

Technical Exhibit
Minor Amendment to Application for Construction Permit
Murphysboro, IL
Channel 206A
.77 kW Circular Polarization 50.5m HAAT
59.7 m AGL

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Predicted Coverage Contours

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 30 meter 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 were calculated from the 2000 US Census according to the centroid method.

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. Required spacing to IF channels is shown in Figure 1.

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 $15.41241 \mu\text{W}/\text{cm}^2$ or 1.5% of the controlled standard. The actual downward radiation is expected to be less with construction of the Proposed utilizing a multi-bay antenna. The additional RF added by the Proposed is insignificant and will allow the site to remain within the controlled standard.

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# 206A - 89.1 MHz, Pwr= 0.77 kW, HAAT= 50.5 M, COR= 173.7 M	DISPLAY DATES
37 48 34.9 N.	Average Protected F(50-50)= 12.26 km	DATA 08-12-08
89 12 23.8 W.	Omni-directional	SEARCH 08-14-08

CH CITY	CALL	TYPE	ANT STATE	AZI ---	DI ST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap	*OUT* in km)
06+2C Paducah	WPSD-T	LI	_HY KY	163.8 343.9	71.39 BMLCT20040227ABE	37 11 31.0 88 58 53.0	100.000 482	10.4 596	119.3 Wpsd-tv,	211.0R Lic	-58.3M
206A Murphysboro	1213736	APP	DVX IL	230.3 50.2	18.89 BNPED20071018AVK	37 42 04.0 89 22 17.9	0.900 116	63.9 257	20.6 Covenant	-56.78* Network	-43.24*
207C2 Paducah	WGCF	LI	_C_ KY	163.6 343.7	71.48 BLED19970127KC	37 11 31.0 88 58 41.0	12.000 150	58.7 255	39.3 American	0.12 Family	13.48 Associatio
206B Mount Carmel	WVJC	LI	_CX IL	60.6 241.5	145.15 BMLED20040609ABE	38 26 29.0 87 45 26.0	50.000 101	129.7 229	43.8 Illinois	2.52 Eastern	55.40 Community
205A Mt. Vernon	WVSI	LI	_EX IL	20.9 201.0	64.68 BLED20011221AAR	38 21 13.0 88 56 32.0	4.000 103	43.0 255	28.1 Board Of	8.85 Trustees Of	17.65 South
206C3 Uni on	1212266	APP	DCX KY	20.6 200.9	117.13 BNPED20071019AQY	38 47 46.0 88 43 52.0	6.000 105	83.4 320	28.8 East West	20.90 Crosscul ture	42.97 Edu
260B Harri sburg	WOOZ-FM	LI	_CN IL	126.2 306.4	37.06 BLH19820908BF	37 36 45.0 88 52 03.0	32.000 189	88.0 349	29.3 Mrr	15.0R License	22.1M Lic
207B Festus	KTBJ	LI	DCX MO	298.1 117.6	82.25 BLED20020723AAA	38 09 16.0 90 02 07.0	25.000 113	46.0 258	30.0 Calvary	23.58 Chapel Of	33.53 Twin Fal
206C3 Dexter	NEW	CP	DVX MO	201.8 21.5	135.53 BNPED20071018AWH	36 40 30.8 89 46 18.7	6.500 100	100.3 186	38.4 Covenant	23.59 Network	55.94
209B1 Mount Vernon	WBMV	LI	_VX IL	21.7 201.8	67.09 BLED20050719AHR	38 22 15.0 88 55 20.0	10.500 150	4.0 303	39.8 Illinois	50.37 Bible	25.71 Institute,
206B Ki ncaid	1214064	APP	DEX IL	358.1 178.1	161.97 BNPED20071018AQY	39 16 05.0 89 16 07.0	50.000 128	119.9 328	43.6 Savi ng	29.05 Child ren ,	72.18 Inc.
203C1 Cai ro	WBEL	LI	_VX IL	168.0 348.1	92.76 BLED20040901ABA	36 59 32.0 88 59 19.0	64.000 170	6.7 283	56.5 Ameri can	73.89 Fami ly	34.69 Associatio
205C2 Farmi ngton	KSEF	CP	DVX MO	269.8 88.9	119.25 BPED20070223AAP	37 47 51.0 90 33 38.0	20.000 205	71.9 495	48.7 Board Of	35.03 Regents,	52.45 Southeas
206C2 Panama	1215770	APP	DCX IL	358.1 178.1	161.97 BNPED20071022BMM	39 16 05.0 89 16 07.0	31.000 132	107.6 332	39.4 Nassuna	41.32 Broadcasti ng,	76.37 Inc.
206B1 Nokomi s	1224307	APP	DCX IL	358.1 178.1	161.98 BNPED20071022BDO	39 16 05.3 89 16 07.9	10.000 126	97.8 324	34.7 Donnel l son	51.17 Sda	81.08 Church
206C2 St. Charles	KCLC	LI	DC_ MO	314.2 133.4	156.66 BLED20000720AAH	38 47 05.0 90 30 05.0	35.000 69	89.0 214	22.9 Li ndenwood	55.39 College	90.15
206C3 Hi llsboro	1227434	APP	_CX IL	357.7 177.6	164.43 BNPED20071019AFJ	39 17 23.0 89 17 04.0	7.600 103	90.1 303	29.6 Network Of	61.32 Glory, Inc.	88.68
205C2 Farmi ngton	KSEF	LI	DCX MO	269.8 88.9	119.25 BLED20060515ADQ	37 47 51.0 90 33 38.0	9.500 205	37.2 495	24.8 Board Of	69.70 Regents,	76.36 Southeas

Terrain database is NED 30 Meter Distance + R = 73.215 or FCC Spacings in KM, Distance + M = Margin in KM
Contour distances are on direct line to and from reference station. Reference zone = 1. With 3rd Adj Channels.
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.
"<" = Contour Overlap

Figure 2
Proposed Murphysboro, IL

FMCommander Single Allocation Study
08-16-2008

Proposed CH 206 A
0.77 kW 173.7 M COR
Prot. = 60 dBu
Intef. = 54 dBu

WGCF CH 207 C2 BLED19970127KC
12.0 kW, 255 M COR
Prot. = 60 dBu
Intef. = 54 dBu

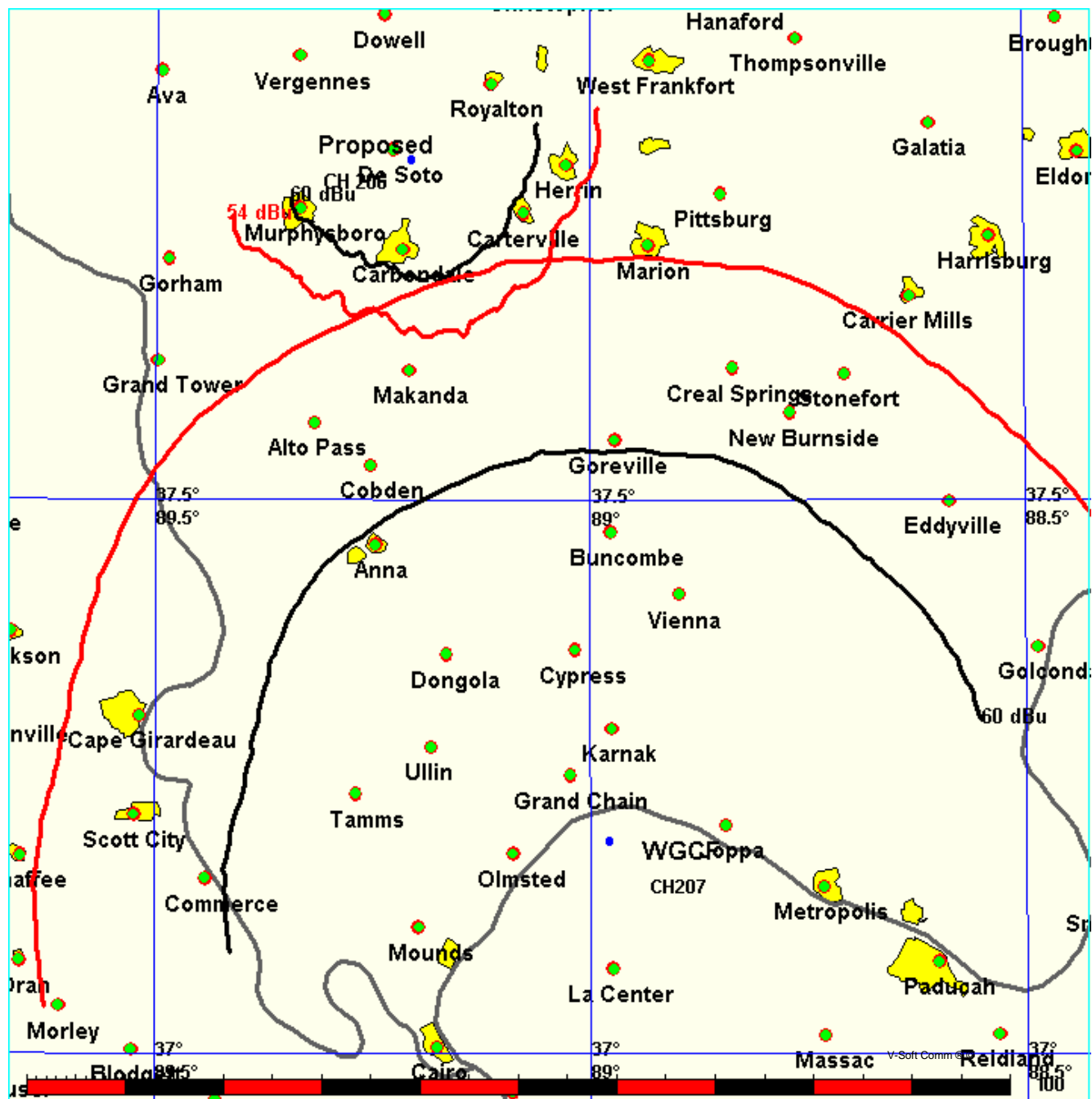


Figure 2-1
Proposed Murphysboro, IL

FMCommander Single Allocation Study
08-16-2008

Proposed CH 206 A
0.77 kW 173.7 M COR
Prot. = 60 dBu
Intef. = 54 dBu

WGCF CH 207 C2 BLED19970127KC
12.0 kW, 255 M COR
Prot. = 60 dBu
Intef. = 54 dBu

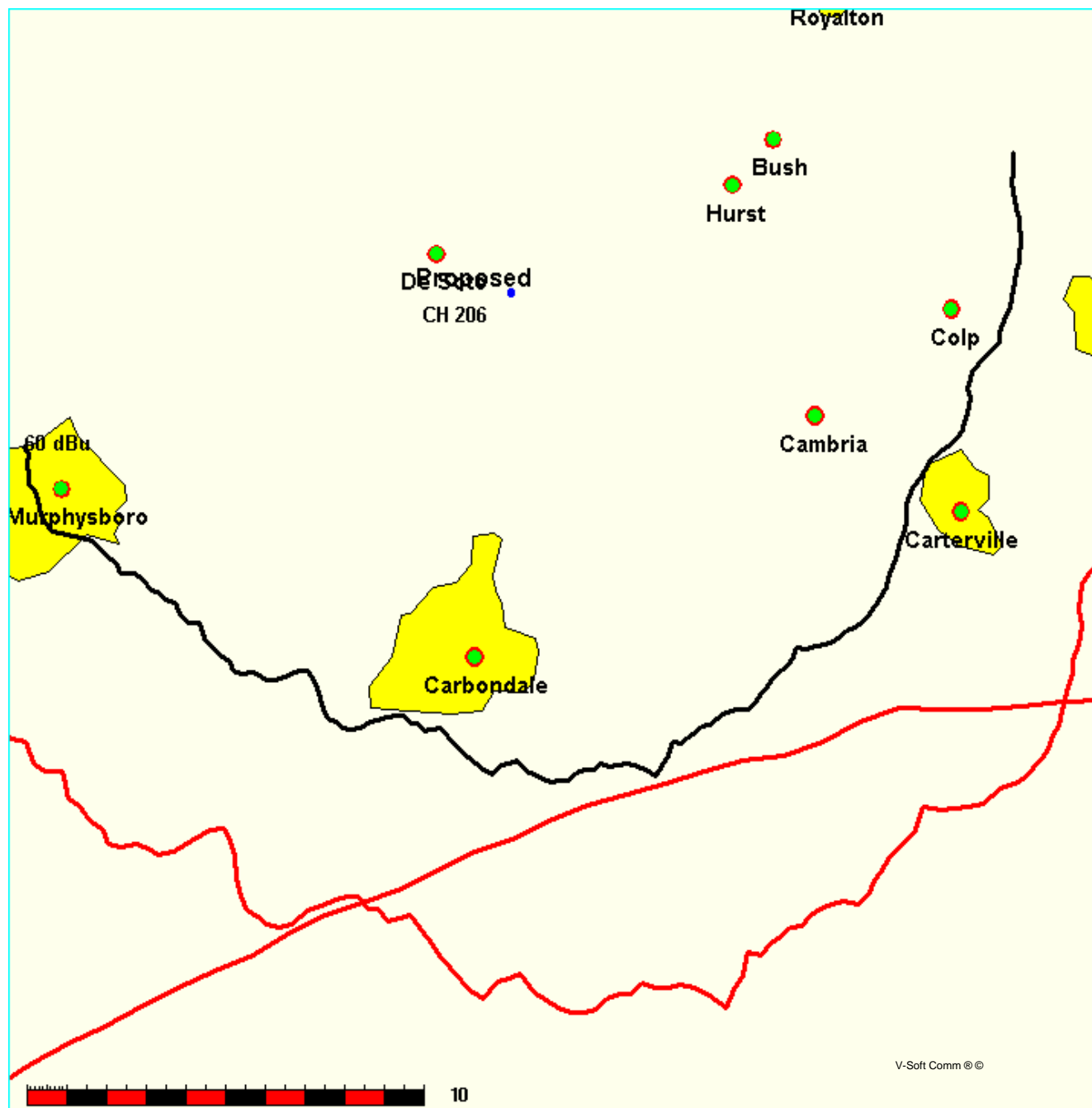


Figure 2-2

08-16-2008 NED 30 Meter Terrain Data FMOver Analysis

Proposed
 Channel = 206A
 Max ERP = 0.77 kW
 RCAMSL = 173.72 M
 N. Lat. 37 48 34.9
 W. Lng. 89 12 23.8
 Protected
 60 dBu

WGCF BLED19970127KC
 Channel = 207C2
 Max ERP = 12 kW
 RCAMSL = 255 M
 N. Lat. 37 11 31.0
 W. Lng. 88 58 41.0
 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)
104.0	000.7700	0048.1	012.0	352.6	012.0000	0147.2	066.2	51.44
105.0	000.7700	0048.1	012.0	352.6	012.0000	0147.2	066.0	51.51
106.0	000.7700	0048.0	011.9	352.5	012.0000	0147.2	065.8	51.57
107.0	000.7700	0048.0	011.9	352.4	012.0000	0147.3	065.7	51.64
108.0	000.7700	0047.6	011.9	352.3	012.0000	0147.3	065.5	51.69
109.0	000.7700	0046.9	011.8	352.2	012.0000	0147.4	065.3	51.75
110.0	000.7700	0045.5	011.6	351.9	012.0000	0147.6	065.2	51.79
111.0	000.7700	0044.7	011.5	351.8	012.0000	0147.9	065.1	51.85
112.0	000.7700	0044.0	011.4	351.6	012.0000	0148.0	065.0	51.90
113.0	000.7700	0043.8	011.4	351.5	012.0000	0148.1	064.8	51.95
114.0	000.7700	0043.8	011.4	351.4	012.0000	0148.1	064.7	52.01
115.0	000.7700	0043.5	011.4	351.3	012.0000	0148.2	064.5	52.06
116.0	000.7700	0043.2	011.3	351.1	012.0000	0148.3	064.4	52.11
117.0	000.7700	0043.1	011.3	351.0	012.0000	0148.4	064.2	52.17
118.0	000.7700	0043.4	011.4	351.0	012.0000	0148.5	064.1	52.24
119.0	000.7700	0044.0	011.4	350.9	012.0000	0148.6	063.8	52.31
120.0	000.7700	0044.9	011.5	350.9	012.0000	0148.7	063.6	52.39
121.0	000.7700	0045.6	011.6	350.8	012.0000	0148.8	063.4	52.46
122.0	000.7700	0045.9	011.7	350.7	012.0000	0148.9	063.2	52.53
123.0	000.7700	0046.1	011.7	350.6	012.0000	0149.0	063.1	52.60
124.0	000.7700	0046.9	011.8	350.6	012.0000	0149.0	062.8	52.67
125.0	000.7700	0047.2	011.8	350.5	012.0000	0149.2	062.7	52.74
126.0	000.7700	0047.7	011.9	350.4	012.0000	0149.4	062.5	52.82
127.0	000.7700	0048.2	012.0	350.3	012.0000	0149.6	062.3	52.90
128.0	000.7700	0048.9	012.1	350.2	012.0000	0149.8	062.1	52.98
129.0	000.7700	0049.1	012.1	350.0	012.0000	0150.1	061.9	53.04
130.0	000.7700	0049.5	012.1	349.9	012.0000	0150.1	061.7	53.11
131.0	000.7700	0049.7	012.2	349.8	012.0000	0150.2	061.6	53.16
132.0	000.7700	0049.8	012.2	349.6	012.0000	0150.2	061.5	53.21
133.0	000.7700	0049.8	012.2	349.5	012.0000	0150.1	061.3	53.25
134.0	000.7700	0049.4	012.1	349.3	012.0000	0149.8	061.2	53.27
135.0	000.7700	0048.7	012.0	349.1	012.0000	0149.2	061.2	53.25
136.0	000.7700	0048.6	012.0	348.9	012.0000	0148.8	061.1	53.27
137.0	000.7700	0048.5	012.0	348.7	012.0000	0148.5	061.0	53.28
138.0	000.7700	0047.7	011.9	348.5	012.0000	0147.8	061.0	53.26
139.0	000.7700	0046.8	011.8	348.3	012.0000	0147.2	061.0	53.23
140.0	000.7700	0046.0	011.7	348.1	012.0000	0146.9	061.0	53.21
141.0	000.7700	0044.6	011.5	347.9	012.0000	0146.9	061.0	53.19
142.0	000.7700	0045.4	011.6	347.7	012.0000	0146.8	060.8	53.25
143.0	000.7700	0046.1	011.7	347.6	012.0000	0146.6	060.7	53.30
144.0	000.7700	0046.2	011.7	347.4	012.0000	0146.4	060.6	53.32
145.0	000.7700	0046.5	011.8	347.3	012.0000	0146.3	060.5	53.36
146.0	000.7700	0046.8	011.8	347.1	012.0000	0146.2	060.4	53.39
147.0	000.7700	0047.4	011.9	346.9	012.0000	0146.0	060.2	53.43
148.0	000.7700	0047.9	011.9	346.8	012.0000	0145.9	060.1	53.47
149.0	000.7700	0048.8	012.0	346.6	012.0000	0145.8	059.9	53.52
150.0	000.7700	0049.2	012.1	346.4	012.0000	0145.9	059.8	53.57
151.0	000.7700	0048.1	012.0	346.2	012.0000	0146.4	059.9	53.57
152.0	000.7700	0047.7	011.9	346.0	012.0000	0146.9	059.9	53.60
153.0	000.7700	0047.7	011.9	345.8	012.0000	0146.7	059.8	53.61
154.0	000.7700	0047.8	011.9	345.6	012.0000	0146.3	059.8	53.60
155.0	000.7700	0048.4	012.0	345.4	012.0000	0146.3	059.7	53.64
156.0	000.7700	0048.1	012.0	345.2	012.0000	0146.4	059.7	53.65
157.0	000.7700	0048.5	012.0	345.0	012.0000	0146.6	059.6	53.69
158.0	000.7700	0048.8	012.0	344.8	012.0000	0146.7	059.5	53.72
159.0	000.7700	0049.6	012.1	344.6	012.0000	0146.9	059.4	53.77
160.0	000.7700	0048.7	012.0	344.4	012.0000	0146.8	059.5	53.73
161.0	000.7700	0051.0	012.3	344.2	012.0000	0146.8	059.2	53.84
162.0	000.7700	0052.2	012.5	344.0	012.0000	0146.7	059.1	53.89
163.0	000.7700	0054.1	012.7	343.8	012.0000	0146.4	058.8	53.96
164.0	000.7700	0052.2	012.5	343.6	012.0000	0146.2	059.1	53.87
165.0	000.7700	0050.8	012.3	343.4	012.0000	0146.2	059.2	53.80
166.0	000.7700	0050.1	012.2	343.2	012.0000	0146.4	059.3	53.78
167.0	000.7700	0050.0	012.2	343.0	012.0000	0146.7	059.3	53.79

Figure 2-2

168.0	000.7700	0049.7	012.2	342.8	012.0000	0147.1	059.4	53.79
169.0	000.7700	0049.0	012.1	342.6	012.0000	0147.1	059.5	53.75
170.0	000.7700	0049.9	012.2	342.4	012.0000	0147.1	059.4	53.78
171.0	000.7700	0049.7	012.2	342.2	012.0000	0147.0	059.5	53.75
172.0	000.7700	0050.1	012.2	342.0	012.0000	0147.0	059.5	53.76
173.0	000.7700	0051.2	012.3	341.8	012.0000	0146.8	059.4	53.78
174.0	000.7700	0051.2	012.3	341.6	012.0000	0146.7	059.4	53.76
175.0	000.7700	0051.2	012.3	341.4	012.0000	0146.7	059.5	53.74
176.0	000.7700	0050.5	012.3	341.2	012.0000	0146.7	059.6	53.69
177.0	000.7700	0049.6	012.1	341.0	012.0000	0146.5	059.8	53.62
178.0	000.7700	0048.7	012.0	340.9	012.0000	0146.2	059.9	53.54
179.0	000.7700	0046.6	011.8	340.7	012.0000	0146.0	060.3	53.42
180.0	000.7700	0047.1	011.8	340.5	012.0000	0145.6	060.3	53.40
181.0	000.7700	0047.5	011.9	340.3	012.0000	0145.5	060.3	53.38
182.0	000.7700	0049.4	012.1	340.1	012.0000	0145.6	060.1	53.44
183.0	000.7700	0048.7	012.0	339.9	012.0000	0145.6	060.3	53.38
184.0	000.7700	0047.5	011.9	339.8	012.0000	0145.6	060.5	53.30
185.0	000.7700	0046.3	011.7	339.7	012.0000	0145.6	060.8	53.22
186.0	000.7700	0045.1	011.6	339.6	012.0000	0145.6	061.0	53.14
187.0	000.7700	0043.9	011.4	339.5	012.0000	0145.6	061.2	53.05
188.0	000.7700	0042.7	011.3	339.4	012.0000	0145.6	061.4	52.97
189.0	000.7700	0041.7	011.1	339.3	012.0000	0145.7	061.7	52.90
190.0	000.7700	0042.1	011.2	339.1	012.0000	0145.8	061.7	52.89
191.0	000.7700	0042.6	011.2	338.9	012.0000	0145.8	061.8	52.88
192.0	000.7700	0041.6	011.1	338.8	012.0000	0145.9	062.0	52.80
193.0	000.7700	0041.8	011.1	338.7	012.0000	0145.8	062.1	52.77
194.0	000.7700	0040.8	011.0	338.6	012.0000	0145.7	062.3	52.69
195.0	000.7700	0041.1	011.0	338.4	012.0000	0145.6	062.4	52.65
196.0	000.7700	0041.8	011.1	338.2	012.0000	0145.4	062.4	52.63
197.0	000.7700	0042.8	011.3	338.0	012.0000	0145.2	062.4	52.61
198.0	000.7700	0043.6	011.4	337.8	012.0000	0145.1	062.5	52.59
199.0	000.7700	0045.5	011.6	337.5	012.0000	0145.0	062.4	52.60
200.0	000.7700	0046.1	011.7	337.3	012.0000	0145.0	062.5	52.58
201.0	000.7700	0046.3	011.7	337.2	012.0000	0144.9	062.6	52.53
202.0	000.7700	0045.9	011.7	337.1	012.0000	0144.8	062.8	52.46
203.0	000.7700	0045.8	011.7	337.0	012.0000	0144.7	063.0	52.40
204.0	000.7700	0044.6	011.5	336.9	012.0000	0144.7	063.2	52.32
205.0	000.7700	0043.2	011.3	337.0	012.0000	0144.7	063.5	52.23
206.0	000.7700	0041.4	011.1	337.0	012.0000	0144.8	063.8	52.13
207.0	000.7700	0040.3	010.9	337.0	012.0000	0144.8	064.0	52.04
208.0	000.7700	0039.5	010.8	337.0	012.0000	0144.7	064.2	51.97
209.0	000.7700	0040.3	010.9	336.8	012.0000	0144.7	064.3	51.94
210.0	000.7700	0041.9	011.1	336.5	012.0000	0145.0	064.3	51.95
211.0	000.7700	0043.9	011.4	336.2	012.0000	0145.2	064.4	51.96
212.0	000.7700	0044.9	011.5	336.0	012.0000	0145.2	064.4	51.93
213.0	000.7700	0045.0	011.6	335.9	012.0000	0145.2	064.6	51.88
214.0	000.7700	0045.1	011.6	335.8	012.0000	0145.4	064.8	51.83
215.0	000.7700	0046.5	011.8	335.6	012.0000	0145.6	064.8	51.81
216.0	000.7700	0046.9	011.8	335.5	012.0000	0145.7	065.0	51.77
217.0	000.7700	0046.1	011.7	335.4	012.0000	0145.7	065.2	51.69
218.0	000.7700	0046.2	011.7	335.4	012.0000	0145.7	065.4	51.64
219.0	000.7700	0046.0	011.7	335.3	012.0000	0145.7	065.6	51.58
220.0	000.7700	0045.7	011.7	335.2	012.0000	0145.7	065.8	51.51
221.0	000.7700	0045.9	011.7	335.2	012.0000	0145.8	066.0	51.46
222.0	000.7700	0044.9	011.6	335.2	012.0000	0145.8	066.2	51.38
223.0	000.7700	0044.2	011.5	335.2	012.0000	0145.8	066.4	51.31
224.0	000.7700	0045.4	011.6	335.0	012.0000	0145.9	066.6	51.27

08-16-2008 NED 30 Meter Terrain Data

WGCF BLED19970127KC
Channel = 207C2
Max ERP = 12 kW
RCAMSL = 255 M
N. Lat. 37 11 31.0
W. Lng. 88 58 41.0
Protected
60 dBu

Proposed
Channel = 206A
Max ERP = 0.77 kW
RCAMSL = 173.72 M
N. Lat. 37 48 34.9
W. Lng. 89 12 23.8
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
284.0	012.0000	0131.6	037.5	195.1	000.7700	0041.4	061.7	33.69
285.0	012.0000	0133.3	037.7	195.3	000.7700	0041.6	061.1	33.86
286.0	012.0000	0134.0	037.8	195.4	000.7700	0041.5	060.4	34.02
287.0	012.0000	0133.7	037.8	195.4	000.7700	0041.5	059.8	34.18

Figure 2-2

288.0	012.0000	0133.7	037.8	195.3	000.7700	0041.6	059.1	34.35
289.0	012.0000	0133.3	037.7	195.3	000.7700	0041.5	058.5	34.51
290.0	012.0000	0135.5	038.0	195.5	000.7700	0041.5	057.8	34.67
291.0	012.0000	0136.7	038.1	195.6	000.7700	0041.5	057.1	34.84
292.0	012.0000	0137.3	038.2	195.6	000.7700	0041.4	056.4	35.01
293.0	012.0000	0137.9	038.3	195.6	000.7700	0041.5	055.8	35.18
294.0	012.0000	0139.0	038.4	195.6	000.7700	0041.4	055.1	35.36
295.0	012.0000	0139.0	038.4	195.5	000.7700	0041.5	054.4	35.54
296.0	012.0000	0140.4	038.6	195.6	000.7700	0041.5	053.7	35.71
297.0	012.0000	0143.2	038.9	195.8	000.7700	0041.4	053.0	35.90
298.0	012.0000	0143.3	038.9	195.7	000.7700	0041.4	052.3	36.07
299.0	012.0000	0143.2	038.9	195.5	000.7700	0041.5	051.7	36.26
300.0	012.0000	0144.0	039.0	195.4	000.7700	0041.5	051.0	36.44
301.0	012.0000	0144.7	039.1	195.3	000.7700	0041.5	050.3	36.62
302.0	012.0000	0145.8	039.2	195.2	000.7700	0041.5	049.6	36.80
303.0	012.0000	0147.3	039.4	195.2	000.7700	0041.5	048.9	36.98
304.0	012.0000	0148.3	039.6	195.1	000.7700	0041.3	048.2	37.13
305.0	012.0000	0149.2	039.7	194.9	000.7700	0041.0	047.5	37.27
306.0	012.0000	0149.9	039.7	194.7	000.7700	0040.9	046.9	37.43
307.0	012.0000	0149.8	039.7	194.4	000.7700	0040.7	046.2	37.57
308.0	012.0000	0150.7	039.8	194.2	000.7700	0040.8	045.6	37.78
309.0	012.0000	0151.0	039.9	193.9	000.7700	0041.0	044.9	38.00
310.0	012.0000	0151.3	039.9	193.5	000.7700	0041.6	044.3	38.30
311.0	012.0000	0151.8	040.0	193.2	000.7700	0041.8	043.6	38.53
312.0	012.0000	0152.4	040.0	192.8	000.7700	0041.8	043.0	38.73
313.0	012.0000	0153.0	040.1	192.4	000.7700	0041.5	042.3	38.89
314.0	012.0000	0152.9	040.1	191.9	000.7700	0041.6	041.7	39.10
315.0	012.0000	0152.9	040.1	191.4	000.7700	0041.5	041.1	39.28
316.0	012.0000	0152.5	040.1	190.8	000.7700	0043.1	040.6	39.75
317.0	012.0000	0152.0	040.0	190.1	000.7700	0042.3	040.1	39.79
318.0	012.0000	0151.4	039.9	189.5	000.7700	0041.8	039.6	39.88
319.0	012.0000	0151.0	039.9	188.8	000.7700	0041.9	039.1	40.07
320.0	012.0000	0149.8	039.7	187.9	000.7700	0042.8	038.6	40.38
321.0	012.0000	0149.0	039.6	187.1	000.7700	0043.8	038.2	40.73
322.0	012.0000	0148.7	039.6	186.3	000.7700	0044.4	037.7	41.01
323.0	012.0000	0149.0	039.6	185.6	000.7700	0045.2	037.2	41.34
324.0	012.0000	0148.7	039.6	184.8	000.7700	0046.6	036.8	41.76
325.0	012.0000	0148.4	039.6	183.9	000.7700	0047.4	036.4	42.07
326.0	012.0000	0148.3	039.6	183.1	000.7700	0048.4	035.9	42.40
327.0	012.0000	0148.3	039.6	182.2	000.7700	0049.5	035.5	42.75
328.0	012.0000	0147.8	039.5	181.2	000.7700	0047.8	035.2	42.59
329.0	012.0000	0147.0	039.4	180.2	000.7700	0047.3	034.9	42.62
330.0	012.0000	0146.5	039.3	179.1	000.7700	0046.6	034.6	42.60
331.0	012.0000	0146.3	039.3	178.1	000.7700	0048.4	034.3	43.04
332.0	012.0000	0145.8	039.2	177.1	000.7700	0049.6	034.1	43.36
333.0	012.0000	0145.1	039.2	175.9	000.7700	0050.6	033.9	43.61
334.0	012.0000	0145.7	039.2	174.9	000.7700	0051.3	033.6	43.86
335.0	012.0000	0145.9	039.3	173.8	000.7700	0051.2	033.3	43.95
336.0	012.0000	0145.2	039.2	172.7	000.7700	0050.8	033.2	43.93
337.0	012.0000	0144.8	039.1	171.5	000.7700	0049.7	033.0	43.80
338.0	012.0000	0145.2	039.2	170.4	000.7700	0050.0	032.8	43.94
339.0	012.0000	0145.8	039.2	169.2	000.7700	0049.1	032.6	43.88
340.0	012.0000	0145.6	039.2	168.0	000.7700	0049.7	032.5	44.01
341.0	012.0000	0146.5	039.3	166.9	000.7700	0050.0	032.3	44.15
342.0	012.0000	0147.0	039.4	165.7	000.7700	0050.3	032.2	44.26
343.0	012.0000	0146.7	039.4	164.4	000.7700	0051.2	032.2	44.41
344.0	012.0000	0146.6	039.3	163.2	000.7700	0054.4	032.2	44.91
345.0	012.0000	0146.6	039.3	162.0	000.7700	0052.2	032.3	44.56
346.0	012.0000	0146.9	039.4	160.8	000.7700	0050.7	032.3	44.29
347.0	012.0000	0146.1	039.3	159.6	000.7700	0049.3	032.4	43.99
348.0	012.0000	0146.9	039.4	158.4	000.7700	0048.9	032.5	43.90
349.0	012.0000	0149.0	039.6	157.1	000.7700	0048.7	032.3	43.93
350.0	012.0000	0150.1	039.8	155.9	000.7700	0047.9	032.4	43.78
351.0	012.0000	0148.5	039.6	154.8	000.7700	0048.1	032.7	43.66
352.0	012.0000	0147.5	039.5	153.7	000.7700	0047.9	033.0	43.48
353.0	012.0000	0147.0	039.4	152.6	000.7700	0047.7	033.3	43.34
354.0	012.0000	0147.1	039.4	151.5	000.7700	0047.9	033.6	43.26
355.0	012.0000	0146.6	039.3	150.5	000.7700	0048.8	033.9	43.28
356.0	012.0000	0147.1	039.4	149.4	000.7700	0049.1	034.1	43.24
357.0	012.0000	0146.4	039.3	148.4	000.7700	0048.2	034.5	42.92
358.0	012.0000	0145.1	039.2	147.6	000.7700	0047.8	035.0	42.66
359.0	012.0000	0143.9	039.0	146.8	000.7700	0047.3	035.5	42.39
000.0	012.0000	0145.2	039.2	145.7	000.7700	0046.6	035.7	42.17
001.0	012.0000	0145.8	039.2	144.7	000.7700	0046.4	036.1	42.00
002.0	012.0000	0145.6	039.2	143.9	000.7700	0046.1	036.5	41.78
003.0	012.0000	0147.0	039.4	142.9	000.7700	0046.0	036.8	41.64
004.0	012.0000	0147.0	039.4	142.1	000.7700	0045.5	037.3	41.38
005.0	012.0000	0147.4	039.4	141.3	000.7700	0044.5	037.7	41.04
006.0	012.0000	0146.7	039.3	140.6	000.7700	0045.2	038.2	40.96
007.0	012.0000	0146.1	039.3	140.0	000.7700	0046.0	038.8	40.91

Figure 2-2

008.0	012.0000	0146.3	039.3	139.3	000.7700	0046.5	039.3	40.82
009.0	012.0000	0147.1	039.4	138.5	000.7700	0047.2	039.7	40.76
010.0	012.0000	0147.7	039.5	137.8	000.7700	0047.8	040.2	40.69
011.0	012.0000	0148.4	039.6	137.2	000.7700	0048.4	040.7	40.61
012.0	012.0000	0148.4	039.6	136.6	000.7700	0048.5	041.3	40.44
013.0	012.0000	0149.5	039.7	135.9	000.7700	0048.6	041.8	40.27
014.0	012.0000	0151.5	039.9	135.1	000.7700	0048.6	042.3	40.12
015.0	012.0000	0152.7	040.1	134.5	000.7700	0049.0	042.8	40.00
016.0	012.0000	0153.2	040.1	134.0	000.7700	0049.5	043.4	39.87
017.0	012.0000	0152.7	040.1	133.6	000.7700	0049.7	044.0	39.69
018.0	012.0000	0152.3	040.0	133.3	000.7700	0049.8	044.7	39.50
019.0	012.0000	0152.2	040.0	132.9	000.7700	0049.8	045.3	39.30
020.0	012.0000	0152.2	040.0	132.6	000.7700	0049.9	045.9	39.11
021.0	012.0000	0151.5	039.9	132.3	000.7700	0049.9	046.6	38.90
022.0	012.0000	0151.0	039.9	132.1	000.7700	0049.8	047.3	38.69
023.0	012.0000	0150.3	039.8	131.9	000.7700	0049.8	048.0	38.49
024.0	012.0000	0149.1	039.6	131.8	000.7700	0049.8	048.7	38.29
025.0	012.0000	0149.0	039.6	131.6	000.7700	0049.9	049.4	38.10
026.0	012.0000	0149.0	039.6	131.4	000.7700	0049.9	050.0	37.91
027.0	012.0000	0147.9	039.5	131.3	000.7700	0049.9	050.7	37.71
028.0	012.0000	0147.0	039.4	131.2	000.7700	0049.9	051.4	37.50
029.0	012.0000	0147.2	039.4	131.1	000.7700	0049.8	052.1	37.29
030.0	012.0000	0146.4	039.3	131.0	000.7700	0049.7	052.8	37.09
031.0	012.0000	0145.6	039.2	131.0	000.7700	0049.7	053.5	36.89
032.0	012.0000	0143.4	038.9	131.1	000.7700	0049.8	054.2	36.69
033.0	012.0000	0142.3	038.8	131.2	000.7700	0049.8	054.9	36.49
034.0	012.0000	0141.5	038.7	131.2	000.7700	0049.8	055.6	36.30
035.0	012.0000	0143.2	038.9	130.9	000.7700	0049.7	056.2	36.09
036.0	012.0000	0143.4	038.9	130.8	000.7700	0049.6	056.9	35.90
037.0	012.0000	0143.1	038.9	130.8	000.7700	0049.6	057.6	35.70
038.0	012.0000	0142.5	038.8	130.8	000.7700	0049.6	058.2	35.52
039.0	012.0000	0142.9	038.9	130.7	000.7700	0049.6	058.9	35.32
040.0	012.0000	0141.9	038.8	130.8	000.7700	0049.6	059.6	35.14
041.0	012.0000	0140.7	038.6	131.0	000.7700	0049.7	060.3	34.97
042.0	012.0000	0140.1	038.5	131.0	000.7700	0049.8	060.9	34.79
043.0	012.0000	0142.4	038.8	130.8	000.7700	0049.6	061.6	34.60
044.0	012.0000	0141.3	038.7	130.9	000.7700	0049.7	062.3	34.43

The map displays the Evansville, Indiana area, including major roads and cities. The proposed WVEC-TV station is located near the intersection of US-41 and US-52, south of the existing WVEC-TV station. Signal strength contours are shown for 40 dBu and 60 dBu. The map also shows the location of the proposed station relative to the existing WVEC-TV station.

Figure 2-4
Proposed Murphysboro, IL

FMCommander Single Allocation Study
08-16-2008

Proposed CH 206 A	WVJC	CH 206 B	BMLED20040609ABE
0.77 kW 173.7 M COR	50.0 kW, 229 M COR		
Prot. = 60 dBu	Prot. = 60 dBu		
Intef. = 40 dBu	Intef. = 40 dBu		

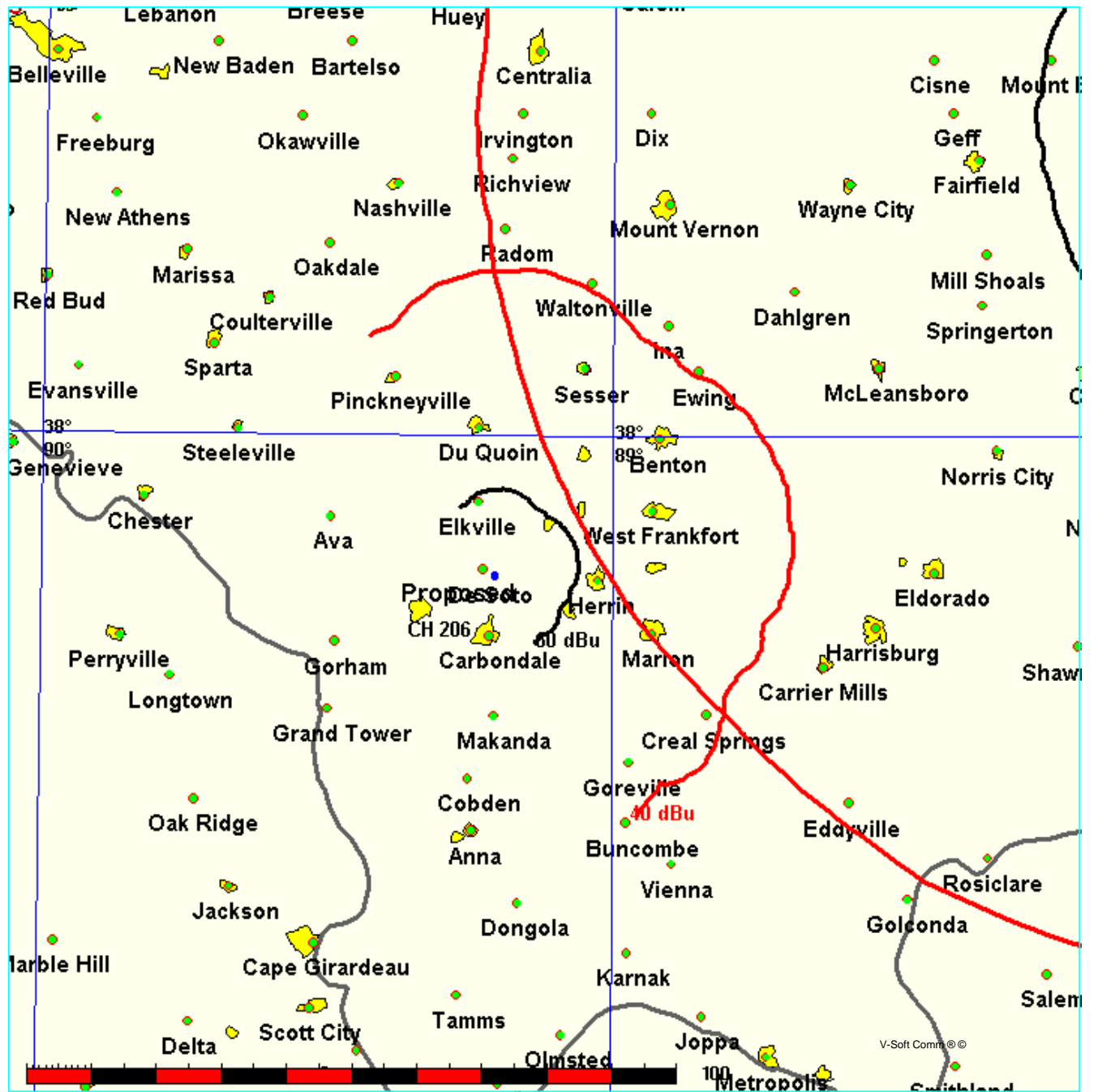


Figure 2-5

08-16-2008 NED 30 Meter Terrain Data FMOver Analysis

Proposed
 Channel = 206A
 Max ERP = 0.77 kW
 RCAMSL = 173.72 M
 N. Lat. 37 48 34.9
 W. Lng. 89 12 23.8
 Protected
 60 dBu

WVJC BMLED20040609ABE
 Channel = 206B
 Max ERP = 50 kW
 RCAMSL = 229 M
 N. Lat. 38 26 29.0
 W. Lng. 87 45 26.0
 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)
001.0	000.7700	0056.7	013.0	246.1	050.0000	0093.4	139.1	38.15
002.0	000.7700	0056.8	013.0	246.0	050.0000	0093.3	138.9	38.19
003.0	000.7700	0057.3	013.0	246.0	050.0000	0093.3	138.6	38.23
004.0	000.7700	0057.5	013.0	246.0	050.0000	0093.2	138.4	38.27
005.0	000.7700	0058.0	013.1	245.9	050.0000	0093.2	138.2	38.31
006.0	000.7700	0058.4	013.1	245.9	050.0000	0093.1	138.0	38.35
007.0	000.7700	0058.5	013.2	245.9	050.0000	0093.0	137.8	38.39
008.0	000.7700	0058.3	013.1	245.8	050.0000	0093.0	137.6	38.42
009.0	000.7700	0058.3	013.1	245.8	050.0000	0093.0	137.4	38.46
010.0	000.7700	0058.5	013.2	245.7	050.0000	0093.0	137.2	38.50
011.0	000.7700	0058.1	013.1	245.6	050.0000	0093.1	137.0	38.53
012.0	000.7700	0057.6	013.1	245.6	050.0000	0093.3	136.9	38.57
013.0	000.7700	0057.2	013.0	245.5	050.0000	0093.5	136.7	38.61
014.0	000.7700	0057.1	013.0	245.4	050.0000	0093.7	136.6	38.64
015.0	000.7700	0057.0	013.0	245.4	050.0000	0093.7	136.4	38.68
016.0	000.7700	0056.7	013.0	245.3	050.0000	0093.8	136.2	38.71
017.0	000.7700	0056.4	012.9	245.2	050.0000	0093.8	136.1	38.74
018.0	000.7700	0055.7	012.9	245.1	050.0000	0093.8	136.0	38.76
019.0	000.7700	0055.2	012.8	245.0	050.0000	0093.8	135.9	38.78
020.0	000.7700	0055.1	012.8	245.0	050.0000	0093.8	135.7	38.81
021.0	000.7700	0055.0	012.8	244.9	050.0000	0093.9	135.6	38.85
022.0	000.7700	0054.7	012.8	244.8	050.0000	0094.0	135.4	38.87
023.0	000.7700	0054.0	012.7	244.7	050.0000	0094.0	135.3	38.89
024.0	000.7700	0053.2	012.6	244.6	050.0000	0094.0	135.3	38.90
025.0	000.7700	0052.2	012.5	244.5	050.0000	0094.0	135.2	38.92
026.0	000.7700	0051.6	012.4	244.4	050.0000	0094.1	135.1	38.93
027.0	000.7700	0051.1	012.3	244.4	050.0000	0094.0	135.1	38.95
028.0	000.7700	0050.5	012.3	244.3	050.0000	0094.0	135.0	38.96
029.0	000.7700	0049.9	012.2	244.2	050.0000	0093.9	134.9	38.97
030.0	000.7700	0049.4	012.1	244.1	050.0000	0093.8	134.9	38.98
031.0	000.7700	0048.6	012.0	244.0	050.0000	0093.8	134.8	38.98
032.0	000.7700	0048.4	012.0	243.9	050.0000	0093.7	134.8	39.00
033.0	000.7700	0048.4	012.0	243.8	050.0000	0093.7	134.6	39.02
034.0	000.7700	0048.7	012.0	243.8	050.0000	0093.8	134.5	39.05
035.0	000.7700	0048.9	012.1	243.7	050.0000	0093.7	134.4	39.07
036.0	000.7700	0049.0	012.1	243.6	050.0000	0093.8	134.3	39.09
037.0	000.7700	0049.2	012.1	243.5	050.0000	0093.8	134.2	39.12
038.0	000.7700	0049.4	012.1	243.5	050.0000	0093.8	134.0	39.14
039.0	000.7700	0049.9	012.2	243.4	050.0000	0093.9	133.9	39.17
040.0	000.7700	0049.7	012.2	243.3	050.0000	0094.1	133.8	39.19
041.0	000.7700	0049.1	012.1	243.2	050.0000	0094.4	133.8	39.20
042.0	000.7700	0049.2	012.1	243.1	050.0000	0094.6	133.7	39.22
043.0	000.7700	0049.5	012.1	243.0	050.0000	0094.8	133.6	39.25
044.0	000.7700	0049.7	012.2	242.9	050.0000	0095.0	133.5	39.27
045.0	000.7700	0049.8	012.2	242.9	050.0000	0095.1	133.5	39.29
046.0	000.7700	0050.8	012.3	242.8	050.0000	0095.3	133.3	39.33
047.0	000.7700	0051.7	012.4	242.7	050.0000	0095.4	133.1	39.37
048.0	000.7700	0052.8	012.5	242.6	050.0000	0095.6	133.0	39.40
049.0	000.7700	0053.5	012.6	242.6	050.0000	0095.6	132.8	39.43
050.0	000.7700	0053.9	012.7	242.5	050.0000	0095.5	132.7	39.45
051.0	000.7700	0054.1	012.7	242.4	050.0000	0095.5	132.7	39.46
052.0	000.7700	0054.3	012.7	242.3	050.0000	0095.4	132.6	39.47
053.0	000.7700	0054.6	012.7	242.2	050.0000	0095.2	132.5	39.47
054.0	000.7700	0054.3	012.7	242.1	050.0000	0095.0	132.5	39.47
055.0	000.7700	0054.3	012.7	242.0	050.0000	0095.0	132.5	39.47
056.0	000.7700	0055.6	012.8	241.9	050.0000	0094.9	132.3	39.50
057.0	000.7700	0056.3	012.9	241.8	050.0000	0094.9	132.2	39.52
058.0	000.7700	0056.3	012.9	241.7	050.0000	0094.8	132.2	39.52
059.0	000.7700	0056.4	012.9	241.6	050.0000	0094.8	132.2	39.52
060.0	000.7700	0056.7	013.0	241.5	050.0000	0094.7	132.2	39.53
061.0	000.7700	0056.2	012.9	241.4	050.0000	0094.7	132.2	39.52
062.0	000.7700	0056.9	013.0	241.3	050.0000	0094.8	132.2	39.53
063.0	000.7700	0056.9	013.0	241.2	050.0000	0094.9	132.2	39.53
064.0	000.7700	0057.3	013.0	241.1	050.0000	0095.0	132.1	39.54

Figure 2-5

065.0	000.7700	0057.7	013.1	241.0	050.0000	0095.1	132.1	39.55
066.0	000.7700	0057.8	013.1	240.9	050.0000	0095.2	132.1	39.56
067.0	000.7700	0057.7	013.1	240.8	050.0000	0095.5	132.2	39.56
068.0	000.7700	0057.7	013.1	240.7	050.0000	0095.8	132.2	39.56
069.0	000.7700	0058.2	013.1	240.6	050.0000	0096.0	132.2	39.57
070.0	000.7700	0058.3	013.1	240.5	050.0000	0096.1	132.2	39.57
071.0	000.7700	0058.2	013.1	240.4	050.0000	0096.2	132.2	39.56
072.0	000.7700	0058.6	013.2	240.3	050.0000	0096.3	132.3	39.56
073.0	000.7700	0059.0	013.2	240.2	050.0000	0096.4	132.3	39.56
074.0	000.7700	0058.6	013.2	240.1	050.0000	0096.5	132.4	39.55
075.0	000.7700	0058.5	013.2	240.0	050.0000	0096.7	132.4	39.54
076.0	000.7700	0057.8	013.1	240.0	050.0000	0096.8	132.6	39.52
077.0	000.7700	0057.3	013.0	239.9	050.0000	0096.8	132.7	39.50
078.0	000.7700	0056.5	012.9	239.8	050.0000	0096.9	132.8	39.47
079.0	000.7700	0056.4	012.9	239.7	050.0000	0096.9	132.9	39.45
080.0	000.7700	0056.5	012.9	239.6	050.0000	0097.0	133.0	39.44
081.0	000.7700	0056.5	012.9	239.5	050.0000	0097.0	133.1	39.43
082.0	000.7700	0057.1	013.0	239.4	050.0000	0097.1	133.1	39.42
083.0	000.7700	0056.7	013.0	239.3	050.0000	0097.1	133.2	39.40
084.0	000.7700	0056.6	012.9	239.2	050.0000	0097.1	133.3	39.38
085.0	000.7700	0056.6	013.0	239.2	050.0000	0097.0	133.4	39.36
086.0	000.7700	0056.1	012.9	239.1	050.0000	0097.0	133.6	39.33
087.0	000.7700	0055.7	012.9	239.0	050.0000	0097.0	133.7	39.30
088.0	000.7700	0055.0	012.8	238.9	050.0000	0097.0	133.9	39.26
089.0	000.7700	0054.6	012.7	238.9	050.0000	0097.0	134.1	39.24
090.0	000.7700	0054.3	012.7	238.8	050.0000	0096.9	134.2	39.20
091.0	000.7700	0054.2	012.7	238.7	050.0000	0096.8	134.3	39.18
092.0	000.7700	0053.6	012.6	238.7	050.0000	0096.9	134.5	39.14
093.0	000.7700	0053.0	012.5	238.6	050.0000	0096.9	134.7	39.11
094.0	000.7700	0052.3	012.5	238.5	050.0000	0097.0	134.9	39.07
095.0	000.7700	0051.6	012.4	238.5	050.0000	0097.0	135.1	39.04
096.0	000.7700	0051.8	012.4	238.4	050.0000	0097.1	135.2	39.02
097.0	000.7700	0050.7	012.3	238.4	050.0000	0097.1	135.4	38.97
098.0	000.7700	0049.4	012.1	238.3	050.0000	0097.1	135.7	38.92
099.0	000.7700	0048.3	012.0	238.3	050.0000	0097.1	135.9	38.87
100.0	000.7700	0047.3	011.9	238.3	050.0000	0097.1	136.2	38.83
101.0	000.7700	0047.2	011.8	238.2	050.0000	0097.1	136.3	38.80
102.0	000.7700	0047.1	011.8	238.2	050.0000	0097.2	136.5	38.77
103.0	000.7700	0047.9	011.9	238.1	050.0000	0097.2	136.5	38.76
104.0	000.7700	0048.1	012.0	238.0	050.0000	0097.1	136.7	38.73
105.0	000.7700	0048.1	012.0	238.0	050.0000	0097.1	136.8	38.70
106.0	000.7700	0048.0	011.9	237.9	050.0000	0097.1	137.0	38.67
107.0	000.7700	0048.0	011.9	237.8	050.0000	0097.0	137.2	38.63
108.0	000.7700	0047.6	011.9	237.8	050.0000	0097.0	137.3	38.60
109.0	000.7700	0046.9	011.8	237.8	050.0000	0097.0	137.6	38.55
110.0	000.7700	0045.5	011.6	237.8	050.0000	0097.0	137.8	38.50
111.0	000.7700	0044.7	011.5	237.8	050.0000	0097.0	138.1	38.46
112.0	000.7700	0044.0	011.4	237.8	050.0000	0097.0	138.3	38.42
113.0	000.7700	0043.8	011.4	237.7	050.0000	0097.1	138.5	38.38
114.0	000.7700	0043.8	011.4	237.7	050.0000	0097.1	138.6	38.35
115.0	000.7700	0043.5	011.4	237.6	050.0000	0097.1	138.8	38.31
116.0	000.7700	0043.2	011.3	237.6	050.0000	0097.1	139.0	38.28
117.0	000.7700	0043.1	011.3	237.6	050.0000	0097.1	139.2	38.24
118.0	000.7700	0043.4	011.4	237.5	050.0000	0097.2	139.3	38.22
119.0	000.7700	0044.0	011.4	237.5	050.0000	0097.2	139.5	38.19
120.0	000.7700	0044.9	011.5	237.4	050.0000	0097.2	139.6	38.17
121.0	000.7700	0045.6	011.6	237.3	050.0000	0097.2	139.7	38.14

08-16-2008 NED 30 Meter Terrain Data

WVJC BMLD20040609ABE
 Channel = 206B
 Max ERP = 50 kW
 RCAMSL = 229 M
 N. Lat. 38 26 29.0
 W. Lng. 87 45 26.0
 Protected
 60 dBu

Proposed
 Channel = 206A
 Max ERP = 0.77 kW
 RCAMSL = 173.72 M
 N. Lat. 37 48 34.9
 W. Lng. 89 12 23.8
 Interfering
 40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
181.0	050.0000	0108.3	046.2	078.7	000.7700	0056.3	128.9	20.65
182.0	050.0000	0108.3	046.2	078.7	000.7700	0056.3	128.1	20.79
183.0	050.0000	0108.2	046.2	078.6	000.7700	0056.3	127.3	20.94
184.0	050.0000	0108.0	046.1	078.5	000.7700	0056.4	126.6	21.08

Figure 2-5

185.0	050.0000	0108.0	046.1	078.4	000.7700	0056.4	125.8	21.22
186.0	050.0000	0108.1	046.1	078.3	000.7700	0056.4	125.0	21.36
187.0	050.0000	0108.3	046.2	078.2	000.7700	0056.4	124.2	21.51
188.0	050.0000	0108.5	046.2	078.1	000.7700	0056.5	123.5	21.65
189.0	050.0000	0108.7	046.2	078.0	000.7700	0056.5	122.7	21.79
190.0	050.0000	0108.9	046.3	077.9	000.7700	0056.5	121.9	21.93
191.0	050.0000	0109.0	046.3	077.7	000.7700	0056.7	121.2	22.07
192.0	050.0000	0109.2	046.3	077.6	000.7700	0057.0	120.4	22.22
193.0	050.0000	0109.5	046.4	077.4	000.7700	0057.2	119.6	22.37
194.0	050.0000	0109.7	046.4	077.3	000.7700	0057.4	118.9	22.51
195.0	050.0000	0109.6	046.4	077.1	000.7700	0057.4	118.2	22.64
196.0	050.0000	0109.6	046.4	076.9	000.7700	0057.3	117.5	22.76
197.0	050.0000	0109.5	046.4	076.7	000.7700	0057.2	116.8	22.89
198.0	050.0000	0109.3	046.3	076.5	000.7700	0057.4	116.1	23.02
199.0	050.0000	0108.9	046.3	076.3	000.7700	0057.6	115.4	23.15
200.0	050.0000	0108.8	046.2	076.1	000.7700	0057.8	114.7	23.27
201.0	050.0000	0108.4	046.2	075.8	000.7700	0058.0	114.1	23.40
202.0	050.0000	0107.9	046.1	075.5	000.7700	0058.2	113.5	23.52
203.0	050.0000	0107.9	046.1	075.3	000.7700	0058.4	112.8	23.64
204.0	050.0000	0107.8	046.1	075.0	000.7700	0058.5	112.2	23.76
205.0	050.0000	0107.5	046.0	074.8	000.7700	0058.5	111.6	23.87
206.0	050.0000	0107.7	046.1	074.5	000.7700	0058.3	111.0	23.98
207.0	050.0000	0109.3	046.3	074.3	000.7700	0058.4	110.2	24.12
208.0	050.0000	0109.2	046.3	074.1	000.7700	0058.5	109.6	24.23
209.0	050.0000	0107.3	046.0	073.6	000.7700	0058.7	109.2	24.31
210.0	050.0000	0106.0	045.8	073.3	000.7700	0058.8	108.8	24.39
211.0	050.0000	0104.0	045.4	072.8	000.7700	0059.2	108.5	24.45
212.0	050.0000	0102.3	045.2	072.4	000.7700	0059.1	108.2	24.51
213.0	050.0000	0101.7	045.0	072.1	000.7700	0058.7	107.8	24.57
214.0	050.0000	0101.2	045.0	071.7	000.7700	0058.4	107.3	24.64
215.0	050.0000	0100.3	044.8	071.3	000.7700	0058.3	107.0	24.70
216.0	050.0000	0099.8	044.7	071.0	000.7700	0058.2	106.6	24.78
217.0	050.0000	0099.4	044.6	070.6	000.7700	0058.3	106.2	24.85
218.0	050.0000	0099.0	044.6	070.2	000.7700	0058.3	105.8	24.92
219.0	050.0000	0098.1	044.4	069.8	000.7700	0058.3	105.5	24.97
220.0	050.0000	0097.3	044.3	069.4	000.7700	0058.2	105.2	25.02
221.0	050.0000	0096.3	044.1	069.0	000.7700	0058.2	105.0	25.06
222.0	050.0000	0096.1	044.1	068.6	000.7700	0057.9	104.7	25.12
223.0	050.0000	0095.7	044.0	068.2	000.7700	0057.7	104.4	25.16
224.0	050.0000	0095.2	043.9	067.8	000.7700	0057.8	104.1	25.21
225.0	050.0000	0093.9	043.7	067.4	000.7700	0057.7	104.0	25.23
226.0	050.0000	0094.6	043.8	067.0	000.7700	0057.7	103.6	25.31
227.0	050.0000	0095.1	043.9	066.7	000.7700	0057.7	103.3	25.37
228.0	050.0000	0095.3	043.9	066.3	000.7700	0057.6	103.0	25.43
229.0	050.0000	0095.7	044.0	065.9	000.7700	0057.9	102.6	25.50
230.0	050.0000	0095.7	044.0	065.5	000.7700	0058.1	102.4	25.55
231.0	050.0000	0096.0	044.0	065.1	000.7700	0057.7	102.2	25.59
232.0	050.0000	0097.2	044.3	064.7	000.7700	0057.7	101.8	25.66
233.0	050.0000	0097.9	044.4	064.3	000.7700	0057.5	101.5	25.72
234.0	050.0000	0098.4	044.5	063.8	000.7700	0057.2	101.2	25.75
235.0	050.0000	0098.3	044.5	063.4	000.7700	0057.2	101.1	25.77
236.0	050.0000	0097.7	044.3	063.0	000.7700	0056.9	101.1	25.76
237.0	050.0000	0097.2	044.3	062.5	000.7700	0056.9	101.1	25.77
238.0	050.0000	0097.1	044.2	062.1	000.7700	0056.9	101.0	25.78
239.0	050.0000	0097.0	044.2	061.6	000.7700	0056.6	101.0	25.78
240.0	050.0000	0096.8	044.2	061.2	000.7700	0056.3	101.0	25.76
241.0	050.0000	0095.1	043.9	060.8	000.7700	0056.3	101.3	25.71
242.0	050.0000	0095.0	043.9	060.3	000.7700	0056.5	101.3	25.71
243.0	050.0000	0094.9	043.8	059.9	000.7700	0056.7	101.3	25.71
244.0	050.0000	0093.8	043.6	059.5	000.7700	0056.7	101.5	25.67
245.0	050.0000	0093.8	043.6	059.0	000.7700	0056.4	101.6	25.64
246.0	050.0000	0093.3	043.5	058.6	000.7700	0056.3	101.8	25.61
247.0	050.0000	0094.0	043.7	058.2	000.7700	0056.4	101.7	25.62
248.0	050.0000	0093.9	043.6	057.8	000.7700	0056.2	101.9	25.58
249.0	050.0000	0093.5	043.6	057.4	000.7700	0056.2	102.1	25.55
250.0	050.0000	0093.0	043.5	056.9	000.7700	0056.4	102.3	25.51
251.0	050.0000	0092.0	043.3	056.6	000.7700	0055.9	102.6	25.42
252.0	050.0000	0091.5	043.2	056.2	000.7700	0055.7	102.9	25.36
253.0	050.0000	0091.6	043.2	055.8	000.7700	0055.0	103.1	25.30
254.0	050.0000	0090.6	043.0	055.4	000.7700	0054.3	103.5	25.19
255.0	050.0000	0091.1	043.1	055.0	000.7700	0054.3	103.6	25.17
256.0	050.0000	0090.6	043.1	054.6	000.7700	0054.1	104.0	25.10
257.0	050.0000	0090.9	043.1	054.2	000.7700	0054.2	104.2	25.06
258.0	050.0000	0091.1	043.1	053.8	000.7700	0054.3	104.5	25.01
259.0	050.0000	0092.1	043.3	053.4	000.7700	0054.5	104.6	25.00
260.0	050.0000	0092.5	043.4	053.0	000.7700	0054.6	104.9	24.95
261.0	050.0000	0091.4	043.2	052.7	000.7700	0054.5	105.4	24.86
262.0	050.0000	0090.3	043.0	052.4	000.7700	0054.5	105.9	24.75
263.0	050.0000	0089.5	042.8	052.1	000.7700	0054.4	106.4	24.66
264.0	050.0000	0090.9	043.1	051.6	000.7700	0054.3	106.5	24.63

Figure 2-5

265.0	050.0000	0092.7	043.4	051.2	000.7700	0054.1	106.7	24.60
266.0	050.0000	0093.1	043.5	050.8	000.7700	0054.1	107.0	24.53
267.0	050.0000	0093.2	043.5	050.5	000.7700	0054.0	107.4	24.45
268.0	050.0000	0093.6	043.6	050.2	000.7700	0053.9	107.8	24.38
269.0	050.0000	0094.1	043.7	049.8	000.7700	0053.9	108.2	24.31
270.0	050.0000	0094.2	043.7	049.5	000.7700	0053.8	108.7	24.22
271.0	050.0000	0094.1	043.7	049.2	000.7700	0053.7	109.2	24.12
272.0	050.0000	0093.1	043.5	049.0	000.7700	0053.5	109.8	24.00
273.0	050.0000	0091.5	043.2	048.8	000.7700	0053.4	110.6	23.86
274.0	050.0000	0089.9	042.9	048.6	000.7700	0053.3	111.3	23.72
275.0	050.0000	0089.4	042.8	048.4	000.7700	0053.0	111.9	23.60
276.0	050.0000	0089.6	042.8	048.1	000.7700	0052.8	112.4	23.50
277.0	050.0000	0090.1	042.9	047.8	000.7700	0052.6	112.9	23.40
278.0	050.0000	0090.4	043.0	047.5	000.7700	0052.3	113.4	23.29
279.0	050.0000	0090.5	043.0	047.3	000.7700	0052.0	114.0	23.18
280.0	050.0000	0090.3	043.0	047.1	000.7700	0051.8	114.6	23.06
281.0	050.0000	0089.7	042.9	046.9	000.7700	0051.6	115.2	22.93
282.0	050.0000	0090.5	043.0	046.6	000.7700	0051.4	115.8	22.82
283.0	050.0000	0090.2	043.0	046.4	000.7700	0051.2	116.4	22.70
284.0	050.0000	0090.7	043.1	046.2	000.7700	0051.0	117.0	22.58
285.0	050.0000	0090.6	043.0	046.0	000.7700	0050.8	117.6	22.46
286.0	050.0000	0089.9	042.9	045.8	000.7700	0050.6	118.3	22.32
287.0	050.0000	0090.2	043.0	045.6	000.7700	0050.4	118.9	22.20
288.0	050.0000	0089.5	042.8	045.5	000.7700	0050.2	119.7	22.06
289.0	050.0000	0088.7	042.7	045.4	000.7700	0050.0	120.4	21.92
290.0	050.0000	0088.0	042.5	045.3	000.7700	0049.9	121.1	21.78
291.0	050.0000	0087.1	042.4	045.2	000.7700	0049.8	121.8	21.64
292.0	050.0000	0086.9	042.3	045.1	000.7700	0049.8	122.5	21.51
293.0	050.0000	0086.3	042.2	045.0	000.7700	0049.8	123.3	21.38
294.0	050.0000	0087.3	042.4	044.8	000.7700	0049.7	123.9	21.26
295.0	050.0000	0087.2	042.4	044.7	000.7700	0049.7	124.6	21.14
296.0	050.0000	0087.2	042.4	044.6	000.7700	0049.7	125.3	21.01
297.0	050.0000	0087.9	042.5	044.4	000.7700	0049.7	125.9	20.89
298.0	050.0000	0088.4	042.6	044.3	000.7700	0049.7	126.6	20.76
299.0	050.0000	0089.3	042.8	044.1	000.7700	0049.8	127.3	20.65
300.0	050.0000	0088.7	042.7	044.1	000.7700	0049.8	128.0	20.51
301.0	050.0000	0088.9	042.7	044.0	000.7700	0049.7	128.7	20.37

Figure 3

