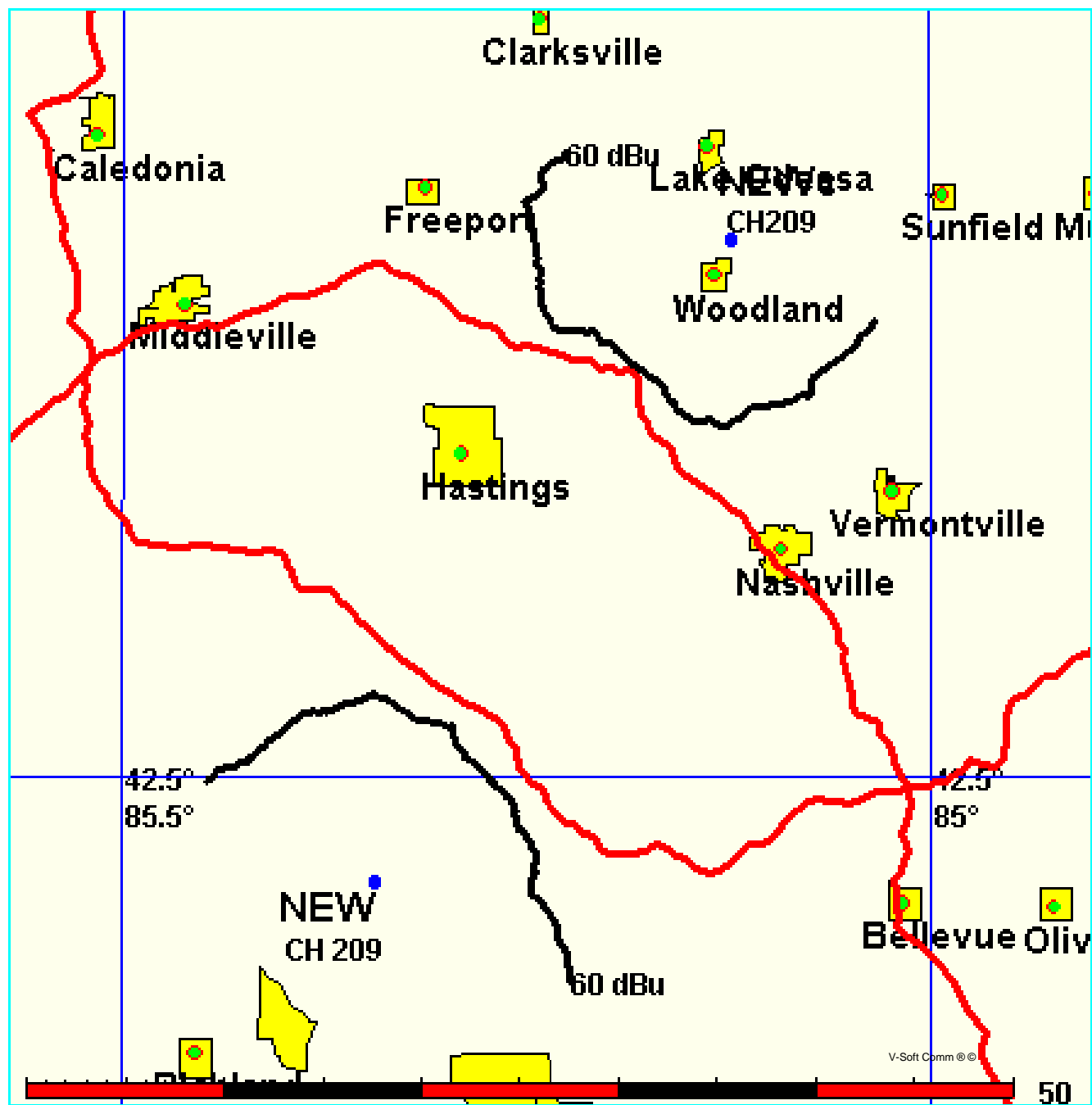


Figure 2-2

01-07-2008

NED 03 SEC Terrain Data

FMOver Analysis

NEW
Channel = 209A
Max ERP = 0.75 kW
RCAMSL = 352.3 M
N. Lat. 42 27 12.9
W. Lng. 85 20 39.0
Protected
60 dBu

NEW BNPED19990928AAV
Channel = 209A
Max ERP = 0.4 kW
RCAMSL = 300 M
N. Lat. 42 44 35.0
W. Lng. 85 07 25.0
Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
329.0	000.1200	0066.3	008.8	222.6	000.4000	0024.7	033.4	36.84
330.0	000.1200	0067.3	008.9	222.7	000.4000	0024.8	033.3	36.90
331.0	000.1200	0068.1	008.9	222.7	000.4000	0024.8	033.1	36.96
332.0	000.1200	0069.3	009.0	222.7	000.4000	0024.8	032.9	37.03
333.0	000.1200	0068.8	009.0	222.6	000.4000	0024.7	032.8	37.08
334.0	000.1200	0068.3	009.0	222.4	000.4000	0024.6	032.6	37.13
335.0	000.1200	0068.8	009.0	222.3	000.4000	0024.5	032.5	37.20
336.0	000.1200	0069.7	009.1	222.3	000.4000	0024.5	032.3	37.26
337.0	000.1200	0069.9	009.1	222.2	000.4000	0024.3	032.2	37.32
338.0	000.1200	0069.5	009.0	222.1	000.4000	0024.0	032.0	37.37
339.0	000.1200	0069.2	009.0	221.9	000.4000	0023.7	031.9	37.42
340.0	000.1200	0068.8	009.0	221.7	000.4000	0023.5	031.8	37.47
341.0	000.1200	0066.7	008.9	221.4	000.4000	0022.8	031.7	37.50
342.0	000.1200	0066.0	008.8	221.2	000.4000	0022.7	031.6	37.55
343.0	000.1200	0066.5	008.8	221.1	000.4000	0022.6	031.5	37.61
344.0	000.1200	0064.9	008.7	220.8	000.4000	0022.7	031.4	37.64
345.0	000.1200	0065.1	008.8	220.6	000.4000	0022.7	031.2	37.70
346.0	000.1200	0065.9	008.8	220.6	000.4000	0022.7	031.1	37.77
347.0	000.1200	0066.2	008.8	220.4	000.4000	0022.7	031.0	37.83
348.0	000.1200	0066.6	008.8	220.3	000.4000	0022.6	030.8	37.89
349.0	000.1200	0066.8	008.9	220.1	000.4000	0022.6	030.7	37.95
350.0	000.1200	0067.2	008.9	220.0	000.4000	0022.6	030.5	38.01
351.0	000.1200	0068.1	008.9	219.9	000.4000	0022.7	030.4	38.08
352.0	000.1200	0068.3	009.0	219.7	000.4000	0022.7	030.3	38.14
353.0	000.1200	0067.9	008.9	219.5	000.4000	0022.6	030.2	38.19
354.0	000.1200	0068.3	009.0	219.3	000.4000	0022.6	030.0	38.25
355.0	000.1200	0069.2	009.0	219.1	000.4000	0022.8	029.9	38.32
356.0	000.1200	0069.6	009.0	219.0	000.4000	0023.0	029.8	38.39
357.0	000.1200	0070.8	009.1	218.8	000.4000	0023.0	029.6	38.47
358.0	000.1200	0071.9	009.2	218.7	000.4000	0022.9	029.4	38.55
359.0	000.1200	0073.0	009.3	218.5	000.4000	0022.9	029.3	38.63
000.0	000.1200	0074.3	009.3	218.4	000.4000	0022.8	029.1	38.71
001.0	000.1174	0074.6	009.3	218.1	000.4000	0022.7	029.0	38.75
002.0	000.1148	0073.7	009.2	217.7	000.4000	0022.9	029.0	38.76
003.0	000.1122	0073.8	009.1	217.4	000.4000	0023.2	029.0	38.78
004.0	000.1097	0073.8	009.1	217.1	000.4000	0023.4	028.9	38.81
005.0	000.1072	0073.3	009.0	216.7	000.4000	0023.7	028.9	38.81
006.0	000.1047	0073.4	009.0	216.4	000.4000	0024.0	028.9	38.83
007.0	000.1022	0072.7	008.9	216.0	000.4000	0024.1	028.9	38.83
008.0	000.0998	0071.3	008.7	215.6	000.4000	0024.4	029.0	38.80
009.0	000.0974	0070.6	008.6	215.3	000.4000	0024.8	029.0	38.79
010.0	000.0951	0071.3	008.6	215.0	000.4000	0025.4	028.9	38.82
011.0	000.0937	0071.3	008.6	214.7	000.4000	0025.8	028.9	38.84
012.0	000.0923	0071.8	008.6	214.4	000.4000	0025.6	028.8	38.86
013.0	000.0909	0071.7	008.5	214.1	000.4000	0025.3	028.8	38.87
014.0	000.0896	0070.0	008.4	213.7	000.4000	0024.9	028.9	38.83
015.0	000.0882	0070.0	008.3	213.4	000.4000	0024.5	028.9	38.84
016.0	000.0869	0071.3	008.4	213.2	000.4000	0024.3	028.8	38.89

Figure 2-2

017.0	000.0856	0072.0	008.4	212.9	000.4000	0023.9	028.7	38.91
018.0	000.0843	0073.1	008.4	212.7	000.4000	0023.2	028.7	38.95
019.0	000.0830	0073.8	008.4	212.4	000.4000	0022.4	028.6	38.97
020.0	000.0817	0074.2	008.4	212.1	000.4000	0021.8	028.6	38.98
021.0	000.0817	0074.0	008.4	211.8	000.4000	0021.0	028.6	38.99
022.0	000.0817	0074.7	008.5	211.5	000.4000	0020.4	028.5	39.03
023.0	000.0817	0076.0	008.5	211.2	000.4000	0019.8	028.4	39.09
024.0	000.0817	0074.3	008.4	210.9	000.4000	0019.6	028.5	39.04
025.0	000.0817	0076.5	008.6	210.6	000.4000	0019.6	028.4	39.12
026.0	000.0817	0076.3	008.6	210.3	000.4000	0019.8	028.4	39.12
027.0	000.0817	0078.1	008.7	210.1	000.4000	0020.0	028.2	39.19
028.0	000.0817	0076.3	008.6	209.7	000.4000	0020.3	028.3	39.13
029.0	000.0817	0072.7	008.3	209.4	000.4000	0020.6	028.6	39.01
030.0	000.0817	0069.1	008.1	209.2	000.4000	0020.4	028.8	38.89
031.0	000.0830	0067.9	008.1	208.9	000.4000	0020.2	028.8	38.87
032.0	000.0843	0064.7	007.9	208.6	000.4000	0020.2	029.0	38.78
033.0	000.0856	0064.2	007.9	208.3	000.4000	0020.7	029.0	38.78
034.0	000.0869	0064.0	007.9	208.1	000.4000	0021.4	029.0	38.78
035.0	000.0882	0063.0	007.9	207.8	000.4000	0022.0	029.0	38.76
036.0	000.0896	0060.3	007.8	207.6	000.4000	0022.3	029.2	38.68
037.0	000.0909	0058.7	007.7	207.3	000.4000	0022.8	029.3	38.63
038.0	000.0923	0058.2	007.7	207.1	000.4000	0023.2	029.3	38.61
039.0	000.0937	0057.9	007.7	206.8	000.4000	0024.0	029.3	38.61
040.0	000.0951	0058.1	007.8	206.5	000.4000	0024.9	029.3	38.61
041.0	000.0951	0058.5	007.8	206.3	000.4000	0025.8	029.3	38.61
042.0	000.0951	0058.7	007.8	206.0	000.4000	0026.7	029.3	38.60
043.0	000.0951	0058.6	007.8	205.8	000.4000	0027.5	029.4	38.57
044.0	000.0951	0058.3	007.8	205.5	000.4000	0028.3	029.5	38.54
045.0	000.0951	0059.1	007.8	205.2	000.4000	0029.5	029.4	38.55
046.0	000.0951	0059.6	007.8	205.0	000.4000	0030.5	029.5	38.66
047.0	000.0951	0058.7	007.8	204.8	000.4000	0031.0	029.6	38.71
048.0	000.0951	0058.6	007.8	204.5	000.4000	0031.3	029.6	38.75
049.0	000.0951	0057.4	007.7	204.3	000.4000	0031.4	029.8	38.71
050.0	000.0951	0057.1	007.7	204.1	000.4000	0031.6	029.8	38.72
051.0	000.0951	0058.4	007.8	203.8	000.4000	0032.0	029.8	38.81
052.0	000.0951	0058.1	007.7	203.6	000.4000	0032.0	029.9	38.79
053.0	000.0951	0058.1	007.7	203.4	000.4000	0032.1	030.0	38.78
054.0	000.0951	0059.3	007.8	203.1	000.4000	0032.5	030.0	38.88
055.0	000.0951	0060.3	007.9	202.8	000.4000	0033.1	030.0	38.99
056.0	000.0951	0061.0	007.9	202.5	000.4000	0033.7	030.0	39.10
057.0	000.0951	0061.2	008.0	202.3	000.4000	0034.0	030.1	39.14
058.0	000.0951	0061.3	008.0	202.1	000.4000	0034.2	030.2	39.16
059.0	000.0951	0061.9	008.0	201.8	000.4000	0034.6	030.2	39.21
060.0	000.0951	0062.2	008.0	201.6	000.4000	0034.8	030.3	39.23
061.0	000.0951	0062.2	008.0	201.4	000.4000	0035.0	030.4	39.23
062.0	000.0951	0062.0	008.0	201.2	000.4000	0035.1	030.5	39.21
063.0	000.0951	0061.0	007.9	201.1	000.4000	0035.2	030.6	39.16
064.0	000.0951	0061.5	008.0	200.9	000.4000	0035.4	030.7	39.16
065.0	000.0951	0059.9	007.9	200.8	000.4000	0035.4	030.8	39.09
066.0	000.0951	0059.4	007.8	200.7	000.4000	0035.5	031.0	39.05
067.0	000.0951	0059.2	007.8	200.5	000.4000	0035.6	031.1	39.03
068.0	000.0951	0059.1	007.8	200.3	000.4000	0035.8	031.2	39.02
069.0	000.0951	0058.5	007.8	200.2	000.4000	0035.8	031.3	38.98
070.0	000.0951	0057.9	007.7	200.1	000.4000	0035.8	031.4	38.92
071.0	000.0951	0058.1	007.7	200.0	000.4000	0035.7	031.5	38.85
072.0	000.0951	0060.3	007.9	199.6	000.4000	0035.7	031.5	38.84
073.0	000.0951	0063.1	008.1	199.2	000.4000	0035.9	031.5	38.88
074.0	000.0951	0062.1	008.0	199.1	000.4000	0035.9	031.7	38.81
075.0	000.0951	0063.7	008.1	198.8	000.4000	0035.9	031.8	38.80
076.0	000.0951	0064.4	008.2	198.6	000.4000	0036.2	031.9	38.82
077.0	000.0951	0064.2	008.1	198.5	000.4000	0036.4	032.0	38.81
078.0	000.0951	0064.5	008.2	198.3	000.4000	0036.7	032.1	38.82
079.0	000.0951	0065.3	008.2	198.1	000.4000	0037.0	032.2	38.86
080.0	000.0951	0066.4	008.3	197.9	000.4000	0037.4	032.3	38.89

				Figure 2-2				
081.0	000.0930	0067.2	008.3	197.8	000.4000	0037.5	032.4	38.86
082.0	000.0910	0068.2	008.3	197.6	000.4000	0037.6	032.5	38.84
083.0	000.0891	0067.6	008.2	197.7	000.4000	0037.6	032.7	38.76
084.0	000.0871	0067.8	008.2	197.6	000.4000	0037.6	032.9	38.71
085.0	000.0852	0067.2	008.1	197.7	000.4000	0037.5	033.0	38.64
086.0	000.0833	0068.6	008.1	197.5	000.4000	0037.7	033.1	38.62
087.0	000.0814	0069.9	008.2	197.4	000.4000	0037.8	033.3	38.59
088.0	000.0795	0069.6	008.1	197.4	000.4000	0037.7	033.4	38.52
089.0	000.0777	0069.3	008.0	197.5	000.4000	0037.7	033.6	38.46

01-07-2008 NED 03 SEC Terrain Data

NEW BNPED19990928AAV
Channel = 209A
Max ERP = 0.4 kW
RCAMSL = 300 M
N. Lat. 42 44 35.0
W. Lng. 85 07 25.0
Protected
60 dBu

NEW
Channel = 209A
Max ERP = 0.75 kW
RCAMSL = 352.3 M
N. Lat. 42 27 12.9
W. Lng. 85 20 39.0
Interfering
40 dBu

Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Actual (dBu)
149.0	000.4000	0031.6	008.2	041.5	000.0951	0058.5	033.6	35.84
150.0	000.4000	0032.7	008.3	041.6	000.0951	0058.6	033.4	35.92
151.0	000.4000	0034.9	008.6	042.0	000.0951	0058.6	033.2	36.03
152.0	000.4000	0036.6	008.8	042.2	000.0951	0058.8	033.0	36.15
153.0	000.4000	0037.1	008.9	042.2	000.0951	0058.8	032.8	36.22
154.0	000.4000	0036.1	008.8	041.9	000.0951	0058.6	032.7	36.24
155.0	000.4000	0035.1	008.6	041.6	000.0951	0058.6	032.6	36.27
156.0	000.4000	0035.7	008.7	041.6	000.0951	0058.6	032.5	36.34
157.0	000.4000	0036.0	008.8	041.6	000.0951	0058.6	032.3	36.41
158.0	000.4000	0036.2	008.8	041.5	000.0951	0058.5	032.2	36.47
159.0	000.4000	0035.9	008.7	041.3	000.0951	0058.5	032.0	36.52
160.0	000.4000	0035.9	008.7	041.2	000.0951	0058.5	031.9	36.58
161.0	000.4000	0035.6	008.7	041.0	000.0951	0058.5	031.8	36.63
162.0	000.4000	0035.6	008.7	040.9	000.0951	0058.5	031.7	36.69
163.0	000.4000	0035.4	008.7	040.7	000.0951	0058.4	031.6	36.73
164.0	000.4000	0035.0	008.6	040.5	000.0951	0058.4	031.5	36.77
165.0	000.4000	0034.8	008.6	040.3	000.0951	0058.3	031.3	36.82
166.0	000.4000	0035.0	008.6	040.2	000.0951	0058.3	031.2	36.88
167.0	000.4000	0035.2	008.7	040.0	000.0951	0058.2	031.1	36.93
168.0	000.4000	0035.4	008.7	039.9	000.0949	0058.0	030.9	36.97
169.0	000.4000	0034.8	008.6	039.6	000.0945	0057.9	030.9	36.97
170.0	000.4000	0034.7	008.6	039.4	000.0942	0057.9	030.8	37.01
171.0	000.4000	0034.1	008.5	039.1	000.0939	0057.9	030.7	37.02
172.0	000.4000	0034.2	008.5	039.0	000.0936	0058.0	030.6	37.08
173.0	000.4000	0034.8	008.6	038.9	000.0935	0058.0	030.4	37.16
174.0	000.4000	0035.9	008.7	038.9	000.0935	0058.0	030.2	37.27
175.0	000.4000	0036.9	008.9	038.8	000.0934	0058.0	030.0	37.37
176.0	000.4000	0038.0	009.0	038.8	000.0934	0058.0	029.8	37.48
177.0	000.4000	0038.6	009.1	038.7	000.0932	0058.1	029.6	37.57
178.0	000.4000	0038.7	009.1	038.4	000.0929	0058.2	029.5	37.63
179.0	000.4000	0039.5	009.2	038.3	000.0928	0058.2	029.3	37.73
180.0	000.4000	0040.8	009.4	038.3	000.0927	0058.2	029.1	37.85
181.0	000.4000	0041.7	009.5	038.2	000.0925	0058.2	028.9	37.95
182.0	000.4000	0042.0	009.5	037.9	000.0922	0058.2	028.8	38.01
183.0	000.4000	0041.3	009.4	037.6	000.0917	0058.4	028.8	38.03
184.0	000.4000	0040.3	009.3	037.2	000.0912	0058.6	028.8	38.03

Figure 2-2

185.0	000.4000	0040.2	009.3	036.9	000.0908	0058.8	028.7	38.09
186.0	000.4000	0039.4	009.2	036.5	000.0903	0059.3	028.7	38.13
187.0	000.4000	0039.2	009.2	036.2	000.0899	0059.8	028.7	38.20
188.0	000.4000	0040.0	009.3	036.0	000.0896	0060.2	028.5	38.36
189.0	000.4000	0040.6	009.3	035.8	000.0893	0060.8	028.4	38.50
190.0	000.4000	0040.7	009.3	035.5	000.0889	0061.5	028.3	38.62
191.0	000.4000	0040.9	009.4	035.3	000.0886	0062.2	028.2	38.75
192.0	000.4000	0040.8	009.4	034.9	000.0882	0063.2	028.1	38.89
193.0	000.4000	0039.6	009.2	034.5	000.0876	0064.2	028.2	38.93
194.0	000.4000	0039.5	009.2	034.2	000.0872	0064.2	028.2	38.95
195.0	000.4000	0038.7	009.1	033.8	000.0867	0063.8	028.2	38.84
196.0	000.4000	0038.9	009.1	033.5	000.0863	0063.6	028.1	38.84
197.0	000.4000	0038.0	009.0	033.2	000.0858	0063.9	028.2	38.82
198.0	000.4000	0037.3	008.9	032.8	000.0853	0064.4	028.2	38.84
199.0	000.4000	0035.9	008.7	032.4	000.0848	0064.8	028.3	38.78
200.0	000.4000	0035.8	008.7	032.1	000.0844	0064.7	028.3	38.75
201.0	000.4000	0035.3	008.7	031.8	000.0840	0065.1	028.4	38.77
202.0	000.4000	0034.3	008.5	031.5	000.0836	0066.0	028.5	38.81
203.0	000.4000	0032.7	008.3	031.1	000.0831	0067.4	028.6	38.85
204.0	000.4000	0031.8	008.2	030.8	000.0827	0068.7	028.7	38.94
205.0	000.4000	0030.4	008.0	030.5	000.0823	0069.0	028.9	38.85
206.0	000.4000	0026.7	008.0	030.2	000.0819	0068.8	028.9	38.79
207.0	000.4000	0023.4	008.0	029.9	000.0817	0069.4	028.9	38.85
208.0	000.4000	0021.5	008.0	029.6	000.0817	0070.2	028.9	38.96
209.0	000.4000	0020.3	008.0	029.3	000.0817	0071.1	028.9	39.06
210.0	000.4000	0020.0	008.0	029.1	000.0817	0072.4	028.9	39.22
211.0	000.4000	0019.6	008.0	028.8	000.0817	0073.5	028.9	39.34
212.0	000.4000	0021.6	008.0	028.5	000.0817	0074.8	028.9	39.50
213.0	000.4000	0024.1	008.0	028.2	000.0817	0075.7	028.9	39.60
214.0	000.4000	0025.3	008.0	028.0	000.0817	0076.4	028.9	39.67
215.0	000.4000	0025.4	008.0	027.7	000.0817	0077.0	029.0	39.73
216.0	000.4000	0024.1	008.0	027.4	000.0817	0077.8	029.0	39.81
217.0	000.4000	0023.4	008.0	027.2	000.0817	0078.3	029.0	39.87
218.0	000.4000	0022.7	008.0	026.9	000.0817	0077.8	029.0	39.78
219.0	000.4000	0022.9	008.0	026.6	000.0817	0077.1	029.1	39.70
220.0	000.4000	0022.6	008.0	026.3	000.0817	0076.3	029.1	39.58
221.0	000.4000	0022.6	008.0	026.1	000.0817	0076.2	029.1	39.55
222.0	000.4000	0023.9	008.0	025.8	000.0817	0076.5	029.2	39.56
223.0	000.4000	0025.3	008.0	025.6	000.0817	0076.5	029.2	39.54
224.0	000.4000	0026.2	008.0	025.3	000.0817	0076.5	029.2	39.51
225.0	000.4000	0026.3	008.0	025.0	000.0817	0076.5	029.3	39.49
226.0	000.4000	0027.1	008.0	024.8	000.0817	0076.3	029.3	39.44
227.0	000.4000	0028.8	008.0	024.5	000.0817	0075.4	029.4	39.30
228.0	000.4000	0029.8	008.0	024.3	000.0817	0074.4	029.4	39.16
229.0	000.4000	0029.9	008.0	024.0	000.0817	0074.3	029.5	39.12
230.0	000.4000	0031.6	008.2	023.6	000.0817	0075.0	029.4	39.27
231.0	000.4000	0033.0	008.4	023.2	000.0817	0076.0	029.3	39.43
232.0	000.4000	0032.8	008.4	023.0	000.0817	0076.0	029.4	39.38
233.0	000.4000	0032.6	008.3	022.8	000.0817	0075.8	029.5	39.31
234.0	000.4000	0032.5	008.3	022.5	000.0817	0075.5	029.5	39.22
235.0	000.4000	0031.8	008.2	022.4	000.0817	0075.1	029.7	39.10
236.0	000.4000	0032.8	008.4	022.0	000.0817	0074.7	029.7	39.07
237.0	000.4000	0035.0	008.6	021.5	000.0817	0074.1	029.5	39.07
238.0	000.4000	0036.5	008.8	021.0	000.0817	0073.9	029.5	39.08
239.0	000.4000	0038.1	009.0	020.5	000.0817	0074.7	029.4	39.22
240.0	000.4000	0039.6	009.2	020.1	000.0817	0074.2	029.4	39.18
241.0	000.4000	0042.4	009.6	019.4	000.0824	0074.0	029.2	39.28
242.0	000.4000	0044.0	009.7	018.9	000.0831	0073.8	029.2	39.30
243.0	000.4000	0045.7	009.9	018.4	000.0838	0073.5	029.1	39.32
244.0	000.4000	0046.2	010.0	018.1	000.0842	0073.3	029.2	39.27
245.0	000.4000	0046.2	010.0	017.8	000.0845	0072.8	029.4	39.16
246.0	000.4000	0046.5	010.0	017.6	000.0848	0072.4	029.5	39.06
247.0	000.4000	0047.0	010.1	017.3	000.0853	0071.9	029.6	38.98
248.0	000.4000	0046.7	010.1	017.1	000.0855	0071.9	029.7	38.90

Figure 2-2

249.0	000.4000	0047.4	010.1	016.8	000.0859	0072.1	029.8	38.90
250.0	000.4000	0047.4	010.1	016.6	000.0862	0072.1	029.9	38.84
251.0	000.4000	0047.3	010.1	016.4	000.0864	0072.0	030.1	38.75
252.0	000.4000	0046.8	010.1	016.3	000.0865	0071.8	030.3	38.65
253.0	000.4000	0046.9	010.1	016.1	000.0868	0071.4	030.4	38.54
254.0	000.4000	0046.2	010.0	016.0	000.0869	0071.4	030.6	38.43
255.0	000.4000	0046.2	010.0	015.8	000.0871	0071.1	030.7	38.33
256.0	000.4000	0046.3	010.0	015.7	000.0873	0070.8	030.9	38.24
257.0	000.4000	0045.4	009.9	015.7	000.0873	0070.8	031.1	38.14
258.0	000.4000	0045.3	009.9	015.6	000.0875	0070.6	031.3	38.04
259.0	000.4000	0044.3	009.8	015.6	000.0874	0070.7	031.5	37.95
260.0	000.4000	0044.1	009.7	015.5	000.0876	0070.5	031.6	37.86
261.0	000.4000	0044.2	009.8	015.4	000.0878	0070.3	031.8	37.76
262.0	000.4000	0045.3	009.9	015.0	000.0882	0070.0	031.9	37.70
263.0	000.4000	0046.0	010.0	014.8	000.0886	0070.1	032.0	37.68
264.0	000.4000	0044.9	009.8	014.9	000.0884	0070.0	032.2	37.57
265.0	000.4000	0044.9	009.9	014.7	000.0886	0070.1	032.4	37.52
266.0	000.4000	0044.8	009.8	014.7	000.0887	0070.2	032.5	37.45
267.0	000.4000	0044.7	009.8	014.6	000.0888	0070.3	032.7	37.39
268.0	000.4000	0045.1	009.9	014.4	000.0890	0070.3	032.9	37.33
269.0	000.4000	0045.6	009.9	014.2	000.0892	0070.1	033.0	37.26

Figure 2-3
Proposed Bedford, MI

FMCommander Single Allocation Study
10-03-2007

NEW	CH 209 A	WOCR	CH 209 A	BLED19890525KD
0.75 kW	352.3 M COR DA	0.125 kW,	303 M COR	
Prot. = 60 dBu		Prot. = 60 dBu		
Intef. = 40 dBu		Intef. = 40 dBu		

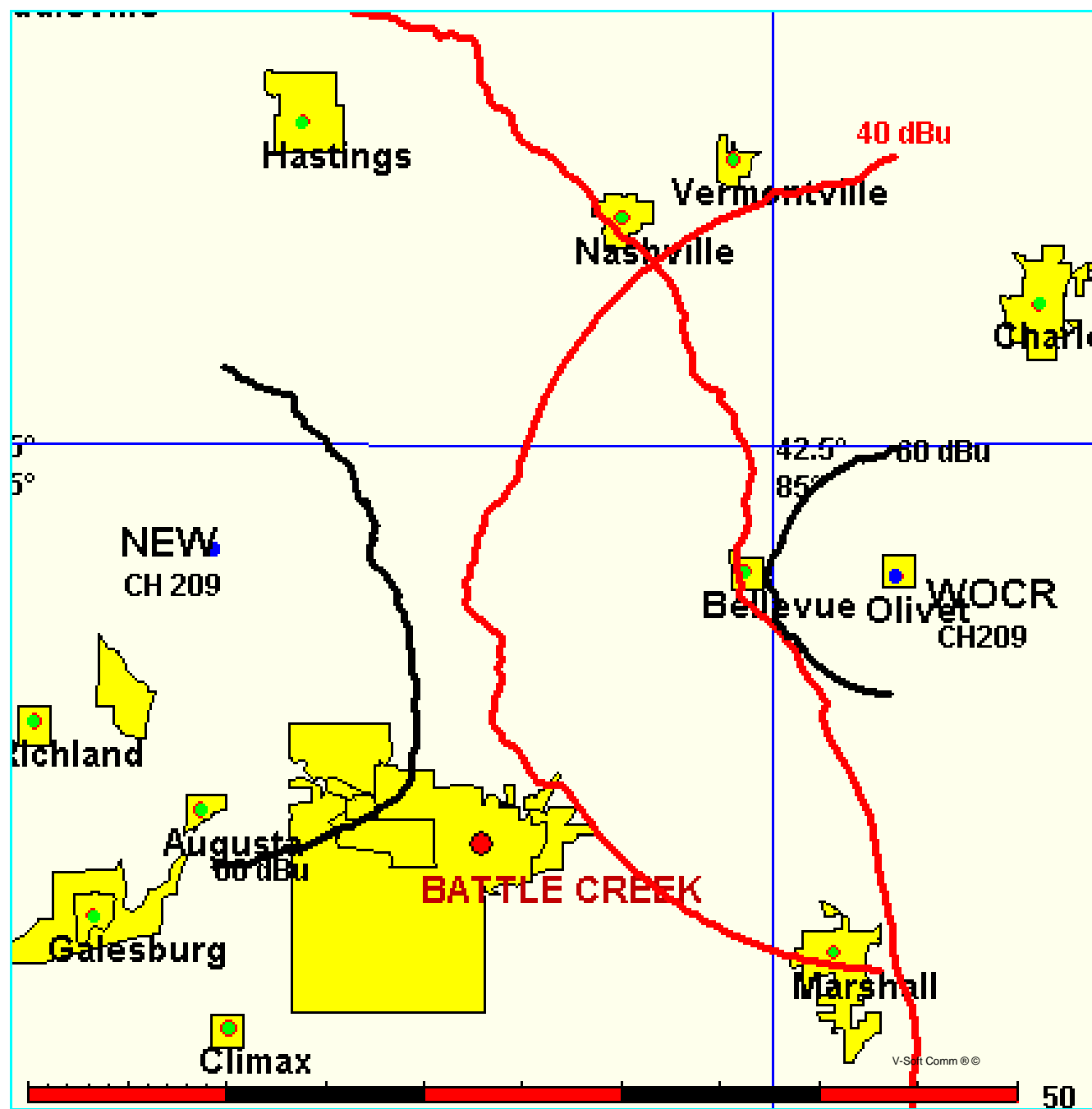


Figure 2-3

01-07-2008

NED 03 SEC Terrain Data

FMOver Analysis

NEW

Channel = 209A

Max ERP = 0.75 kW

RCAMSL = 352.3 M

N. Lat. 42 27 12.9

W. Lng. 85 20 39.0

Protected

60 dBu

WOCR

BLED19890525KD

Channel = 209A

Max ERP = 0.125 kW

RCAMSL = 303 M

N. Lat. 42 26 31.0

W. Lng. 84 55 30.0

Interfering

40 dBu

Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Actual (dBu)
032.0	000.0843	0064.7	007.9	285.0	000.1250	0027.2	031.3	32.61
033.0	000.0856	0064.2	007.9	284.9	000.1250	0027.3	031.2	32.67
034.0	000.0869	0064.0	007.9	284.9	000.1250	0027.4	031.0	32.73
035.0	000.0882	0063.0	007.9	284.7	000.1250	0027.7	030.9	32.79
036.0	000.0896	0060.3	007.8	284.4	000.1250	0028.3	030.8	32.82
037.0	000.0909	0058.7	007.7	284.2	000.1250	0028.7	030.7	32.87
038.0	000.0923	0058.2	007.7	284.1	000.1250	0028.9	030.6	32.92
039.0	000.0937	0057.9	007.7	284.0	000.1250	0029.0	030.5	32.98
040.0	000.0951	0058.1	007.8	284.0	000.1250	0029.1	030.4	33.05
041.0	000.0951	0058.5	007.8	283.9	000.1250	0029.2	030.2	33.11
042.0	000.0951	0058.7	007.8	283.8	000.1250	0029.4	030.1	33.17
043.0	000.0951	0058.6	007.8	283.6	000.1250	0029.5	030.0	33.22
044.0	000.0951	0058.3	007.8	283.5	000.1250	0029.8	029.9	33.28
045.0	000.0951	0059.1	007.8	283.4	000.1250	0029.9	029.7	33.35
046.0	000.0951	0059.6	007.8	283.3	000.1250	0030.0	029.6	33.41
047.0	000.0951	0058.7	007.8	283.1	000.1250	0030.3	029.5	33.52
048.0	000.0951	0058.6	007.8	282.9	000.1250	0030.5	029.4	33.62
049.0	000.0951	0057.4	007.7	282.6	000.1250	0030.7	029.4	33.70
050.0	000.0951	0057.1	007.7	282.5	000.1250	0030.8	029.3	33.78
051.0	000.0951	0058.4	007.8	282.4	000.1250	0030.9	029.1	33.87
052.0	000.0951	0058.1	007.7	282.2	000.1250	0031.0	029.0	33.94
053.0	000.0951	0058.1	007.7	282.0	000.1250	0031.0	028.9	34.01
054.0	000.0951	0059.3	007.8	282.0	000.1250	0031.0	028.7	34.10
055.0	000.0951	0060.3	007.9	281.9	000.1250	0031.1	028.6	34.18
056.0	000.0951	0061.0	007.9	281.8	000.1250	0031.0	028.5	34.25
057.0	000.0951	0061.2	008.0	281.6	000.1250	0031.1	028.4	34.32
058.0	000.0951	0061.3	008.0	281.4	000.1250	0031.2	028.3	34.40
059.0	000.0951	0061.9	008.0	281.2	000.1250	0031.2	028.1	34.47
060.0	000.0951	0062.2	008.0	281.0	000.1250	0031.3	028.0	34.55
061.0	000.0951	0062.2	008.0	280.8	000.1250	0031.5	027.9	34.65
062.0	000.0951	0062.0	008.0	280.6	000.1250	0031.6	027.9	34.73
063.0	000.0951	0061.0	007.9	280.3	000.1250	0032.0	027.8	34.83
064.0	000.0951	0061.5	008.0	280.1	000.1250	0032.1	027.7	34.92
065.0	000.0951	0059.9	007.9	279.7	000.1250	0032.4	027.7	34.99
066.0	000.0951	0059.4	007.8	279.5	000.1250	0032.7	027.7	35.08
067.0	000.0951	0059.2	007.8	279.2	000.1250	0033.1	027.6	35.21
068.0	000.0951	0059.1	007.8	279.0	000.1250	0033.4	027.6	35.33
069.0	000.0951	0058.5	007.8	278.7	000.1250	0033.7	027.5	35.41
070.0	000.0951	0057.9	007.7	278.4	000.1250	0033.8	027.5	35.45
071.0	000.0951	0058.1	007.7	278.1	000.1250	0033.8	027.4	35.50
072.0	000.0951	0060.3	007.9	278.0	000.1250	0033.8	027.2	35.62
073.0	000.0951	0063.1	008.1	277.9	000.1250	0033.8	027.0	35.76
074.0	000.0951	0062.1	008.0	277.6	000.1250	0033.8	027.0	35.75
075.0	000.0951	0063.7	008.1	277.4	000.1250	0033.8	026.9	35.84
076.0	000.0951	0064.4	008.2	277.1	000.1250	0033.8	026.8	35.89
077.0	000.0951	0064.2	008.1	276.8	000.1250	0033.9	026.7	35.95
078.0	000.0951	0064.5	008.2	276.6	000.1250	0034.0	026.7	36.02
079.0	000.0951	0065.3	008.2	276.3	000.1250	0034.0	026.6	36.07

Figure 2-3

080.0	000.0951	0066.4	008.3	276.1	000.1250	0034.0	026.5	36.14
081.0	000.0930	0067.2	008.3	275.8	000.1250	0034.1	026.4	36.18
082.0	000.0910	0068.2	008.3	275.5	000.1250	0034.2	026.4	36.23
083.0	000.0891	0067.6	008.2	275.1	000.1250	0034.4	026.4	36.25
084.0	000.0871	0067.8	008.2	274.8	000.1250	0034.5	026.4	36.27
085.0	000.0852	0067.2	008.1	274.4	000.1250	0034.6	026.5	36.24
086.0	000.0833	0068.6	008.1	274.2	000.1250	0034.6	026.4	36.29
087.0	000.0814	0069.9	008.2	273.9	000.1250	0034.7	026.4	36.34
088.0	000.0795	0069.6	008.1	273.5	000.1250	0034.9	026.5	36.34
089.0	000.0777	0069.3	008.0	273.2	000.1250	0034.9	026.5	36.31
090.0	000.0758	0068.6	007.9	272.9	000.1250	0035.0	026.6	36.28
091.0	000.0758	0069.0	007.9	272.6	000.1250	0035.1	026.6	36.32
092.0	000.0758	0069.1	008.0	272.3	000.1250	0035.0	026.6	36.31
093.0	000.0758	0069.5	008.0	272.0	000.1250	0034.9	026.5	36.28
094.0	000.0758	0070.3	008.0	271.7	000.1250	0035.0	026.5	36.34
095.0	000.0758	0069.9	008.0	271.4	000.1250	0035.2	026.5	36.38
096.0	000.0837	0069.5	008.2	271.1	000.1250	0035.4	026.3	36.53
097.0	000.0919	0070.2	008.5	270.7	000.1250	0035.4	026.1	36.70
098.0	000.1010	0070.6	008.7	270.3	000.1250	0035.6	025.9	36.88
099.0	000.1100	0069.9	008.9	269.9	000.1250	0035.7	025.7	36.98
100.0	000.1200	0070.0	009.1	269.5	000.1250	0036.0	025.6	37.18
101.0	000.1263	0069.3	009.1	269.1	000.1250	0036.3	025.5	37.28
102.0	000.1327	0069.8	009.3	268.7	000.1250	0036.2	025.4	37.32
103.0	000.1393	0070.7	009.5	268.2	000.1250	0036.1	025.3	37.40
104.0	000.1460	0071.5	009.6	267.7	000.1250	0036.1	025.2	37.48
105.0	000.1529	0069.4	009.6	267.4	000.1250	0036.2	025.2	37.44
106.0	000.1599	0068.4	009.7	267.0	000.1250	0036.3	025.2	37.45
107.0	000.1672	0068.6	009.8	266.5	000.1250	0036.3	025.2	37.48
108.0	000.1745	0069.7	010.0	266.0	000.1250	0036.5	025.1	37.62
109.0	000.1821	0070.6	010.1	265.5	000.1250	0036.1	025.0	37.57
110.0	000.1898	0071.4	010.3	265.0	000.1250	0035.2	024.9	37.42
111.0	000.1996	0072.0	010.4	264.4	000.1250	0034.2	024.9	37.24
112.0	000.2097	0072.4	010.6	263.9	000.1250	0034.2	024.8	37.26
113.0	000.2201	0072.2	010.7	263.4	000.1250	0033.6	024.8	37.14
114.0	000.2307	0071.7	010.8	262.9	000.1250	0033.1	024.8	37.00
115.0	000.2415	0071.7	010.9	262.4	000.1250	0032.5	024.8	36.86
116.0	000.2526	0071.8	011.0	261.9	000.1250	0032.1	024.8	36.75
117.0	000.2640	0071.9	011.2	261.3	000.1250	0031.6	024.8	36.64
118.0	000.2756	0072.2	011.3	260.8	000.1250	0031.2	024.8	36.54
119.0	000.2875	0072.7	011.5	260.2	000.1250	0031.4	024.8	36.57
120.0	000.2996	0072.6	011.6	259.7	000.1250	0031.7	024.9	36.61
121.0	000.3152	0072.5	011.7	259.1	000.1250	0032.1	024.9	36.69
122.0	000.3313	0074.0	011.9	258.4	000.1250	0031.7	024.9	36.63
123.0	000.3477	0075.7	012.2	257.6	000.1250	0032.4	024.8	36.81
124.0	000.3646	0076.4	012.4	257.0	000.1250	0033.1	024.9	36.95
125.0	000.3818	0076.7	012.5	256.4	000.1250	0032.5	024.9	36.78
126.0	000.3995	0076.4	012.7	255.8	000.1250	0032.2	025.0	36.64
127.0	000.4175	0075.6	012.7	255.4	000.1250	0032.6	025.2	36.67
128.0	000.4359	0076.0	012.9	254.8	000.1250	0032.6	025.2	36.60
129.0	000.4548	0077.9	013.2	254.0	000.1250	0033.4	025.3	36.78
130.0	000.4740	0078.6	013.4	253.3	000.1250	0034.2	025.3	36.90
131.0	000.4988	0079.0	013.6	252.6	000.1250	0034.6	025.4	36.93
132.0	000.5242	0079.5	013.8	252.0	000.1250	0034.8	025.5	36.92
133.0	000.5502	0080.0	014.0	251.3	000.1250	0035.4	025.6	36.99
134.0	000.5768	0080.7	014.2	250.6	000.1250	0036.1	025.8	37.06
135.0	000.6041	0080.8	014.4	250.0	000.1250	0036.2	025.9	37.00
136.0	000.6320	0079.5	014.4	249.7	000.1250	0036.1	026.1	36.83
137.0	000.6606	0079.6	014.6	249.1	000.1250	0035.9	026.3	36.68
138.0	000.6898	0080.9	014.9	248.3	000.1250	0035.6	026.4	36.52
139.0	000.7196	0082.4	015.2	247.5	000.1250	0035.9	026.6	36.51
140.0	000.7500	0082.8	015.4	246.9	000.1250	0035.5	026.8	36.30
141.0	000.7500	0082.0	015.3	246.9	000.1250	0035.5	027.0	36.12
142.0	000.7500	0083.2	015.4	246.5	000.1250	0034.8	027.3	35.81
143.0	000.7500	0083.8	015.5	246.3	000.1250	0034.6	027.5	35.61

Figure 2-3

144.0	000.7500	0083.8	015.5	246.1	000.1250	0034.4	027.8	35.43
145.0	000.7500	0083.6	015.5	246.1	000.1250	0034.4	028.1	35.26
146.0	000.7500	0083.9	015.5	245.9	000.1250	0034.1	028.3	35.05
147.0	000.7500	0083.9	015.5	245.8	000.1250	0034.0	028.6	34.87
148.0	000.7500	0083.8	015.5	245.8	000.1250	0033.9	028.8	34.71
149.0	000.7500	0083.8	015.5	245.7	000.1250	0033.8	029.1	34.55
150.0	000.7500	0083.6	015.5	245.7	000.1250	0033.8	029.4	34.41
151.0	000.7500	0084.2	015.5	245.5	000.1250	0033.7	029.7	34.25
152.0	000.7500	0084.3	015.6	245.5	000.1250	0033.8	029.9	34.11

01-07-2008 NED 03 SEC Terrain Data

WOCR BLED19890525KD
Channel = 209A
Max ERP = 0.125 kW
RCAMSL = 303 M
N. Lat. 42 26 31.0
W. Lng. 84 55 30.0
Protected
60 dBu

NEW
Channel = 209A
Max ERP = 0.75 kW
RCAMSL = 352.3 M
N. Lat. 42 27 12.9
W. Lng. 85 20 39.0
Interfering
40 dBu

Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Actual (dBu)
212.0	000.1250	0022.1	006.0	101.4	000.1285	0069.6	032.0	39.25
213.0	000.1250	0022.3	006.0	101.3	000.1281	0069.5	031.9	39.27
214.0	000.1250	0021.2	006.0	101.2	000.1276	0069.5	031.8	39.30
215.0	000.1250	0021.2	006.0	101.1	000.1272	0069.4	031.7	39.32
216.0	000.1250	0020.7	006.0	101.1	000.1267	0069.4	031.6	39.34
217.0	000.1250	0020.8	006.0	101.0	000.1262	0069.3	031.5	39.36
218.0	000.1250	0020.6	006.0	100.9	000.1256	0069.2	031.4	39.38
219.0	000.1250	0021.0	006.0	100.8	000.1251	0069.2	031.3	39.40
220.0	000.1250	0021.3	006.0	100.7	000.1245	0069.3	031.2	39.43
221.0	000.1250	0021.2	006.0	100.6	000.1239	0069.3	031.1	39.46
222.0	000.1250	0021.7	006.0	100.5	000.1233	0069.5	031.0	39.50
223.0	000.1250	0021.3	006.0	100.4	000.1227	0069.6	031.0	39.54
224.0	000.1250	0021.2	006.0	100.3	000.1220	0069.8	030.9	39.58
225.0	000.1250	0022.6	006.0	100.2	000.1213	0069.9	030.8	39.61
226.0	000.1250	0024.0	006.0	100.1	000.1206	0069.9	030.7	39.64
227.0	000.1250	0024.5	006.0	100.0	000.1199	0070.0	030.6	39.66
228.0	000.1250	0025.4	006.0	099.9	000.1187	0070.1	030.5	39.67
229.0	000.1250	0025.8	006.0	099.7	000.1174	0070.1	030.4	39.67
230.0	000.1250	0026.0	006.0	099.6	000.1162	0070.1	030.4	39.66
231.0	000.1250	0025.4	006.0	099.5	000.1149	0070.1	030.3	39.66
232.0	000.1250	0025.0	006.0	099.4	000.1136	0070.1	030.2	39.65
233.0	000.1250	0025.2	006.0	099.2	000.1122	0070.0	030.1	39.62
234.0	000.1250	0025.6	006.0	099.1	000.1109	0069.9	030.1	39.60
235.0	000.1250	0025.9	006.0	098.9	000.1095	0069.9	030.0	39.58
236.0	000.1250	0025.3	006.0	098.8	000.1082	0069.9	029.9	39.58
237.0	000.1250	0026.5	006.0	098.7	000.1069	0070.0	029.8	39.57
238.0	000.1250	0029.2	006.0	098.5	000.1055	0070.2	029.8	39.57
239.0	000.1250	0032.0	006.1	098.6	000.1061	0070.1	029.6	39.70
240.0	000.1250	0033.4	006.3	098.6	000.1060	0070.1	029.4	39.79
241.0	000.1250	0033.6	006.3	098.4	000.1046	0070.2	029.3	39.79
242.0	000.1250	0033.8	006.3	098.2	000.1032	0070.4	029.3	39.79
243.0	000.1250	0033.7	006.3	098.1	000.1016	0070.5	029.2	39.78
244.0	000.1250	0033.7	006.3	097.9	000.1000	0070.7	029.1	39.76
245.0	000.1250	0033.7	006.3	097.7	000.0984	0070.7	029.1	39.73
246.0	000.1250	0034.3	006.3	097.6	000.0971	0070.7	029.0	39.73
247.0	000.1250	0035.7	006.4	097.5	000.0965	0070.7	028.8	39.79

				Figure 2-3				
248.0	000.1250	0035.6	006.4	097.3	000.0946	0070.6	028.8	39.73
249.0	000.1250	0035.8	006.5	097.1	000.0930	0070.4	028.7	39.67
250.0	000.1250	0036.2	006.5	097.0	000.0916	0070.2	028.6	39.63
251.0	000.1250	0035.7	006.4	096.7	000.0895	0070.0	028.6	39.51
252.0	000.1250	0034.8	006.4	096.5	000.0873	0069.6	028.6	39.35
253.0	000.1250	0034.4	006.3	096.2	000.0854	0069.5	028.6	39.24
254.0	000.1250	0033.3	006.2	095.9	000.0832	0069.6	028.6	39.12
255.0	000.1250	0032.5	006.2	095.7	000.0812	0069.6	028.7	38.99
256.0	000.1250	0032.2	006.1	095.5	000.0795	0069.7	028.7	38.92
257.0	000.1250	0033.1	006.2	095.3	000.0783	0069.7	028.6	38.92
258.0	000.1250	0031.7	006.1	095.0	000.0761	0069.9	028.6	38.77
259.0	000.1250	0032.1	006.1	094.8	000.0758	0070.0	028.6	38.81
260.0	000.1250	0031.5	006.1	094.6	000.0758	0070.1	028.6	38.81
261.0	000.1250	0031.3	006.1	094.4	000.0758	0070.2	028.6	38.82
262.0	000.1250	0032.2	006.1	094.2	000.0758	0070.3	028.5	38.89
263.0	000.1250	0033.2	006.2	094.0	000.0758	0070.3	028.4	38.96
264.0	000.1250	0034.2	006.3	093.9	000.0758	0070.2	028.3	39.01
265.0	000.1250	0035.3	006.4	093.7	000.0758	0070.0	028.2	39.06
266.0	000.1250	0036.5	006.5	093.5	000.0758	0069.9	028.0	39.11
267.0	000.1250	0036.3	006.5	093.2	000.0758	0069.7	028.0	39.08
268.0	000.1250	0036.1	006.5	093.0	000.0758	0069.5	028.1	39.06
269.0	000.1250	0036.3	006.5	092.8	000.0758	0069.2	028.0	39.04
270.0	000.1250	0035.7	006.4	092.5	000.0758	0069.1	028.1	39.00
271.0	000.1250	0035.4	006.4	092.3	000.0758	0069.1	028.1	38.99
272.0	000.1250	0034.9	006.4	092.1	000.0758	0069.1	028.1	38.96
273.0	000.1250	0035.0	006.4	091.8	000.0758	0069.2	028.1	38.98
274.0	000.1250	0034.7	006.4	091.6	000.0758	0069.3	028.2	38.97
275.0	000.1250	0034.5	006.3	091.4	000.0758	0069.2	028.2	38.95
276.0	000.1250	0034.0	006.3	091.2	000.0758	0069.1	028.2	38.90
277.0	000.1250	0033.8	006.3	091.0	000.0758	0069.0	028.2	38.87
278.0	000.1250	0033.8	006.3	090.7	000.0758	0068.8	028.3	38.85
279.0	000.1250	0033.4	006.2	090.5	000.0758	0068.6	028.3	38.79
280.0	000.1250	0032.2	006.1	090.3	000.0758	0068.5	028.4	38.71
281.0	000.1250	0031.3	006.1	090.2	000.0758	0068.5	028.5	38.65
282.0	000.1250	0031.0	006.0	090.0	000.0759	0068.6	028.6	38.64
283.0	000.1250	0030.4	006.0	089.8	000.0763	0068.8	028.6	38.63
284.0	000.1250	0029.0	006.0	089.6	000.0766	0068.9	028.7	38.64
285.0	000.1250	0027.2	006.0	089.4	000.0770	0069.0	028.7	38.66
286.0	000.1250	0026.4	006.0	089.2	000.0773	0069.2	028.8	38.69
287.0	000.1250	0026.2	006.0	089.0	000.0777	0069.3	028.8	38.70
288.0	000.1250	0025.8	006.0	088.8	000.0781	0069.4	028.8	38.71
289.0	000.1250	0025.6	006.0	088.6	000.0784	0069.4	028.9	38.71
290.0	000.1250	0026.1	006.0	088.4	000.0788	0069.5	028.9	38.72
291.0	000.1250	0025.7	006.0	088.2	000.0791	0069.6	028.9	38.72
292.0	000.1250	0026.1	006.0	088.0	000.0795	0069.6	029.0	38.73
293.0	000.1250	0025.6	006.0	087.8	000.0798	0069.7	029.0	38.74
294.0	000.1250	0024.8	006.0	087.6	000.0802	0069.8	029.1	38.74
295.0	000.1250	0024.3	006.0	087.5	000.0805	0069.9	029.1	38.74
296.0	000.1250	0024.2	006.0	087.3	000.0809	0070.0	029.2	38.74
297.0	000.1250	0023.9	006.0	087.1	000.0812	0070.0	029.2	38.73
298.0	000.1250	0023.4	006.0	086.9	000.0815	0069.9	029.3	38.70
299.0	000.1250	0022.4	006.0	086.7	000.0818	0069.7	029.3	38.68
300.0	000.1250	0021.5	006.0	086.6	000.0822	0069.5	029.4	38.64
301.0	000.1250	0020.9	006.0	086.4	000.0825	0069.3	029.4	38.60
302.0	000.1250	0020.4	006.0	086.2	000.0828	0069.0	029.5	38.54
303.0	000.1250	0020.0	006.0	086.1	000.0831	0068.7	029.5	38.48
304.0	000.1250	0020.1	006.0	085.9	000.0834	0068.4	029.6	38.43
305.0	000.1250	0019.5	006.0	085.8	000.0837	0068.2	029.7	38.38
306.0	000.1250	0019.3	006.0	085.6	000.0840	0068.0	029.7	38.33
307.0	000.1250	0019.0	006.0	085.5	000.0843	0067.7	029.8	38.28
308.0	000.1250	0019.0	006.0	085.3	000.0846	0067.5	029.9	38.23
309.0	000.1250	0018.6	006.0	085.2	000.0849	0067.3	029.9	38.18
310.0	000.1250	0018.7	006.0	085.0	000.0851	0067.2	030.0	38.14
311.0	000.1250	0018.4	006.0	084.9	000.0854	0067.1	030.1	38.11

				Figure 2-3				
312.0	000.1250	0018.5	006.0	084.7	000.0857	0067.2	030.2	38.09
313.0	000.1250	0018.7	006.0	084.6	000.0859	0067.3	030.2	38.08
314.0	000.1250	0018.7	006.0	084.5	000.0862	0067.5	030.3	38.07
315.0	000.1250	0019.0	006.0	084.3	000.0864	0067.6	030.4	38.05
316.0	000.1250	0018.9	006.0	084.2	000.0867	0067.7	030.5	38.04
317.0	000.1250	0019.2	006.0	084.1	000.0869	0067.7	030.6	38.01
318.0	000.1250	0019.3	006.0	084.0	000.0871	0067.8	030.6	37.99
319.0	000.1250	0019.0	006.0	083.9	000.0874	0067.8	030.7	37.96
320.0	000.1250	0018.8	006.0	083.8	000.0876	0067.9	030.8	37.93
321.0	000.1250	0019.0	006.0	083.7	000.0878	0067.9	030.9	37.91
322.0	000.1250	0019.3	006.0	083.6	000.0880	0067.9	031.0	37.87
323.0	000.1250	0019.0	006.0	083.5	000.0882	0068.0	031.1	37.84
324.0	000.1250	0019.6	006.0	083.4	000.0884	0068.0	031.2	37.81
325.0	000.1250	0020.4	006.0	083.3	000.0885	0068.0	031.3	37.77
326.0	000.1250	0021.1	006.0	083.2	000.0887	0067.9	031.4	37.72
327.0	000.1250	0021.6	006.0	083.1	000.0889	0067.8	031.4	37.67
328.0	000.1250	0022.5	006.0	083.0	000.0891	0067.6	031.5	37.62
329.0	000.1250	0023.6	006.0	082.9	000.0892	0067.5	031.6	37.57
330.0	000.1250	0024.0	006.0	082.8	000.0894	0067.4	031.7	37.52
331.0	000.1250	0024.5	006.0	082.8	000.0895	0067.4	031.8	37.48
332.0	000.1250	0025.7	006.0	082.7	000.0896	0067.4	031.9	37.44

Figure 2-4
Proposed Bedford, MI

FMCommander Single Allocation Study
10-03-2007

NEW	CH 209 A	WOCR	CH 209 A	BLED19890525KD
0.75 kW	352.3 M COR DA	0.125 kW,	303 M COR	
Prot. = 60 dBu		Prot. = 60 dBu		
Intef. = 40 dBu		Intef. = 40 dBu		

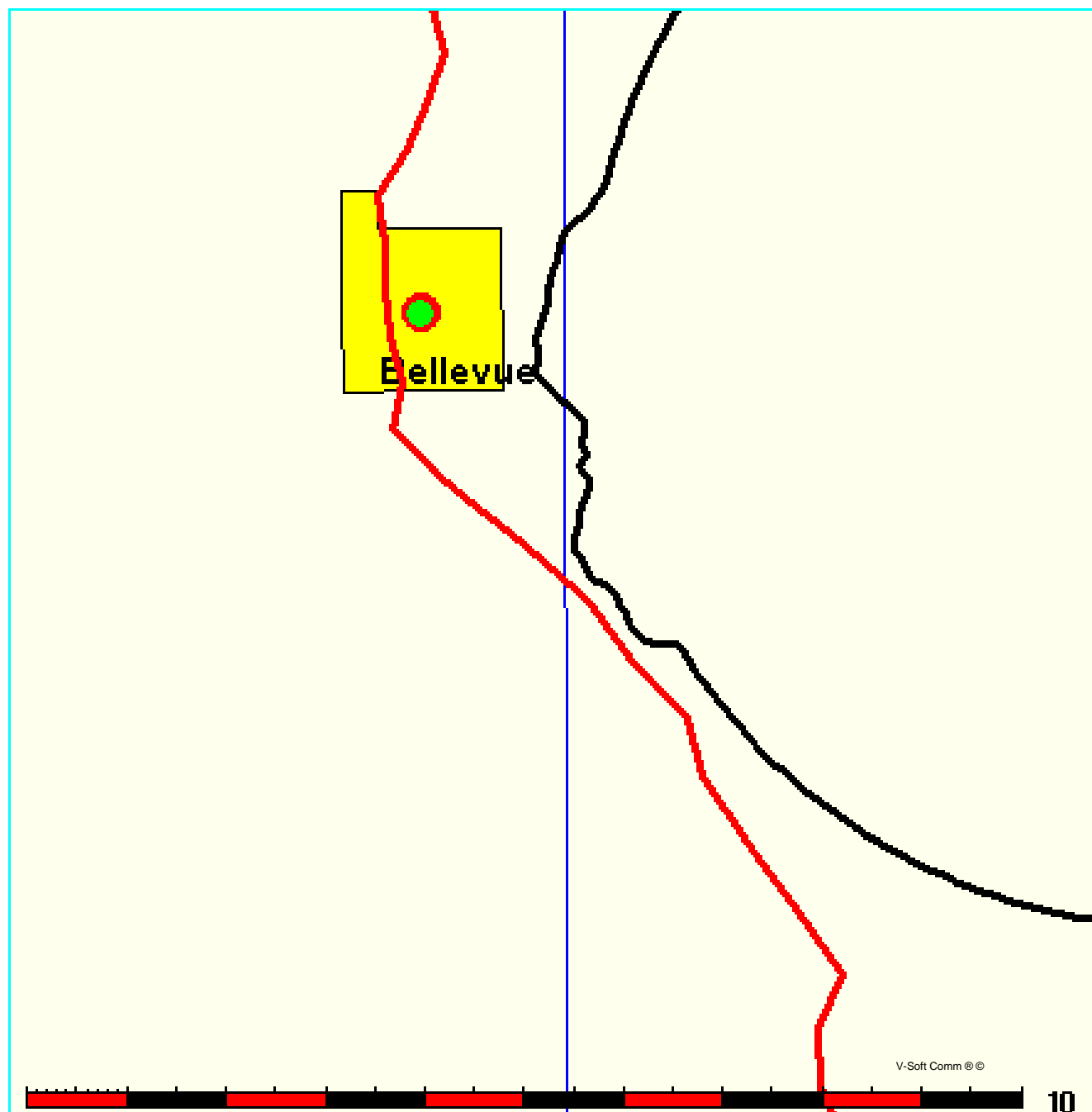


Figure 2-5
Proposed Bedford, MI

FMCommander Single Allocation Study
10-03-2007

NEW	CH 209 A	WAYG-A	CH 209 A	BPED20070807AEH
0.75 kW	352.3 M COR DA	6.0 kW,	299 M COR DA	
Prot. =	60 dBu	Prot. =	60 dBu	
Intef. =	40 dBu	Intef. =	40 dBu	

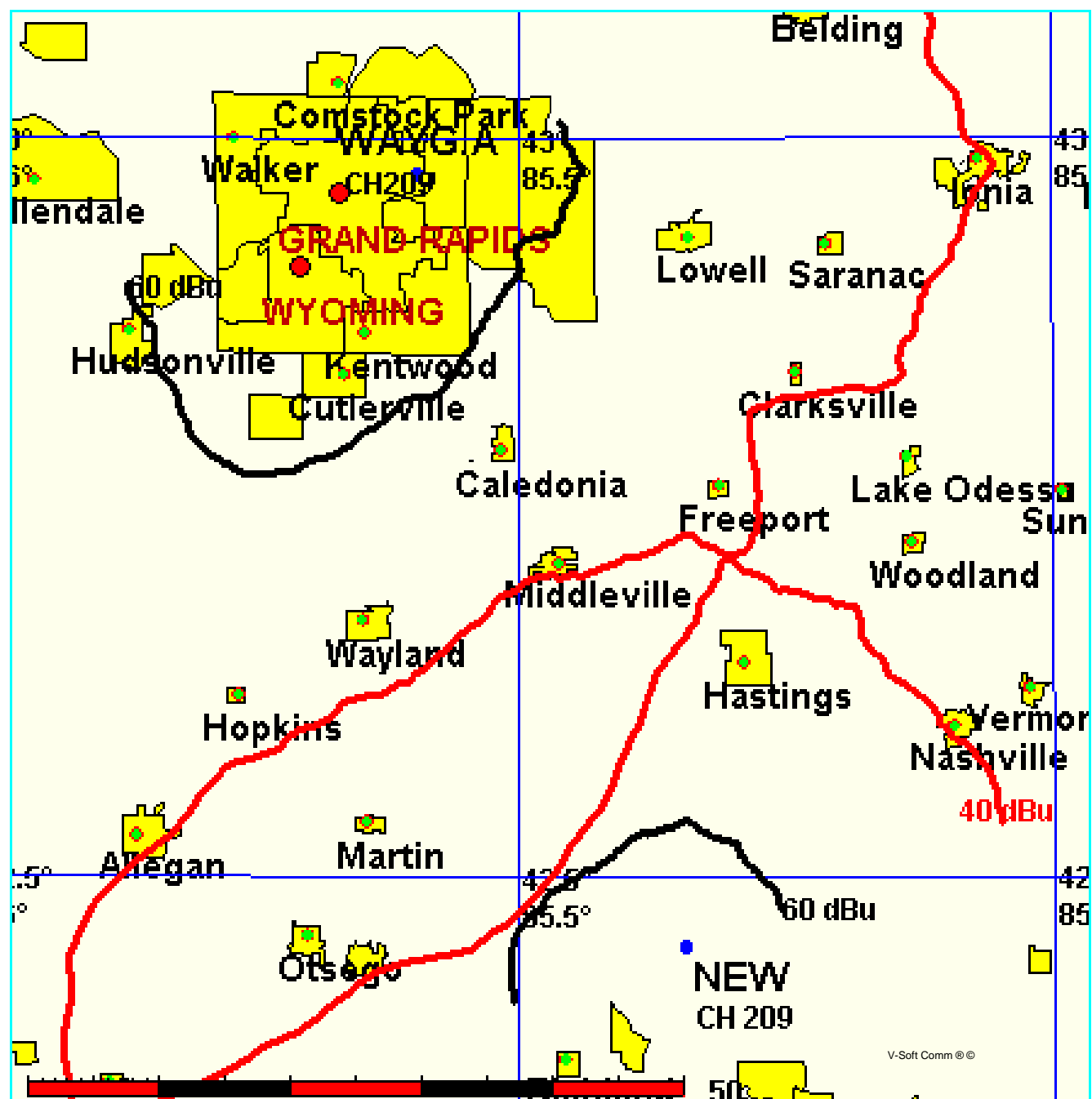


Figure 3

Channel -Six TV Protection Study

WLNSTV LI 06- 2C Dom Int 100.000 kW 305 M HAAT
 Lansing MI 577.0 M COR AMSL
 Lat= 42 41 19.0, Lng= 84 22 35.0
 Young Broadcasting Of Lansing BLCT20020103AAA
 Fac ID# 74420, Cutoff Date=53897628
 Dist.=83.64 km, Azi=71.4°, Rev Azi=252.1°

Direct line HAAT Grade B, 47 dBu= 104.19 km & Grade A= 54.86 km

Distance from reference to Grade B = -20.55 km

Cutoff Dist from Full Service or Class CA= 196

Maximum Co-located power= 17.8 kW

WLNSTV Signal Contour at Reference location = 55.4 dBu

CH. 209, U/D ratio = 10.9 dB, Maximum FM signal = 66.3 dBu , add 6 dB if within angle.

TV/FM D to U values

47.0	67.3	55.0	66.3	63.0	67.9	71.0	72.7	79.0	79.0	87.0	85.6
48.0	67.0	56.0	66.4	64.0	68.4	72.0	73.5	80.0	79.8	88.0	86.4
49.0	66.6	57.0	66.5	65.0	68.8	73.0	74.2	81.0	80.6	89.0	87.3
50.0	66.3	58.0	66.6	66.0	69.4	74.0	75.0	82.0	81.4	90.0	88.2
51.0	66.2	59.0	66.8	67.0	70.0	75.0	75.8	83.0	82.2	91.0	88.2
52.0	66.2	60.0	67.0	68.0	70.6	76.0	76.6	84.0	83.0	92.0	88.2
53.0	66.1	61.0	67.3	69.0	71.3	77.0	77.4	85.0	83.9	93.0	88.2
54.0	66.2	62.0	67.5	70.0	72.0	78.0	78.2	86.0	84.7	94.0	88.2

Figure 3-1

10-03-2007 NED 03 SEC Terrain Data

WLNSTV BLCT20020103AAA

Channel = 06-2C

Max ERP = 100 kW

RCAMSL = 577 M

N. Lat. 42 41 19.0

W. Lng. 84 22 35.0

Protected

47 dBu

NEW

Channel = 209A

Max ERP = 0.01875 kW

RCAMSL = 352.3 M

N. Lat. 42 27 12.9

W. Lng. 85 20 39.0

Interfering

66.34032 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
192.0	100.0000	0302.5	103.8	142.1	000.0188	0083.4	095.3	11.96
193.0	100.0000	0303.0	103.8	142.8	000.0188	0083.6	094.0	12.27
194.0	100.0000	0303.8	103.9	143.6	000.0188	0084.0	092.7	12.63
195.0	100.0000	0304.0	103.9	144.3	000.0188	0083.8	091.3	12.97
196.0	100.0000	0304.4	103.9	145.0	000.0188	0083.6	089.9	13.31
197.0	100.0000	0305.0	104.0	145.8	000.0188	0083.9	088.5	13.69
198.0	100.0000	0305.5	104.0	146.6	000.0188	0083.8	087.1	14.05
199.0	100.0000	0305.8	104.0	147.3	000.0188	0084.0	085.7	14.44
200.0	100.0000	0305.3	104.0	148.1	000.0188	0083.9	084.3	14.82
201.0	100.0000	0304.7	104.0	148.8	000.0188	0083.9	082.8	15.22
202.0	100.0000	0304.5	103.9	149.6	000.0188	0083.6	081.4	15.59
203.0	100.0000	0304.8	104.0	150.4	000.0188	0084.0	080.0	16.00
204.0	100.0000	0305.3	104.0	151.2	000.0188	0084.2	078.5	16.39
205.0	100.0000	0305.6	104.0	152.1	000.0188	0084.3	077.1	16.79
206.0	100.0000	0306.2	104.1	152.9	000.0188	0084.6	075.7	17.19
207.0	100.0000	0306.1	104.1	153.8	000.0188	0084.2	074.2	17.57
208.0	100.0000	0305.8	104.0	154.6	000.0188	0082.5	072.8	17.88
209.0	100.0000	0305.8	104.0	155.5	000.0188	0082.1	071.3	18.26
210.0	100.0000	0305.6	104.0	156.4	000.0188	0082.3	069.8	18.68
211.0	100.0000	0305.3	104.0	157.2	000.0188	0082.1	068.3	19.08
212.0	100.0000	0305.0	104.0	158.1	000.0188	0083.0	066.9	19.56
213.0	100.0000	0304.6	103.9	159.1	000.0188	0083.5	065.4	20.02
214.0	100.0000	0304.5	103.9	160.0	000.0188	0083.7	063.9	20.46
215.0	100.0000	0304.5	103.9	161.0	000.0188	0084.3	062.4	20.95
216.0	100.0000	0305.0	104.0	162.0	000.0188	0084.4	061.0	21.41
217.0	100.0000	0305.3	104.0	163.0	000.0188	0084.7	059.5	21.92
218.0	100.0000	0305.2	104.0	164.1	000.0188	0084.6	058.1	22.41
219.0	100.0000	0304.3	103.9	165.1	000.0188	0082.7	056.6	22.80
220.0	100.0000	0303.8	103.9	166.2	000.0188	0082.9	055.1	23.34
221.0	100.0000	0303.7	103.9	167.3	000.0188	0083.6	053.6	23.92
222.0	100.0000	0303.8	103.9	168.5	000.0188	0084.8	052.1	24.55
223.0	100.0000	0303.6	103.9	169.7	000.0188	0083.9	050.7	25.00
224.0	100.0000	0303.5	103.8	170.9	000.0188	0084.9	049.2	25.61
225.0	100.0000	0303.5	103.8	172.2	000.0188	0086.1	047.8	26.23
226.0	100.0000	0303.5	103.9	173.6	000.0188	0086.4	046.3	26.78
227.0	100.0000	0303.6	103.9	175.0	000.0188	0087.4	044.9	27.41
228.0	100.0000	0303.4	103.8	176.4	000.0188	0087.1	043.5	27.93
229.0	100.0000	0303.4	103.8	178.0	000.0188	0086.7	042.0	28.44
230.0	100.0000	0303.4	103.8	179.6	000.0188	0087.3	040.6	29.07
231.0	100.0000	0304.0	103.9	181.3	000.0188	0088.5	039.3	29.75
232.0	100.0000	0304.0	103.9	183.1	000.0188	0091.1	037.9	30.58
233.0	100.0000	0303.4	103.8	184.9	000.0188	0091.9	036.5	31.27
234.0	100.0000	0303.7	103.9	186.9	000.0188	0091.4	035.2	31.80
235.0	100.0000	0303.7	103.9	188.9	000.0188	0090.4	033.9	32.31
236.0	100.0000	0303.9	103.9	191.2	000.0188	0084.9	032.6	32.34
237.0	100.0000	0303.9	103.9	193.5	000.0188	0083.5	031.3	32.78
238.0	100.0000	0304.2	103.9	196.0	000.0188	0079.6	030.1	32.98
239.0	100.0000	0304.6	103.9	198.7	000.0188	0079.4	029.0	33.62
240.0	100.0000	0304.7	103.9	201.6	000.0188	0078.1	027.8	34.16
241.0	100.0000	0305.3	104.0	204.7	000.0188	0076.3	026.8	34.62
242.0	100.0000	0305.7	104.0	208.0	000.0188	0077.8	025.8	35.47
243.0	100.0000	0306.3	104.1	211.5	000.0188	0076.8	024.8	36.01
244.0	100.0000	0306.2	104.1	215.2	000.0188	0075.6	023.9	36.53
245.0	100.0000	0306.2	104.1	219.2	000.0188	0072.6	023.1	36.79
246.0	100.0000	0306.6	104.1	223.4	000.0188	0072.3	022.4	37.29
247.0	100.0000	0307.0	104.1	227.9	000.0188	0071.6	021.8	37.68
248.0	100.0000	0307.0	104.1	232.5	000.0188	0072.0	021.2	38.16
249.0	100.0000	0307.1	104.1	237.4	000.0188	0070.7	020.8	38.33
250.0	100.0000	0307.3	104.2	242.4	000.0188	0071.9	020.5	38.69
251.0	100.0000	0307.5	104.2	247.5	000.0188	0070.3	020.4	38.63
252.0	100.0000	0307.7	104.2	252.6	000.0188	0066.6	020.4	38.20
253.0	100.0000	0308.2	104.2	257.7	000.0188	0064.5	020.5	37.83

Figure 3-1

254.0	100.0000	0308.9	104.3	262.8	000.0188	0062.5	020.8	37.36
255.0	100.0000	0309.9	104.4	267.6	000.0188	0060.2	021.2	36.73
256.0	100.0000	0310.5	104.4	272.3	000.0170	0061.0	021.7	36.00
257.0	100.0000	0309.9	104.4	276.9	000.0138	0061.2	022.2	34.70
258.0	100.0000	0309.6	104.3	281.2	000.0113	0060.6	022.9	33.22
259.0	100.0000	0309.8	104.4	285.3	000.0094	0061.4	023.7	31.97
260.0	100.0000	0310.0	104.4	289.1	000.0078	0065.0	024.5	30.99
261.0	100.0000	0309.9	104.4	292.8	000.0067	0064.9	025.5	29.62
262.0	100.0000	0310.0	104.4	296.1	000.0057	0063.2	026.5	28.07
263.0	100.0000	0310.7	104.4	299.2	000.0049	0065.7	027.6	27.03
264.0	100.0000	0311.0	104.5	302.2	000.0043	0065.4	028.7	25.74
265.0	100.0000	0311.6	104.5	304.9	000.0038	0069.6	029.9	25.06
266.0	100.0000	0311.7	104.5	307.5	000.0034	0069.4	031.1	23.88
267.0	100.0000	0312.1	104.5	309.9	000.0030	0068.4	032.3	22.65
268.0	100.0000	0312.2	104.5	312.2	000.0030	0067.2	033.6	21.92
269.0	100.0000	0312.1	104.5	314.3	000.0030	0066.4	034.9	21.28
270.0	100.0000	0312.2	104.5	316.4	000.0030	0064.9	036.2	20.54
271.0	100.0000	0312.7	104.6	318.3	000.0030	0064.8	037.6	19.97
272.0	100.0000	0313.1	104.6	320.1	000.0030	0064.4	038.9	19.37
273.0	100.0000	0313.5	104.6	321.8	000.0030	0065.5	040.3	18.96
274.0	100.0000	0313.7	104.7	323.4	000.0030	0065.0	041.7	18.37
275.0	100.0000	0313.7	104.7	325.0	000.0030	0065.3	043.1	17.89
276.0	100.0000	0313.6	104.7	326.5	000.0030	0064.8	044.5	17.34
277.0	100.0000	0313.6	104.7	328.0	000.0030	0065.6	045.9	16.93
278.0	100.0000	0313.8	104.7	329.4	000.0030	0066.9	047.4	16.58
279.0	100.0000	0314.2	104.7	330.7	000.0030	0068.0	048.8	16.22
280.0	100.0000	0314.3	104.7	332.0	000.0030	0069.3	050.3	15.86
281.0	100.0000	0314.4	104.7	333.2	000.0030	0068.9	051.7	15.34
282.0	100.0000	0316.3	104.9	334.3	000.0030	0068.2	053.2	14.76
283.0	100.0000	0317.3	104.9	335.4	000.0030	0069.6	054.7	14.38
284.0	100.0000	0318.0	105.0	336.5	000.0030	0069.6	056.2	13.89
285.0	100.0000	0317.6	105.0	337.7	000.0030	0069.9	057.7	13.45
286.0	100.0000	0316.8	104.9	338.8	000.0030	0069.4	059.1	12.95
287.0	100.0000	0316.7	104.9	339.9	000.0030	0068.9	060.5	12.46
288.0	100.0000	0316.8	104.9	340.9	000.0030	0067.1	062.0	11.89
289.0	100.0000	0316.9	104.9	341.9	000.0030	0065.8	063.5	11.37
290.0	100.0000	0317.3	104.9	342.8	000.0030	0066.3	064.9	11.01
291.0	100.0000	0317.6	105.0	343.8	000.0030	0065.0	066.4	10.52
292.0	100.0000	0317.9	105.0	344.7	000.0030	0064.5	067.9	10.10
293.0	100.0000	0318.0	105.0	345.6	000.0030	0065.9	069.3	09.81
294.0	100.0000	0318.2	105.0	346.5	000.0030	0065.8	070.8	09.42
295.0	100.0000	0318.6	105.0	347.3	000.0030	0066.4	072.3	09.08
296.0	100.0000	0318.4	105.0	348.2	000.0030	0066.6	073.7	08.71
297.0	100.0000	0318.4	105.0	349.1	000.0030	0066.8	075.2	08.35
298.0	100.0000	0317.0	104.9	350.0	000.0030	0067.2	076.6	08.02
299.0	100.0000	0316.0	104.8	350.8	000.0030	0067.9	077.9	07.69
300.0	100.0000	0316.2	104.9	351.7	000.0030	0068.3	079.4	07.35
301.0	100.0000	0316.2	104.9	352.5	000.0030	0068.3	080.8	06.98
302.0	100.0000	0315.6	104.8	353.3	000.0030	0067.7	082.2	06.59
303.0	100.0000	0315.5	104.8	354.1	000.0030	0068.4	083.6	06.26
304.0	100.0000	0315.5	104.8	354.8	000.0030	0068.7	085.1	05.91
305.0	100.0000	0315.4	104.8	355.6	000.0030	0069.8	086.5	05.60
306.0	100.0000	0315.1	104.8	356.4	000.0030	0070.1	087.9	05.25
307.0	100.0000	0315.0	104.8	357.1	000.0030	0070.9	089.3	04.94
308.0	100.0000	0315.2	104.8	357.8	000.0030	0071.6	090.7	04.61
309.0	100.0000	0315.8	104.8	358.5	000.0030	0072.7	092.1	04.31
310.0	100.0000	0316.3	104.9	359.2	000.0030	0073.4	093.5	04.00
311.0	100.0000	0316.4	104.9	360.0	000.0030	0074.3	094.9	03.71
312.0	100.0000	0316.5	104.9	000.7	000.0030	0074.2	096.3	03.32

Figure 3-2

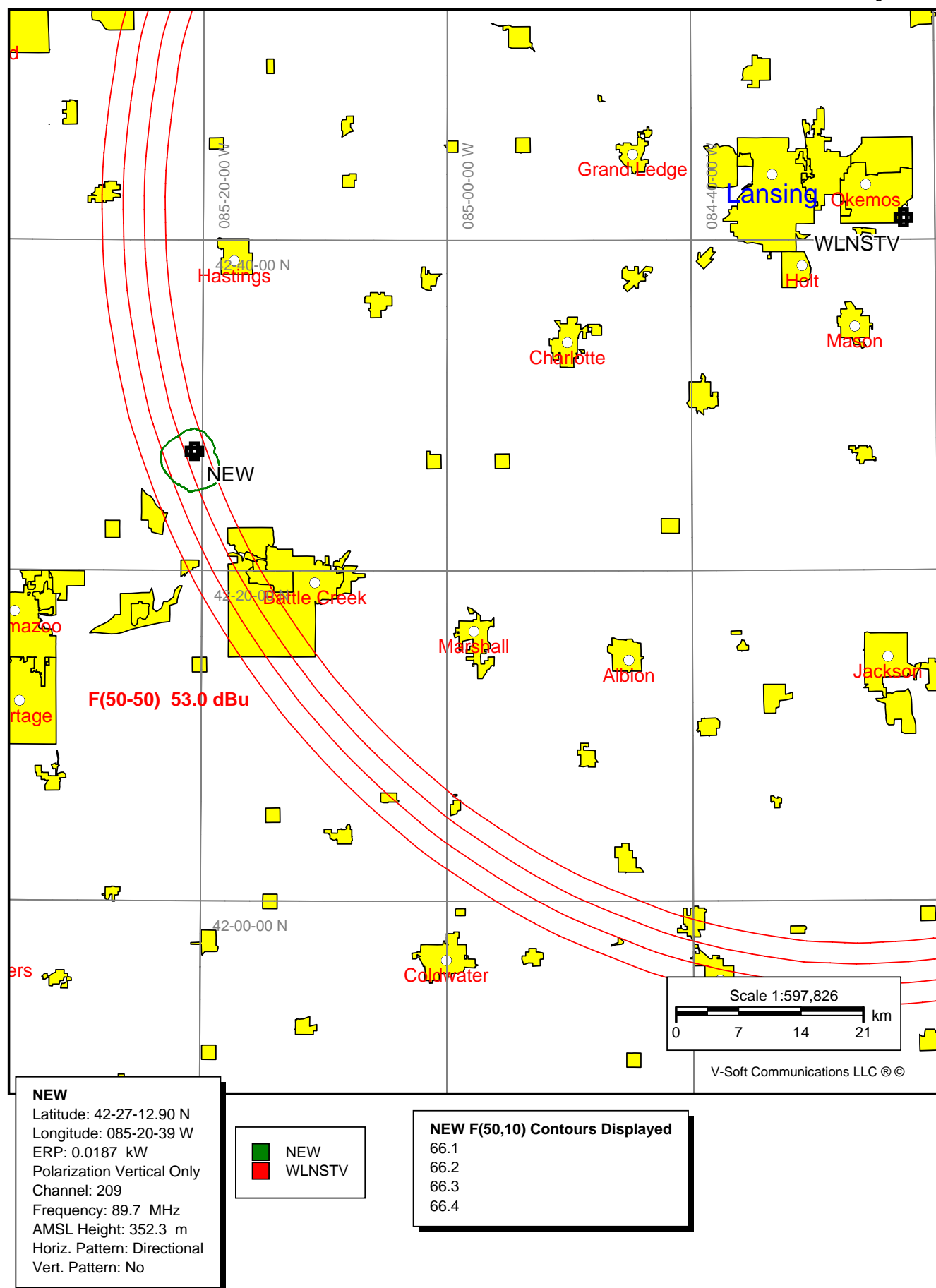


Figure 3-3

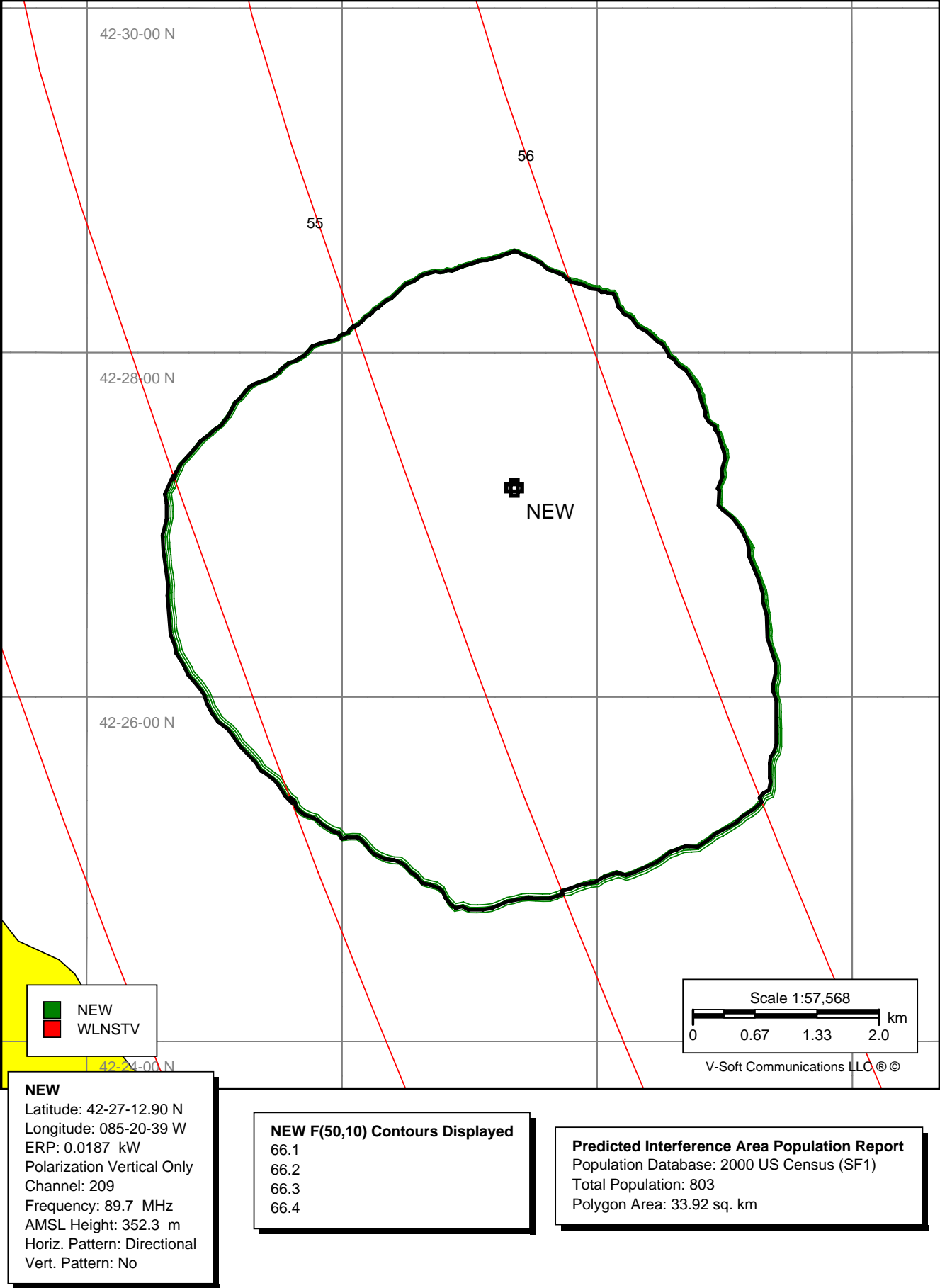


Figure 4

RMS(V) = .721

Bearing Field % Vol tageGraph i s Percent Relative Field Vol tage

000	=	0.400
010	=	0.356
020	=	0.330
030	=	0.330
040	=	0.356
050	=	0.356
060	=	0.356
070	=	0.356
080	=	0.356
090	=	0.318
100	=	0.400
110	=	0.503
120	=	0.632
130	=	0.795
140	=	1.000
150	=	1.000
160	=	1.000
170	=	1.000
180	=	1.000
190	=	1.000
200	=	1.000
210	=	1.000
220	=	1.000
230	=	1.000
240	=	1.000
250	=	1.000
260	=	1.000
270	=	1.000
280	=	0.795
290	=	0.632
300	=	0.503
310	=	0.400
320	=	0.400
330	=	0.400
340	=	0.400
350	=	0.400
90	=	0.318

