```
                          University Of Massachusetts
                       Milford Application - Modified DA Pattern
REFERENCE         CH#  204A  - 88.7 MHz, Pwr= 0.24 kW,  HAAT= 79.0 M,  COR= 269 M     DISPLAY DATES
42 49 46.8 N.              Average Protected F(50-50)= 11.39 km                        DATA    08-21-08
71 43 14.8 W.                    Standard Directional                                 SEARCH  08-21-08
---------------------------------------------------------------------------------------------------------
CH      CALL      TYPE  ANT   AZI     DIST        LAT        PWR(kW) INT(km)  PRO(km)  *IN*      *OUT*
CITY              STATE        <--    FILE #       LNG        HAAT(M) COR(M)   LICENSEE  (Overlap in km)
---------------------------------------------------------------------------------------------------------
204A  1211549     APP DCX    0.0     0.00        42 49 46.8  0.240    37.6    11.0     -48.65*    -48.65*
Milford           NH         0.0     BNPED20071019AUV   71 43 14.8  84      269      University Of Massachusett

204A  1215029     APP NVX   83.4    58.59        42 53 16.0  0.130    20.0    6.0      20.51      -4.11**
Amesbury          MA        263.9    BNPED20071019BEB   71 00 30.0  44      78       Centro Familiar De Adoraci

204A  1225628     APP ZVX   81.7    63.26        42 54 31.7  0.100    28.3    8.6      16.69      -2.38**
Exeter            NH        262.2    BNPED20071015AAP   70 57 14.8  95      124      New Life Media

203B  WFCR        LIC _CN  228.2    77.49        42 21 49.0  13.000   72.2    48.9     0.11       23.42
Amherst           MA         47.7    BLED19970605KB    72 25 24.0  295     478      University Of Massachusett

206B  WEVO        LIC _CN   15.5    44.41        43 12 53.0  50.000   4.4     41.3     29.34      1.68
Concord           NH        195.6    BLED19830307AD    71 34 28.0  116     251      New Hampshire Public Radio

204A  1211514     APP ZVX   81.7    63.26        42 54 32.0  0.100    9.9     3.1      35.21      2.53
Kensington        NH        262.2    BNPED20071015ABW   70 57 15.0  54      80       Allied Communications Netw

06-C  WCSH        LI  D_N   35.2    140.57       43 51 30.0  100.000  16.9    120.8    234.5R     2.9M
Portland          ME        215.9    BLCT19990713KG    70 42 41.0  610     763      Pacific And Southern Compa

202A  WEVS        LIC DEX  114.2    21.62        42 45 00.0  5.000    1.6     14.8     3.64       5.68
Nashua            NH        294.3    BLED20050720ACY   71 28 47.0  21      89       New Hampshire Public Radio

204C2 WRVT        CP  DEX  309.9    145.45       43 39 31.0  4.800    130.1   53.5     5.77       61.34
Rutland           VT        128.9    BPED20070808ADL   73 06 25.0  412     663      Vermont Public Radio

205B1 WERS        LIC _CN  134.1    76.04        42 21 08.0  4.000    49.0    32.6     9.66       23.36
Boston            MA        314.6    BLED19900706KB    71 03 25.0  186     203      Emerson College

204C2 WRVT        LIC DEN  309.9    145.47       43 39 32.0  2.800    118.1   46.9     17.65      67.20
Rutland           VT        128.9    BLED19881215KA    73 06 25.0  405     663      Vermont Public Radio

06+1C WLNE-TV     LI  _CY  162.1    143.80       41 35 48.0  100.000  10.4    103.5    234.5R     29.9M
New Bedford       MA        342.5    BLCT19920604KF    71 11 24.0  283     308      Global Broadcasting Of Sou

06Z1C WRGB        LI  _HN  264.2    187.55       42 38 12.0  93.300   6.4     117.5    234.5R     63.6M
Schenectady       NY         82.6    BLCT2492          73 59 45.0  311     555      Freedom Broadcasting Of Ne

06 1C WRGB        CP  _HN  263.8    188.91       42 37 31.0  4.640    6.4     89.8     234.5R     92.7M
Schenectady       NY         82.3    BPCDT20080307AAK   74 00 38.0  396     653      Freedom Broadcasting Of Ne

06 1E WEDY        CPM _HN  210.8    193.50       41 19 42.0  0.400    3.7     32.1     234.5R     157.8M
New Haven         CT         30.0    BMPEDT20020305AAU  72 54 25.0  88      131      Connecticut Public Broadca

---------------------------------------------------------------------------------------------------------
Terrain database is USGS 03 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference zone = 1, Co to 3rd adjacent.
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.
Reference station has protected zone issue: Canada


  ** Currently MX'd with BNPED-20071019AUV. The instant proposal does not aggrevate this MX or add any additional
     applications to the MX group.
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HOW TO READ THE FM COMPUTER PRINT-OUT

Full Service Stations

The computer printout should be self-explanatory for the most part. The parameters of the station being checked, (reference station) are printed in the heading. Contour distances are in kilometers and are predicted using the Commission's TVFMINT FORTRAN subroutine. When interference contour distances are less than 16 kilometers the F(50-50) tables are used. If signal contour distances are less than 1.6 km the free-space equation is used.

The column listed "IN " is the difference in kilometers between of the reference station's protected contour and the data file station's interference contour at the closest point between the contours. (All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90.) Therefore, "IN" column is a measure of incoming interference. Negative distances in this column indicate the presence of contour overlap. Listed antenna heights and power are those given in the FCC database. The column labeled "OUT " shows the greatest distance in kilometers of overlap or smallest of clearance between the reference station's interference contour and the database station's protected contour. Negative distance figures in this column indicate outgoing contour overlap.

Under the "AZI" column, the first row of numbers indicate the True North bearings from the reference station toward the database stations, while the numbers in the second row indicate the reverse bearings from the database stations to the reference station.

The columns labeled "INT" and "PRO" contain the distance in kilometers of the ap-propriate interference contour and the protected contour of a data base station.

For I.F. relationships, some channel-six TV relationships and relationships with commercial channel stations providing clearance the minimum spacings values the "IN" and "OUT" columns can change their significance. The letter "R" stands for the minimum **required** distance in kilometers, while the letter "M" in the next column follows the **available clear space** (or lack of it) in kilometers. Minimum separation distances when displayed are taken from Sec 73.207 of the rules as amended. Canadian and Mexican separation distances, U/D ratios and protected contour values are from the US/Mexican Working Agreement and the US/Canada Working Agreement".

The call letters of stations meeting the minimum separation distances under the rules will be flagged by the characters "<<" appended to the right-hand side of the call sign. The "^" character appended to the call sign means the station has been "max-classed" according to the provisions of section 73.525 of the Rules.

The first three letters of the "TYPE" column identify the current FCC status of the stations. The fourth letter will be a "D" if the facility is directional. "Z" indicates a 73.215 directional. An "N" indicates it is a 73.215 station that operates with an omni-directional antenna. The fifth letter will be an E, H or V depending on the type of antenna polarization. The sixth letter will be a "Y" if the antenna uses beam tilt or an "X" if the commission is not sure, otherwise it will be an "N" or left blank.

University Of Massachusetts
MilfordNew v. WFCR

FMCommander Single Allocation Study
08-25-2008

1211549   CH 204 A   WFCR   CH 203 B   BLED19970605KB
0.24 kW 269 M COR DA   13.0 kW, 478 M COR
Prot. = 60 dBu   Prot. = 60 dBu
Intef. = 54 dBu   Intef. = 54 dBu
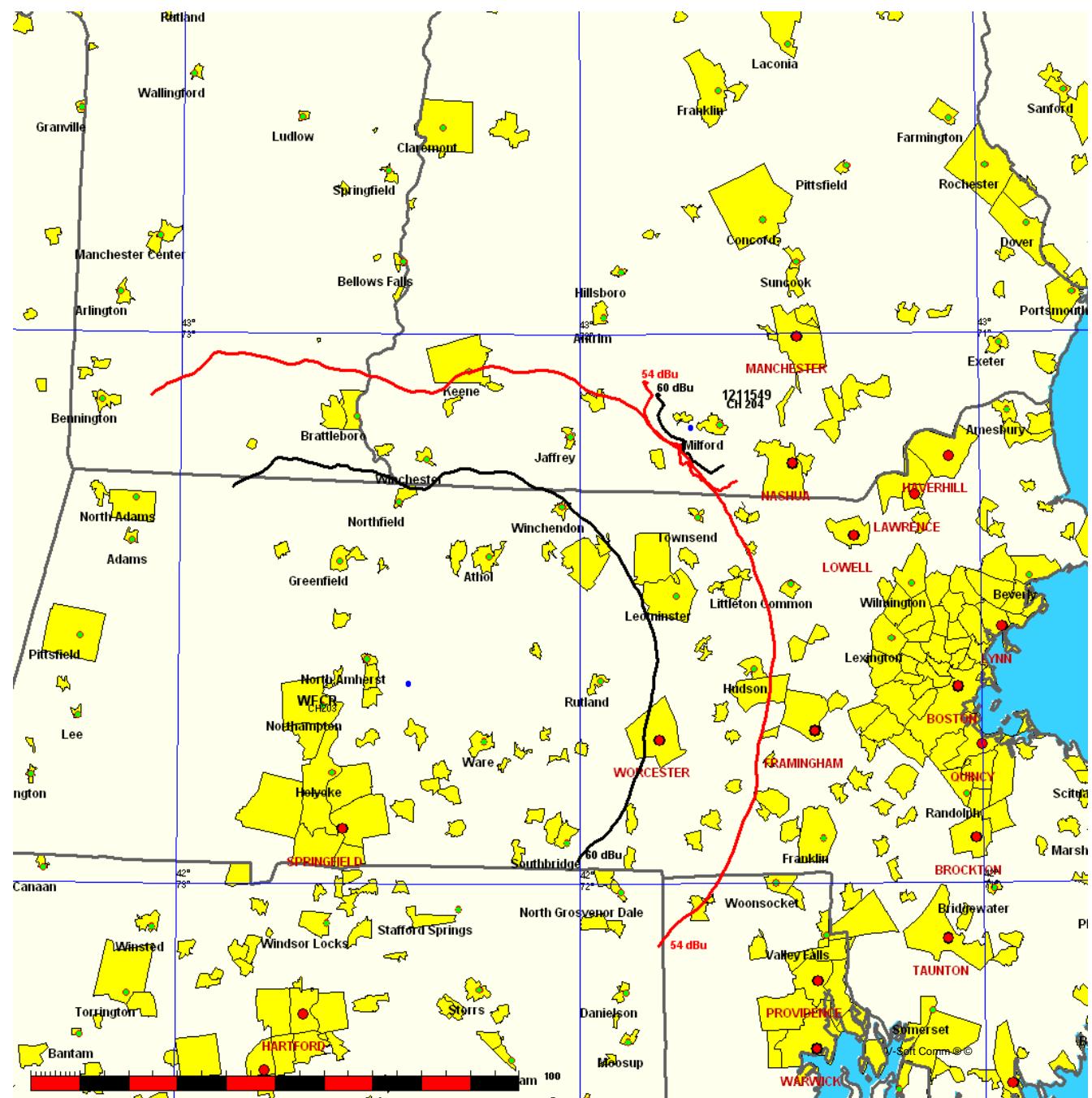
        1211549   WFCR   BLED19970605KB
        Channel =   204A   Channel = 203B
        Max ERP = 0.24 kW   Max ERP = 13 kW
        RCAMSL =   269 M   RCAMSL =   478 M
        N. Lat. 42 49 46.8   N. Lat. 42 21 49.0
        W. Lng. 71 43 14.8   W. Lng. 72 25 24.0
        Protected   Interfering
           60 dBu   54 dBu

Azimuth	ERP	HAAT	Dist	Azimuth	ERP	HAAT	Dist	Actual
(degrees)	(kW)	(m)	(km)	(degrees)	(kW)	(m)	(km)	(dBu)
168.0	000.0158	0135.6	007.5	052.8	013.0000	0256.7	074.0	53.67
169.0	000.0151	0130.5	007.3	052.6	013.0000	0256.6	074.0	53.68
170.0	000.0143	0126.2	007.1	052.4	013.0000	0256.5	074.0	53.68
171.0	000.0137	0125.0	007.0	052.3	013.0000	0256.5	073.9	53.70
172.0	000.0132	0124.7	006.9	052.2	013.0000	0256.5	073.9	53.72
173.0	000.0126	0125.2	006.9	052.1	013.0000	0256.5	073.8	53.75
174.0	000.0121	0127.8	006.9	052.1	013.0000	0256.5	073.7	53.78
175.0	000.0115	0130.4	006.9	052.0	013.0000	0256.5	073.6	53.82
176.0	000.0110	0130.7	006.8	051.9	013.0000	0256.5	073.5	53.84
177.0	000.0105	0128.4	006.7	051.8	013.0000	0256.6	073.5	53.85
178.0	000.0100	0121.4	006.4	051.6	013.0000	0256.7	073.6	53.83
179.0	000.0095	0112.2	006.1	051.4	013.0000	0256.8	073.6	53.81
180.0	000.0090	0104.3	005.8	051.1	013.0000	0256.7	073.7	53.77
181.0	000.0090	0097.8	005.6	051.0	013.0000	0256.6	073.8	53.75
182.0	000.0090	0091.2	005.4	050.8	013.0000	0256.6	073.8	53.73
183.0	000.0090	0086.5	005.3	050.7	013.0000	0256.5	073.9	53.72
184.0	000.0090	0082.7	005.2	050.5	013.0000	0256.4	073.9	53.71
185.0	000.0090	0081.5	005.1	050.5	013.0000	0256.3	073.9	53.72
186.0	000.0090	0082.0	005.1	050.4	013.0000	0256.3	073.8	53.75
187.0	000.0090	0082.0	005.1	050.4	013.0000	0256.2	073.7	53.76
188.0	000.0090	0084.2	005.2	050.4	013.0000	0256.1	073.6	53.80
189.0	000.0090	0088.3	005.3	050.4	013.0000	0256.2	073.4	53.86
190.0	000.0090	0091.1	005.4	050.4	013.0000	0256.2	073.3	53.90
191.0	000.0089	0091.6	005.4	050.3	013.0000	0256.1	073.3	53.91
192.0	000.0088	0090.7	005.4	050.2	013.0000	0256.0	073.2	53.92
193.0	000.0086	0090.5	005.4	050.2	013.0000	0255.9	073.2	53.93
194.0	000.0085	0091.4	005.4	050.1	013.0000	0255.8	073.1	53.95
195.0	000.0084	0091.5	005.3	050.0	013.0000	0255.8	073.1	53.96
196.0	000.0083	0089.6	005.3	049.9	013.0000	0255.6	073.1	53.95
197.0	000.0081	0086.0	005.1	049.8	013.0000	0255.5	073.2	53.93
198.0	000.0080	0078.3	004.9	049.7	013.0000	0255.2	073.3	53.86
199.0	000.0079	0070.8	004.6	049.5	013.0000	0254.9	073.5	53.79
200.0	000.0078	0064.5	004.4	049.4	013.0000	0254.5	073.7	53.73
201.0	000.0078	0059.9	004.2	049.3	013.0000	0254.3	073.8	53.69
202.0	000.0077	0058.1	004.2	049.2	013.0000	0254.1	073.8	53.68
203.0	000.0077	0054.2	004.0	049.1	013.0000	0253.8	073.9	53.63
204.0	000.0077	0050.4	003.9	049.0	013.0000	0253.6	074.0	53.59

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
205.0	000.0077	0044.6	003.6	048.8	013.0000	0253.3	074.2	53.51
206.0	000.0077	0040.5	003.4	048.7	013.0000	0253.1	074.3	53.45
207.0	000.0077	0035.5	003.2	048.6	013.0000	0252.7	074.5	53.38
208.0	000.0076	0029.7	002.9	048.5	013.0000	0252.1	074.7	53.29
209.0	000.0076	0024.4	002.9	048.5	013.0000	0252.0	074.7	53.29
210.0	000.0076	0020.3	002.9	048.5	013.0000	0251.8	074.7	53.29
211.0	000.0078	0016.3	003.0	048.4	013.0000	0251.6	074.7	53.29
212.0	000.0079	0012.3	003.0	048.4	013.0000	0251.5	074.6	53.30
213.0	000.0081	0008.0	003.0	048.3	013.0000	0251.3	074.6	53.30
214.0	000.0083	0002.1	003.0	048.3	013.0000	0251.1	074.6	53.31
215.0	000.0085	-0004.8	003.0	048.3	013.0000	0250.9	074.6	53.31
216.0	000.0087	-0009.2	003.0	048.2	013.0000	0250.7	074.5	53.31
217.0	000.0088	-0010.9	003.1	048.2	013.0000	0250.5	074.5	53.32
218.0	000.0090	-0014.2	003.1	048.2	013.0000	0250.4	074.5	53.32
219.0	000.0092	-0017.2	003.1	048.1	013.0000	0250.2	074.5	53.32
220.0	000.0094	-0018.6	003.1	048.1	013.0000	0250.0	074.4	53.32
221.0	000.0099	-0018.8	003.1	048.1	013.0000	0249.8	074.4	53.33
222.0	000.0104	-0018.3	003.2	048.0	013.0000	0249.6	074.3	53.34
223.0	000.0109	-0013.1	003.2	048.0	013.0000	0249.5	074.3	53.35
224.0	000.0115	-0006.0	003.3	047.9	013.0000	0249.2	074.2	53.36
225.0	000.0120	-0001.8	003.3	047.9	013.0000	0249.0	074.2	53.37
226.0	000.0126	0001.0	003.3	047.8	013.0000	0248.8	074.2	53.37
227.0	000.0131	0003.4	003.4	047.8	013.0000	0248.6	074.1	53.38
228.0	000.0137	0005.9	003.4	047.8	013.0000	0248.4	074.1	53.38
229.0	000.0143	0008.0	003.4	047.7	013.0000	0248.2	074.1	53.39
230.0	000.0149	0010.7	003.5	047.7	013.0000	0248.0	074.0	53.39
231.0	000.0157	0012.4	003.5	047.6	013.0000	0247.8	074.0	53.40
232.0	000.0165	0011.5	003.6	047.6	013.0000	0247.7	073.9	53.41
233.0	000.0173	0011.6	003.6	047.5	013.0000	0247.6	073.9	53.42
234.0	000.0182	0009.6	003.7	047.5	013.0000	0247.4	073.9	53.43
235.0	000.0190	0007.4	003.7	047.4	013.0000	0247.3	073.8	53.43
236.0	000.0199	0004.3	003.7	047.4	013.0000	0247.2	073.8	53.44
237.0	000.0208	0001.7	003.8	047.3	013.0000	0247.0	073.8	53.45
238.0	000.0217	-0000.2	003.8	047.2	013.0000	0246.9	073.7	53.45
239.0	000.0227	-0001.5	003.9	047.2	013.0000	0246.8	073.7	53.46
240.0	000.0236	-0004.9	003.9	047.1	013.0000	0246.6	073.7	53.46
241.0	000.0249	-0008.1	003.9	047.1	013.0000	0246.4	073.7	53.46
242.0	000.0261	-0009.9	004.0	047.0	013.0000	0246.3	073.6	53.47
243.0	000.0274	-0012.2	004.0	046.9	013.0000	0246.1	073.6	53.47
244.0	000.0288	-0015.3	004.1	046.9	013.0000	0246.0	073.6	53.48
245.0	000.0301	-0017.8	004.1	046.8	013.0000	0245.9	073.5	53.48
246.0	000.0315	-0021.7	004.2	046.8	013.0000	0245.8	073.5	53.49
247.0	000.0330	-0025.1	004.2	046.7	013.0000	0245.7	073.5	53.49
248.0	000.0344	-0027.2	004.3	046.6	013.0000	0245.6	073.5	53.49
249.0	000.0359	-0027.3	004.3	046.6	013.0000	0245.6	073.5	53.50
250.0	000.0375	-0028.0	004.4	046.5	013.0000	0245.5	073.5	53.50
251.0	000.0394	-0028.9	004.4	046.4	013.0000	0245.4	073.4	53.50
252.0	000.0414	-0029.9	004.5	046.3	013.0000	0245.4	073.4	53.51
253.0	000.0435	-0029.6	004.5	046.3	013.0000	0245.3	073.4	53.51
254.0	000.0456	-0030.1	004.6	046.2	013.0000	0245.2	073.4	53.51
255.0	000.0478	-0029.9	004.7	046.1	013.0000	0245.2	073.4	53.52

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
256.0	000.0500	-0029.4	004.7	046.0	013.0000	0245.1	073.4	53.52
257.0	000.0523	-0028.5	004.8	046.0	013.0000	0245.1	073.4	53.52
258.0	000.0546	-0027.9	004.8	045.9	013.0000	0245.0	073.4	53.52
259.0	000.0569	-0028.6	004.9	045.8	013.0000	0245.0	073.4	53.52
260.0	000.0594	-0030.3	004.9	045.7	013.0000	0244.9	073.4	53.51
261.0	000.0625	-0033.4	005.0	045.6	013.0000	0244.8	073.4	53.51
262.0	000.0657	-0034.3	005.1	045.6	013.0000	0244.8	073.4	53.51
263.0	000.0689	-0035.3	005.1	045.5	013.0000	0244.7	073.4	53.51
264.0	000.0723	-0035.2	005.2	045.4	013.0000	0244.7	073.4	53.51
265.0	000.0757	-0036.2	005.3	045.3	013.0000	0244.5	073.4	53.50
266.0	000.0792	-0037.4	005.3	045.2	013.0000	0244.4	073.4	53.49
267.0	000.0828	-0038.7	005.4	045.1	013.0000	0244.3	073.4	53.48
268.0	000.0865	-0046.1	005.4	045.0	013.0000	0244.2	073.4	53.47
269.0	000.0903	-0055.6	005.5	045.0	013.0000	0244.2	073.4	53.46
270.0	000.0941	-0058.3	005.5	044.9	013.0000	0244.1	073.5	53.45
271.0	000.0990	-0056.5	005.6	044.8	013.0000	0244.0	073.5	53.44
272.0	000.1041	-0057.5	005.7	044.7	013.0000	0243.9	073.5	53.43
273.0	000.1093	-0056.8	005.8	044.6	013.0000	0243.9	073.5	53.42
274.0	000.1146	-0053.0	005.8	044.5	013.0000	0243.8	073.6	53.41
275.0	000.1200	-0049.8	005.9	044.4	013.0000	0243.8	073.6	53.40
276.0	000.1256	-0044.8	006.0	044.3	013.0000	0243.8	073.6	53.39
277.0	000.1313	-0037.8	006.0	044.2	013.0000	0243.8	073.7	53.37
278.0	000.1371	-0028.6	006.1	044.1	013.0000	0243.8	073.7	53.36
279.0	000.1430	-0025.8	006.2	044.0	013.0000	0243.8	073.8	53.34
280.0	000.1491	-0029.5	006.2	044.0	013.0000	0243.9	073.8	53.33
281.0	000.1569	-0037.5	006.3	043.9	013.0000	0243.9	073.9	53.31
282.0	000.1650	-0047.7	006.4	043.8	013.0000	0243.9	073.9	53.30
283.0	000.1732	-0057.5	006.5	043.7	013.0000	0243.9	074.0	53.28
284.0	000.1816	-0066.9	006.5	043.6	013.0000	0243.9	074.0	53.26
285.0	000.1902	-0076.4	006.6	043.5	013.0000	0244.1	074.1	53.24
286.0	000.1990	-0081.3	006.7	043.4	013.0000	0244.2	074.1	53.23
287.0	000.2081	-0072.8	006.8	043.3	013.0000	0244.4	074.2	53.21
288.0	000.2173	-0058.2	006.8	043.2	013.0000	0244.7	074.3	53.19

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08-25-2008    USGS 03 SEC Terrain Data

WFCR        BLED19970605KB              1211549
Channel = 203B                         Channel =  204A
Max ERP = 13 kW                        Max ERP = 0.24 kW
RCAMSL =   478 M                       RCAMSL =   269 M
N. Lat. 42 21 49.0                     N. Lat. 42 49 46.8
W. Lng. 72 25 24.0                     W. Lng. 71 43 14.8
Protected                              Interfering
    60  dBu                                54  dBu
```

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
348.0	013.0000	0182.2	043.9	262.7	000.0678	-0034.8	067.2	20.74
349.0	013.0000	0179.4	043.6	262.5	000.0673	-0034.5	066.4	20.85
350.0	013.0000	0178.3	043.5	262.5	000.0671	-0034.5	065.6	20.98
351.0	013.0000	0174.9	043.2	262.2	000.0663	-0034.3	064.9	21.06
352.0	013.0000	0169.8	042.7	261.7	000.0648	-0034.3	064.1	21.10
353.0	013.0000	0165.9	042.3	261.3	000.0635	-0034.0	063.4	21.16
354.0	013.0000	0163.6	042.0	261.1	000.0627	-0033.6	062.7	21.24
355.0	013.0000	0160.3	041.7	260.7	000.0614	-0032.6	062.0	21.29
356.0	013.0000	0156.9	041.3	260.2	000.0601	-0031.1	061.3	21.33
357.0	013.0000	0152.3	040.7	259.6	000.0585	-0029.8	060.7	21.34
358.0	013.0000	0148.5	040.2	259.1	000.0572	-0028.7	060.0	21.38
359.0	013.0000	0145.4	039.9	258.6	000.0560	-0028.1	059.4	21.41
000.0	013.0000	0141.9	039.4	258.1	000.0547	-0027.9	058.8	21.44
001.0	013.0000	0140.4	039.2	257.7	000.0540	-0027.9	058.2	21.51
002.0	013.0000	0141.9	039.4	257.8	000.0540	-0027.9	057.5	21.66
003.0	013.0000	0142.0	039.4	257.6	000.0536	-0028.0	056.8	21.77
004.0	013.0000	0141.2	039.3	257.3	000.0529	-0028.1	056.2	21.84
005.0	013.0000	0140.8	039.3	257.0	000.0523	-0028.4	055.5	21.93
006.0	013.0000	0143.8	039.7	257.2	000.0526	-0028.3	054.8	22.12
007.0	013.0000	0148.0	040.2	257.4	000.0533	-0028.1	053.9	22.35
008.0	013.0000	0156.4	041.2	258.2	000.0550	-0027.9	052.9	22.72
009.0	013.0000	0166.7	042.4	259.1	000.0573	-0028.8	051.8	23.13
010.0	013.0000	0173.6	043.1	259.6	000.0584	-0029.7	050.9	23.41
011.0	013.0000	0175.8	043.3	259.5	000.0582	-0029.5	050.1	23.57
012.0	013.0000	0179.5	043.6	259.5	000.0582	-0029.6	049.3	23.75
013.0	013.0000	0185.0	044.1	259.7	000.0586	-0029.8	048.4	23.97
014.0	013.0000	0191.1	044.6	259.8	000.0589	-0030.0	047.5	24.20
015.0	013.0000	0195.2	044.9	259.8	000.0588	-0029.9	046.6	24.38
016.0	013.0000	0196.6	045.0	259.5	000.0581	-0029.4	045.9	24.51
017.0	013.0000	0197.2	045.1	259.1	000.0571	-0028.7	045.1	24.62
018.0	013.0000	0196.6	045.0	258.5	000.0558	-0028.1	044.5	24.69
019.0	013.0000	0195.3	044.9	257.9	000.0543	-0027.9	043.9	24.74
020.0	013.0000	0198.6	045.2	257.6	000.0537	-0028.0	043.1	24.92
021.0	013.0000	0202.8	045.5	257.4	000.0532	-0028.1	042.2	25.12

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
022.0	013.0000	0207.9	045.9	257.2	000.0528	-0028.2	041.3	25.34
023.0	013.0000	0214.3	046.4	257.1	000.0526	-0028.3	040.4	25.61
024.0	013.0000	0219.3	046.8	256.9	000.0520	-0028.6	039.5	25.84
025.0	013.0000	0223.2	047.1	256.5	000.0511	-0029.0	038.7	26.04
026.0	013.0000	0226.1	047.3	255.9	000.0499	-0029.5	037.9	26.19
027.0	013.0000	0227.7	047.4	255.2	000.0483	-0029.7	037.2	26.29
028.0	013.0000	0227.0	047.3	254.3	000.0463	-0030.1	036.6	26.30
029.0	013.0000	0226.6	047.3	253.4	000.0442	-0029.8	036.1	26.30
030.0	013.0000	0225.4	047.2	252.3	000.0420	-0029.9	035.6	26.26
031.0	013.0000	0223.8	047.1	251.1	000.0397	-0029.2	035.1	26.18
032.0	013.0000	0223.2	047.1	250.0	000.0375	-0028.1	034.7	26.10
033.0	013.0000	0225.1	047.2	249.1	000.0361	-0027.4	034.0	26.16
034.0	013.0000	0227.6	047.4	248.1	000.0346	-0027.2	033.4	26.21
035.0	013.0000	0234.4	047.9	247.4	000.0335	-0026.2	032.5	26.41
036.0	013.0000	0238.4	048.2	246.4	000.0321	-0022.9	031.9	26.48
037.0	013.0000	0242.7	048.5	245.3	000.0306	-0018.9	031.2	26.56
038.0	013.0000	0245.0	048.7	244.0	000.0288	-0015.4	030.6	26.54
039.0	013.0000	0246.8	048.8	242.7	000.0270	-0011.4	030.2	26.48
040.0	013.0000	0249.2	049.0	241.3	000.0252	-0008.7	029.7	26.42
041.0	013.0000	0250.2	049.0	239.8	000.0234	-0004.1	029.3	26.28
042.0	013.0000	0248.8	048.9	238.1	000.0218	-0000.3	029.2	26.06
043.0	013.0000	0245.3	048.7	236.4	000.0202	0003.1	029.2	25.71
044.0	013.0000	0243.9	048.6	234.7	000.0188	0008.1	029.1	25.42
045.0	013.0000	0244.2	048.6	233.1	000.0174	0011.6	029.0	25.17
046.0	013.0000	0245.1	048.7	231.4	000.0160	0012.1	028.8	24.90
047.0	013.0000	0246.3	048.7	229.7	000.0147	0010.0	028.7	24.62
048.0	013.0000	0249.6	049.0	228.0	000.0137	0006.0	028.4	24.45
049.0	013.0000	0253.6	049.3	226.3	000.0127	0001.6	028.1	24.26
050.0	013.0000	0255.7	049.4	224.5	000.0117	-0003.6	028.1	23.96
051.0	013.0000	0256.7	049.5	222.7	000.0108	-0014.9	028.1	23.58
052.0	013.0000	0256.5	049.5	221.0	000.0099	-0018.8	028.2	23.12
053.0	013.0000	0256.8	049.5	219.3	000.0093	-0017.8	028.4	22.74
054.0	013.0000	0257.8	049.6	217.6	000.0090	-0012.7	028.6	22.51
055.0	013.0000	0258.3	049.6	215.9	000.0086	-0009.0	028.8	22.23
056.0	013.0000	0258.5	049.6	214.3	000.0084	-0000.2	029.1	21.93
057.0	013.0000	0259.3	049.7	212.7	000.0081	0009.4	029.4	21.63
058.0	013.0000	0262.8	049.9	211.0	000.0078	0016.5	029.5	21.38
059.0	013.0000	0265.5	050.1	209.3	000.0076	0023.1	029.8	21.17
060.0	013.0000	0265.8	050.1	207.9	000.0076	0030.4	030.2	21.07
061.0	013.0000	0266.2	050.2	206.5	000.0077	0038.4	030.7	22.65
062.0	013.0000	0265.9	050.1	205.2	000.0077	0043.6	031.2	23.47
063.0	013.0000	0266.8	050.2	203.8	000.0077	0051.1	031.7	24.63
064.0	013.0000	0266.9	050.2	202.7	000.0077	0055.6	032.3	25.11
065.0	013.0000	0266.1	050.2	201.6	000.0077	0059.1	032.9	25.35
066.0	013.0000	0266.0	050.2	200.5	000.0078	0061.2	033.5	25.36
067.0	013.0000	0269.1	050.4	199.2	000.0079	0068.9	034.0	26.14
068.0	013.0000	0271.5	050.5	198.1	000.0080	0078.0	034.5	27.01
069.0	013.0000	0273.6	050.7	197.0	000.0081	0086.2	035.1	27.70
070.0	013.0000	0274.7	050.8	196.0	000.0083	0089.6	035.8	27.81
071.0	013.0000	0273.3	050.7	195.3	000.0084	0091.0	036.6	27.65
072.0	013.0000	0271.6	050.6	194.7	000.0084	0091.6	037.4	27.38

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
073.0	013.0000	0271.6	050.6	194.0	000.0085	0091.4	038.1	27.08
074.0	013.0000	0273.6	050.7	193.2	000.0086	0090.8	038.8	26.79
075.0	013.0000	0276.3	050.9	192.3	000.0087	0090.4	039.5	26.51
076.0	013.0000	0276.9	050.9	191.7	000.0088	0091.1	040.3	26.30
077.0	013.0000	0278.6	051.0	191.0	000.0089	0091.6	041.1	26.07
078.0	013.0000	0280.1	051.1	190.4	000.0090	0091.3	041.8	25.77
079.0	013.0000	0281.1	051.2	189.9	000.0090	0090.9	042.6	25.43
080.0	013.0000	0281.6	051.3	189.5	000.0090	0089.8	043.5	25.01
081.0	013.0000	0281.9	051.3	189.1	000.0090	0088.5	044.3	24.56
082.0	013.0000	0281.7	051.3	188.7	000.0090	0087.3	045.2	24.13
083.0	013.0000	0281.1	051.2	188.5	000.0090	0086.4	046.0	23.72
084.0	013.0000	0281.7	051.3	188.2	000.0090	0085.0	046.9	23.28
085.0	013.0000	0281.7	051.3	187.9	000.0090	0083.8	047.8	22.86
086.0	013.0000	0278.6	051.0	187.9	000.0090	0083.9	048.7	22.55
087.0	013.0000	0273.8	050.7	188.1	000.0090	0084.8	049.6	22.29
088.0	013.0000	0270.4	050.5	188.2	000.0090	0085.2	050.5	22.00
089.0	013.0000	0269.3	050.4	188.1	000.0090	0084.9	051.4	21.65
090.0	013.0000	0268.7	050.3	188.0	000.0090	0084.4	052.3	21.29
091.0	013.0000	0268.0	050.3	188.0	000.0090	0084.1	053.2	20.95
092.0	013.0000	0266.9	050.2	188.0	000.0090	0084.0	054.0	20.63
093.0	013.0000	0264.6	050.1	188.0	000.0090	0084.5	054.9	20.34
094.0	013.0000	0262.8	049.9	188.1	000.0090	0084.8	055.8	20.05
095.0	013.0000	0262.1	049.9	188.1	000.0090	0084.7	056.7	19.74
096.0	013.0000	0261.0	049.8	188.2	000.0090	0085.0	057.6	19.45
097.0	013.0000	0259.2	049.7	188.3	000.0090	0085.4	058.4	19.18
098.0	013.0000	0257.9	049.6	188.3	000.0090	0085.8	059.3	18.91
099.0	013.0000	0255.6	049.4	188.5	000.0090	0086.5	060.2	18.66
100.0	013.0000	0254.8	049.4	188.6	000.0090	0086.8	061.0	18.40
101.0	013.0000	0255.6	049.4	188.5	000.0090	0086.7	061.9	18.11
102.0	013.0000	0256.5	049.5	188.5	000.0090	0086.6	062.8	17.83
103.0	013.0000	0257.9	049.6	188.5	000.0090	0086.5	063.6	17.56
104.0	013.0000	0261.0	049.8	188.4	000.0090	0086.0	064.5	17.26
105.0	013.0000	0265.6	050.1	188.2	000.0090	0085.1	065.4	16.94
106.0	013.0000	0269.1	050.4	188.1	000.0090	0084.5	066.3	16.65
107.0	013.0000	0272.4	050.6	188.0	000.0090	0084.1	067.2	16.36
108.0	013.0000	0273.2	050.7	188.1	000.0090	0084.5	068.1	16.13

University Of Massachusetts
MilfordNew v. WEVO

FMCommander Single Allocation Study
08-25-2008

1211549   CH 204 A   WEVO   CH 206 B   BLED19830307AD
0.24 kW 269 M COR DA   50.0 kW, 251 M COR
Prot. = 60 dBu   Prot. = 60 dBu
Intef. = 100 dBu   Intef. = 100 dBu
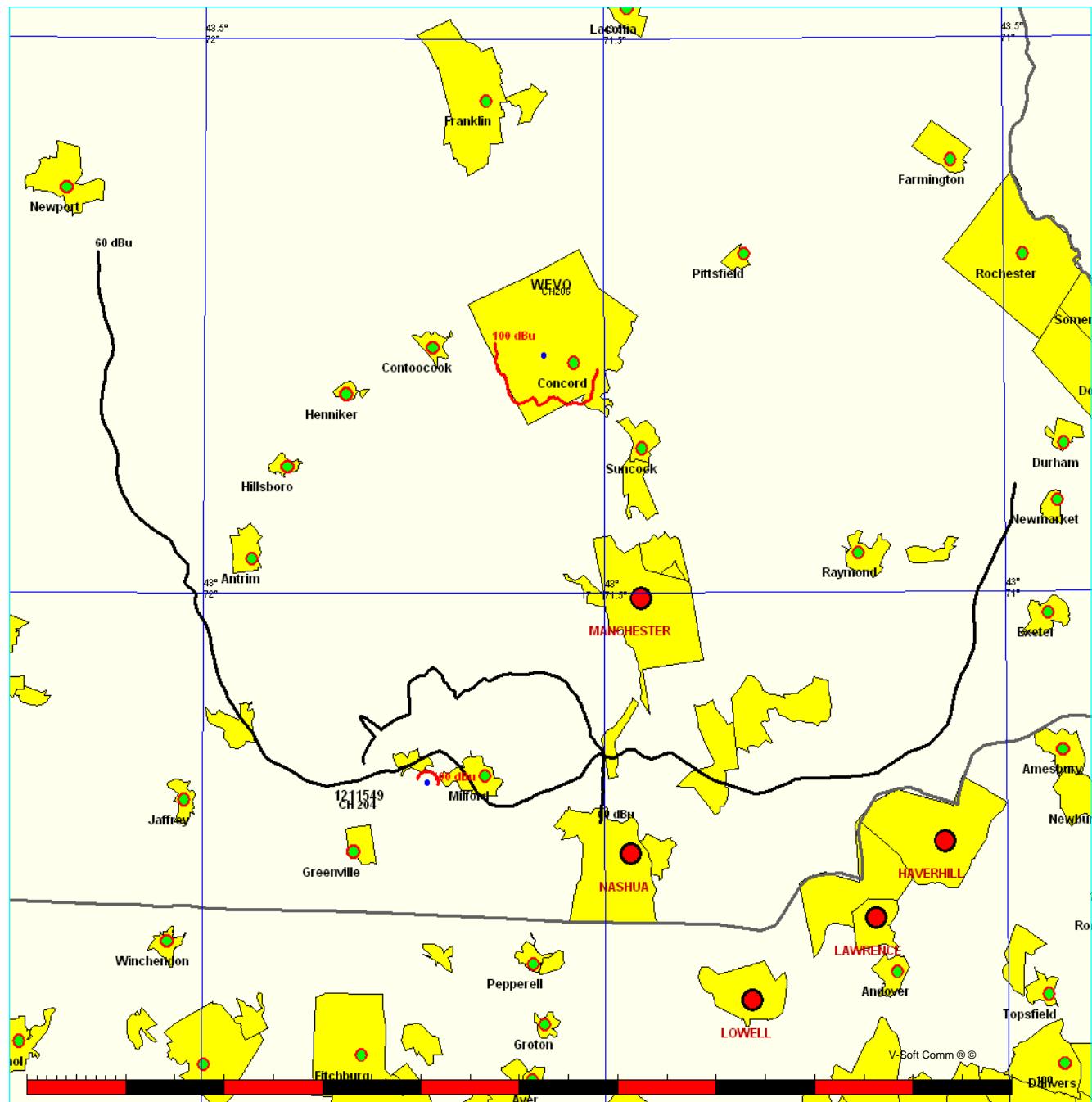
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     1211549                                WEVO        BLED19830307AD
     Channel =   204A                       Channel = 206B
     Max ERP = 0.24 kW                      Max ERP = 50 kW
     RCAMSL =   269 M                       RCAMSL =   251 M
     N. Lat. 42 49 46.8                     N. Lat. 43 12 53.0
     W. Lng. 71 43 14.8                     W. Lng. 71 34 28.0
     Protected                              Interfering
        60  dBu                                100  dBu
```

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
315.0	000.2400	0052.2	009.4	207.2	050.0000	0123.6	040.6	66.15
316.0	000.2400	0047.9	009.0	206.5	050.0000	0121.5	040.6	66.03
317.0	000.2400	0039.6	008.0	205.2	050.0000	0115.5	040.8	65.57
318.0	000.2400	0029.6	007.0	203.9	050.0000	0111.2	041.1	65.16
319.0	000.2400	0018.3	007.0	203.8	050.0000	0111.0	041.0	65.19
320.0	000.2400	0011.0	007.0	203.7	050.0000	0110.6	040.9	65.22
321.0	000.2400	0006.7	007.0	203.6	050.0000	0110.4	040.7	65.24
322.0	000.2400	0002.1	007.0	203.6	050.0000	0110.1	040.6	65.27
323.0	000.2400	-0001.9	007.0	203.5	050.0000	0109.7	040.5	65.29
324.0	000.2400	-0003.3	007.0	203.4	050.0000	0109.3	040.4	65.31
325.0	000.2400	-0008.0	007.0	203.3	050.0000	0108.9	040.3	65.32
326.0	000.2400	-0013.4	007.0	203.2	050.0000	0108.3	040.2	65.32
327.0	000.2400	-0017.5	007.0	203.1	050.0000	0107.7	040.1	65.32
328.0	000.2400	-0019.9	007.0	203.0	050.0000	0107.1	040.0	65.32
329.0	000.2400	-0018.4	007.0	202.9	050.0000	0106.5	039.9	65.31
330.0	000.2400	-0016.1	007.0	202.8	050.0000	0105.9	039.8	65.31
331.0	000.2400	-0014.3	007.0	202.7	050.0000	0105.3	039.7	65.30
332.0	000.2400	-0009.6	007.0	202.6	050.0000	0104.7	039.6	65.30
333.0	000.2400	-0001.6	007.0	202.5	050.0000	0104.2	039.5	65.30
334.0	000.2400	0005.4	007.0	202.3	050.0000	0103.6	039.4	65.29
335.0	000.2400	0008.7	007.0	202.2	050.0000	0103.0	039.3	65.28
336.0	000.2400	0012.1	007.0	202.1	050.0000	0102.5	039.3	65.27
337.0	000.2400	0013.5	007.0	202.0	050.0000	0102.1	039.2	65.28
338.0	000.2400	0015.9	007.0	201.8	050.0000	0101.7	039.1	65.28
339.0	000.2400	0018.8	007.0	201.7	050.0000	0101.2	039.0	65.28
340.0	000.2400	0022.2	007.0	201.6	050.0000	0100.8	038.9	65.28
341.0	000.2400	0024.3	007.0	201.4	050.0000	0100.3	038.8	65.27
342.0	000.2400	0024.9	007.0	201.3	050.0000	0099.9	038.8	65.27
343.0	000.2400	0025.7	007.0	201.2	050.0000	0099.5	038.7	65.27
344.0	000.2400	0027.4	007.0	201.0	050.0000	0099.1	038.6	65.27
345.0	000.2400	0028.4	007.0	200.9	050.0000	0098.8	038.5	65.27
346.0	000.2400	0034.4	007.5	201.1	050.0000	0099.3	038.1	65.50
347.0	000.2400	0041.0	008.2	201.6	050.0000	0100.7	037.4	65.93
348.0	000.2400	0050.1	009.2	202.2	050.0000	0103.1	036.5	66.53
349.0	000.2400	0056.9	009.8	202.6	050.0000	0104.8	035.9	66.96
350.0	000.2400	0061.2	010.2	202.6	050.0000	0105.1	035.5	67.16
351.0	000.2400	0064.7	010.4	202.6	050.0000	0105.0	035.2	67.29

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
352.0	000.2400	0064.7	010.4	202.4	050.0000	0103.7	035.1	67.23
353.0	000.2400	0065.1	010.4	202.1	050.0000	0102.6	035.0	67.19
354.0	000.2400	0066.8	010.6	202.0	050.0000	0102.0	034.8	67.23
355.0	000.2400	0067.8	010.6	201.7	050.0000	0101.3	034.7	67.23
356.0	000.2400	0068.5	010.7	201.5	050.0000	0100.5	034.5	67.22
357.0	000.2400	0068.8	010.7	201.2	050.0000	0099.7	034.4	67.19
358.0	000.2400	0068.6	010.7	200.9	050.0000	0098.9	034.4	67.15
359.0	000.2400	0070.0	010.8	200.7	050.0000	0098.6	034.2	67.20
000.0	000.2400	0073.8	011.0	200.6	050.0000	0098.5	033.9	67.33
001.0	000.2400	0076.3	011.2	200.4	050.0000	0098.5	033.7	67.44
002.0	000.2400	0078.4	011.4	200.1	050.0000	0098.3	033.5	67.51
003.0	000.2400	0080.6	011.5	199.9	050.0000	0097.7	033.3	67.55
004.0	000.2400	0078.5	011.4	199.5	050.0000	0096.4	033.4	67.39
005.0	000.2400	0076.9	011.3	199.1	050.0000	0094.7	033.4	67.21
006.0	000.2400	0074.8	011.1	198.7	050.0000	0093.0	033.5	67.00
007.0	000.2400	0072.9	011.0	198.3	050.0000	0091.6	033.6	66.83
008.0	000.2400	0068.6	010.7	197.9	050.0000	0090.1	033.8	66.56
009.0	000.2400	0062.5	010.3	197.5	050.0000	0088.4	034.2	66.21
010.0	000.2400	0061.0	010.1	197.2	050.0000	0087.0	034.3	66.03
011.0	000.2400	0061.2	010.2	196.9	050.0000	0085.9	034.3	65.92
012.0	000.2400	0059.2	010.0	196.6	050.0000	0084.9	034.4	65.77
013.0	000.2400	0057.1	009.8	196.3	050.0000	0084.1	034.6	65.61
014.0	000.2400	0055.0	009.7	196.0	050.0000	0083.2	034.8	65.44
015.0	000.2400	0053.8	009.5	195.7	050.0000	0082.2	034.9	65.28
016.0	000.2400	0054.1	009.6	195.4	050.0000	0081.5	034.8	65.21
017.0	000.2400	0052.1	009.4	195.2	050.0000	0081.0	035.0	65.07
018.0	000.2400	0049.4	009.1	194.9	050.0000	0080.6	035.3	64.92
019.0	000.2400	0047.8	008.9	194.7	050.0000	0080.5	035.5	64.82
020.0	000.2400	0047.3	008.9	194.5	050.0000	0080.5	035.6	64.79
021.0	000.2400	0052.0	009.4	194.1	050.0000	0080.8	035.1	65.02
022.0	000.2400	0056.8	009.8	193.7	050.0000	0081.5	034.7	65.29
023.0	000.2400	0059.3	010.0	193.4	050.0000	0082.2	034.5	65.44
024.0	000.2400	0060.5	010.1	193.1	050.0000	0082.9	034.4	65.54
025.0	000.2400	0062.5	010.3	192.8	050.0000	0083.7	034.3	65.68
026.0	000.2400	0066.5	010.5	192.3	050.0000	0084.5	034.1	65.87
027.0	000.2400	0072.8	011.0	191.9	050.0000	0085.5	033.7	66.14
028.0	000.2400	0080.2	011.5	191.3	050.0000	0087.5	033.3	66.54
029.0	000.2400	0085.8	011.8	190.8	050.0000	0089.3	033.0	66.87
030.0	000.2400	0087.2	011.9	190.4	050.0000	0090.7	033.0	67.01
031.0	000.2400	0086.5	011.9	190.1	050.0000	0091.9	033.1	67.08
032.0	000.2400	0088.6	012.0	189.7	050.0000	0093.9	033.1	67.29
033.0	000.2400	0094.3	012.4	189.1	050.0000	0096.6	032.8	67.67
034.0	000.2400	0101.1	012.8	188.4	050.0000	0098.9	032.5	68.03
035.0	000.2400	0106.1	013.1	187.8	050.0000	0101.0	032.3	68.30
036.0	000.2400	0110.1	013.4	187.2	050.0000	0102.8	032.2	68.51
037.0	000.2400	0114.0	013.6	186.7	050.0000	0103.8	032.2	68.64
038.0	000.2400	0117.8	013.8	186.1	050.0000	0104.0	032.1	68.68
039.0	000.2400	0120.6	014.0	185.6	050.0000	0103.9	032.1	68.67
040.0	000.2400	0123.2	014.1	185.1	050.0000	0103.8	032.1	68.66
041.0	000.2400	0127.3	014.3	184.5	050.0000	0103.7	032.1	68.67
042.0	000.2400	0130.8	014.5	183.9	050.0000	0103.3	032.1	68.64

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
043.0	000.2400	0135.7	014.8	183.2	050.0000	0101.7	032.0	68.53
044.0	000.2400	0141.4	015.2	182.5	050.0000	0099.0	031.9	68.33
045.0	000.2400	0146.8	015.5	181.7	050.0000	0097.5	031.8	68.23
046.0	000.2400	0152.1	015.8	180.9	050.0000	0095.9	031.8	68.10
047.0	000.2400	0156.0	016.1	180.3	050.0000	0094.6	031.8	67.96
048.0	000.2400	0158.5	016.2	179.7	050.0000	0094.4	031.9	67.89
049.0	000.2400	0161.3	016.4	179.1	050.0000	0093.7	032.0	67.78
050.0	000.2400	0164.9	016.6	178.5	050.0000	0092.4	032.1	67.60
051.0	000.2400	0169.4	016.9	177.8	050.0000	0091.1	032.2	67.44
052.0	000.2400	0172.0	017.0	177.3	050.0000	0090.5	032.3	67.30
053.0	000.2400	0174.3	017.2	176.9	050.0000	0090.1	032.5	67.17
054.0	000.2400	0176.1	017.2	176.4	050.0000	0089.7	032.7	67.04
055.0	000.2400	0177.5	017.3	176.1	050.0000	0089.0	032.9	66.88
056.0	000.2400	0177.3	017.3	175.8	050.0000	0088.3	033.2	66.67
057.0	000.2400	0177.1	017.3	175.6	050.0000	0087.7	033.5	66.50
058.0	000.2400	0177.3	017.3	175.3	050.0000	0087.7	033.7	66.37
059.0	000.2400	0178.9	017.4	175.0	050.0000	0087.2	034.0	66.21
060.0	000.2400	0180.6	017.5	174.6	050.0000	0085.8	034.2	65.96
061.0	000.2400	0180.9	017.5	174.4	050.0000	0084.5	034.5	65.70
062.0	000.2400	0180.4	017.5	174.2	050.0000	0083.5	034.8	65.47
063.0	000.2400	0180.0	017.4	174.1	050.0000	0082.7	035.0	65.25
064.0	000.2400	0179.8	017.4	173.9	050.0000	0081.9	035.3	65.04
065.0	000.2400	0178.9	017.4	173.8	050.0000	0081.4	035.6	64.85
066.0	000.2400	0178.2	017.4	173.7	050.0000	0081.0	035.9	64.68
067.0	000.2400	0177.5	017.3	173.6	050.0000	0080.6	036.2	64.51
068.0	000.2400	0178.1	017.3	173.5	050.0000	0080.0	036.5	64.32
069.0	000.2400	0179.0	017.4	173.3	050.0000	0079.4	036.8	64.13
070.0	000.2400	0179.0	017.4	173.2	050.0000	0079.0	037.1	63.97
071.0	000.2400	0179.4	017.4	173.0	050.0000	0078.7	037.4	63.81
072.0	000.2400	0178.8	017.4	173.0	050.0000	0078.5	037.7	63.67
073.0	000.2400	0177.4	017.3	173.0	050.0000	0078.6	038.0	63.54
074.0	000.2400	0175.9	017.2	173.0	050.0000	0078.7	038.3	63.43
075.0	000.2400	0177.6	017.3	172.8	050.0000	0078.2	038.6	63.25

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08-25-2008   USGS 03 SEC Terrain Data

WEVO        BLED19830307AD                1211549
Channel = 206B                            Channel =  204A
Max ERP = 50 kW                           Max ERP = 0.24 kW
RCAMSL =  251 M                           RCAMSL =  269 M
N. Lat. 43 12 53.0                        N. Lat. 42 49 46.8
W. Lng. 71 34 28.0                        W. Lng. 71 43 14.8
Protected                                 Interfering
   60  dBu                                   100  dBu


 Azimuth     ERP    HAAT    Dist  | Azimuth     ERP    HAAT    Dist   Actual
(degrees)   (kW)    (m)     (km)  |(degrees)   (kW)    (m)     (km)   (dBu)
----------------------------------|------------------------------------------
136.0  050.0000  0172.1  054.8  | 086.0  000.2400  0189.4  050.3  42.33
137.0  050.0000  0167.7  054.4  | 086.3  000.2400  0189.2  049.1  42.77
138.0  050.0000  0166.6  054.2  | 086.9  000.2400  0189.1  048.3  43.08
139.0  050.0000  0165.2  054.1  | 087.4  000.2400  0189.2  047.5  43.41
140.0  050.0000  0163.6  053.9  | 088.0  000.2400  0188.9  046.6  43.74
141.0  050.0000  0162.7  053.8  | 088.6  000.2400  0188.5  045.8  44.05
142.0  050.0000  0159.5  053.4  | 088.9  000.2400  0188.1  044.9  44.44
143.0  050.0000  0154.2  052.7  | 089.0  000.2400  0188.0  043.7  44.92
144.0  050.0000  0150.0  052.2  | 089.1  000.2400  0187.9  042.6  45.38
145.0  050.0000  0145.7  051.6  | 089.1  000.2400  0187.7  041.6  45.86
146.0  050.0000  0142.0  051.1  | 089.3  000.2400  0187.5  040.5  46.33
147.0  050.0000  0137.7  050.5  | 089.2  000.2400  0187.6  039.5  46.83
148.0  050.0000  0134.3  050.0  | 089.3  000.2400  0187.4  038.5  47.30
149.0  050.0000  0131.3  049.6  | 089.4  000.2400  0187.2  037.5  47.76
150.0  050.0000  0130.5  049.5  | 090.0  000.2400  0186.9  036.7  48.15
151.0  050.0000  0130.1  049.4  | 090.6  000.2400  0187.2  035.9  48.55
152.0  050.0000  0129.4  049.3  | 091.1  000.2400  0187.6  035.1  48.97
153.0  050.0000  0128.3  049.2  | 091.6  000.2400  0188.0  034.3  49.42
154.0  050.0000  0126.4  048.9  | 091.9  000.2400  0188.2  033.4  49.89
155.0  050.0000  0120.8  048.1  | 091.3  000.2400  0187.7  032.3  50.46
156.0  050.0000  0115.6  047.3  | 090.7  000.2400  0187.3  031.2  51.03
157.0  050.0000  0111.1  046.6  | 090.1  000.2400  0187.0  030.2  51.61
158.0  050.0000  0106.6  045.9  | 089.4  000.2400  0187.2  029.2  52.24
159.0  050.0000  0100.9  044.9  | 088.1  000.2400  0188.8  028.1  52.99
160.0  050.0000  0095.0  043.9  | 086.6  000.2400  0189.1  027.0  53.71
161.0  050.0000  0089.3  042.8  | 084.8  000.2400  0190.6  026.0  54.46
162.0  050.0000  0084.9  041.9  | 083.2  000.2400  0192.6  025.1  55.19
163.0  050.0000  0084.0  041.8  | 083.2  000.2400  0192.7  024.3  55.73
164.0  050.0000  0084.6  041.9  | 083.7  000.2400  0192.1  023.6  56.21
165.0  050.0000  0084.9  041.9  | 084.2  000.2400  0191.4  022.9  56.71
166.0  050.0000  0082.1  041.4  | 083.1  000.2400  0192.7  022.1  57.38
167.0  050.0000  0078.2  040.6  | 081.2  000.2400  0194.5  021.3  58.07
168.0  050.0000  0077.3  040.4  | 080.7  000.2400  0194.8  020.6  58.65
169.0  050.0000  0079.0  040.7  | 081.9  000.2400  0193.5  019.9  59.13
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Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
170.0	050.0000	0080.3	041.0	082.8	000.2400	0192.8	019.2	59.66
171.0	050.0000	0079.2	040.8	082.1	000.2400	0193.3	018.5	60.27
172.0	050.0000	0077.0	040.3	080.7	000.2400	0194.8	017.8	60.92
173.0	050.0000	0078.6	040.6	081.7	000.2400	0193.7	017.1	61.46
174.0	050.0000	0082.2	041.4	084.3	000.2400	0191.2	016.4	61.95
175.0	050.0000	0087.3	042.4	088.0	000.2400	0188.8	015.7	62.43
176.0	050.0000	0088.9	042.7	089.3	000.2400	0187.5	014.9	62.79
177.0	050.0000	0090.2	043.0	090.5	000.2400	0187.1	014.2	63.64
178.0	050.0000	0091.4	043.2	091.6	000.2400	0188.0	013.5	64.62
179.0	050.0000	0093.5	043.6	093.5	000.2400	0189.5	012.8	65.68
180.0	050.0000	0094.5	043.8	094.7	000.2400	0189.6	012.0	66.78
181.0	050.0000	0096.1	044.1	096.5	000.2400	0189.6	011.3	67.94
182.0	050.0000	0098.2	044.4	098.9	000.2400	0190.2	010.5	69.16
183.0	050.0000	0100.7	044.9	102.0	000.2400	0192.8	009.8	70.51
184.0	050.0000	0103.4	045.3	105.6	000.2400	0190.6	009.1	71.66
185.0	050.0000	0103.7	045.4	107.0	000.2400	0185.9	008.4	72.89
186.0	050.0000	0104.0	045.4	108.6	000.2400	0179.8	007.6	74.17
187.0	050.0000	0103.4	045.3	109.1	000.2385	0177.8	006.8	75.91
188.0	050.0000	0100.3	044.8	105.6	000.2400	0190.7	005.9	78.67
189.0	050.0000	0096.8	044.2	099.8	000.2400	0190.4	005.1	80.96
190.0	050.0000	0092.3	043.4	089.0	000.2400	0188.0	004.4	82.96
191.0	050.0000	0088.5	042.6	076.5	000.2400	0180.9	003.9	84.46
192.0	050.0000	0085.1	042.0	062.0	000.2400	0180.4	003.7	85.43
193.0	050.0000	0083.1	041.6	048.9	000.2400	0161.0	003.5	85.53
194.0	050.0000	0080.9	041.1	035.0	000.2400	0106.2	003.5	82.66
195.0	050.0000	0080.7	041.1	023.2	000.2400	0059.6	003.4	78.86
196.0	050.0000	0083.3	041.6	010.0	000.2400	0061.0	002.8	82.01
197.0	050.0000	0086.2	042.2	351.3	000.2400	0065.2	002.5	85.02
198.0	050.0000	0090.4	043.0	324.9	000.2400	-0007.2	002.3	79.65
199.0	050.0000	0094.2	043.7	302.5	000.2400	-0029.1	002.7	76.68
200.0	050.0000	0098.0	044.4	288.0	000.2175	-0057.9	003.4	72.06
201.0	050.0000	0099.0	044.6	286.1	000.1999	-0081.2	004.2	68.02
202.0	050.0000	0102.1	045.1	280.8	000.1550	-0035.0	005.0	63.82
203.0	050.0000	0107.1	046.0	274.4	000.1168	-0051.2	006.0	59.53
204.0	050.0000	0111.8	046.7	270.7	000.0976	-0056.8	007.0	56.02
205.0	050.0000	0114.8	047.2	270.0	000.0940	-0058.3	008.0	53.74
206.0	050.0000	0119.1	047.8	268.6	000.0886	-0051.6	009.0	51.53
207.0	050.0000	0123.3	048.5	267.8	000.0856	-0043.5	010.0	49.53
208.0	050.0000	0125.3	048.7	268.7	000.0891	-0052.9	010.9	48.22
209.0	050.0000	0126.8	049.0	269.9	000.0935	-0058.3	011.8	47.06
210.0	050.0000	0127.1	049.0	271.6	000.1023	-0057.1	012.5	46.29
211.0	050.0000	0126.8	049.0	273.5	000.1122	-0055.2	013.3	45.65
212.0	050.0000	0127.0	049.0	275.1	000.1207	-0049.4	014.0	44.96
213.0	050.0000	0127.6	049.1	276.4	000.1277	-0042.4	014.8	44.24
214.0	050.0000	0128.7	049.2	277.3	000.1330	-0035.3	015.7	43.67
215.0	050.0000	0128.7	049.2	278.6	000.1409	-0025.5	016.5	43.26
216.0	050.0000	0126.2	048.9	281.1	000.1574	-0038.1	017.1	43.22
217.0	050.0000	0123.2	048.4	283.5	000.1773	-0062.5	017.7	43.24
218.0	050.0000	0120.8	048.1	285.6	000.1952	-0080.5	018.3	43.12
219.0	050.0000	0119.5	047.9	287.1	000.2087	-0071.7	019.0	42.84
220.0	050.0000	0118.3	047.7	288.5	000.2219	-0051.2	019.7	42.53

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
221.0	050.0000	0116.6	047.5	290.1	000.2366	-0034.9	020.4	42.27
222.0	050.0000	0115.2	047.3	291.4	000.2400	-0032.9	021.1	41.79
223.0	050.0000	0113.6	047.0	292.8	000.2400	-0033.1	021.8	41.27
224.0	050.0000	0111.7	046.7	294.3	000.2400	-0031.5	022.4	40.77
225.0	050.0000	0109.8	046.4	295.7	000.2400	-0038.6	023.1	40.28
226.0	050.0000	0107.7	046.1	297.1	000.2400	-0049.6	023.8	39.82
227.0	050.0000	0105.3	045.7	298.6	000.2400	-0052.5	024.4	39.38
228.0	050.0000	0102.7	045.2	300.2	000.2400	-0048.0	025.0	38.96
229.0	050.0000	0099.8	044.7	301.9	000.2400	-0035.5	025.6	38.57
230.0	050.0000	0096.7	044.2	303.5	000.2400	-0019.9	026.2	38.19
231.0	050.0000	0094.9	043.8	304.7	000.2400	-0008.6	026.8	37.80
232.0	050.0000	0093.8	043.6	305.5	000.2400	-0002.5	027.5	37.39
233.0	050.0000	0093.4	043.6	306.1	000.2400	0001.0	028.2	36.99
234.0	050.0000	0093.1	043.5	306.7	000.2400	0004.7	028.9	36.60
235.0	050.0000	0091.6	043.2	307.7	000.2400	0012.0	029.6	36.27
236.0	050.0000	0088.7	042.7	309.1	000.2400	0021.5	030.1	36.00
237.0	050.0000	0089.7	042.9	309.2	000.2400	0022.2	030.9	35.64
238.0	050.0000	0090.3	043.0	309.4	000.2400	0023.7	031.6	35.32
239.0	050.0000	0086.5	042.3	311.1	000.2400	0034.9	032.1	36.22
240.0	050.0000	0083.8	041.7	312.4	000.2400	0046.6	032.6	38.36
241.0	050.0000	0085.0	041.9	312.4	000.2400	0046.9	033.4	38.09
242.0	050.0000	0086.9	042.3	312.2	000.2400	0045.5	034.2	37.50
243.0	050.0000	0086.4	042.2	312.8	000.2400	0049.5	034.9	37.95
244.0	050.0000	0086.6	042.3	313.2	000.2400	0051.4	035.6	37.98
245.0	050.0000	0089.0	042.7	312.9	000.2400	0050.1	036.4	37.43
246.0	050.0000	0091.6	043.2	312.7	000.2400	0048.6	037.3	36.84
247.0	050.0000	0094.1	043.7	312.5	000.2400	0047.4	038.2	36.29
248.0	050.0000	0096.7	044.2	312.4	000.2400	0046.5	039.1	35.80
249.0	050.0000	0098.6	044.5	312.4	000.2400	0046.9	040.0	35.57
250.0	050.0000	0099.7	044.7	312.7	000.2400	0048.6	040.7	35.58
251.0	050.0000	0100.0	044.8	313.1	000.2400	0051.2	041.4	35.73
252.0	050.0000	0101.5	045.0	313.3	000.2400	0052.3	042.3	35.61
253.0	050.0000	0102.0	045.1	313.7	000.2400	0053.8	043.0	35.58
254.0	050.0000	0101.6	045.0	314.3	000.2400	0053.9	043.6	35.37
255.0	050.0000	0100.8	044.9	315.0	000.2400	0052.3	044.3	34.94
256.0	050.0000	0099.4	044.6	315.8	000.2400	0049.1	044.8	34.29

University Of Massachusetts
MilfordNew v. 1211514

FMCommander Single Allocation Study
08-25-2008

1211549 CH 204 A	1211514 CH 204 A BNPED20071015ABW
0.24 kW 269 M COR DA	0.1 kW, 80 M COR DA
Prot. = 60 dBu	Prot. = 60 dBu
Intef. = 40 dBu	Intef. = 40 dBu
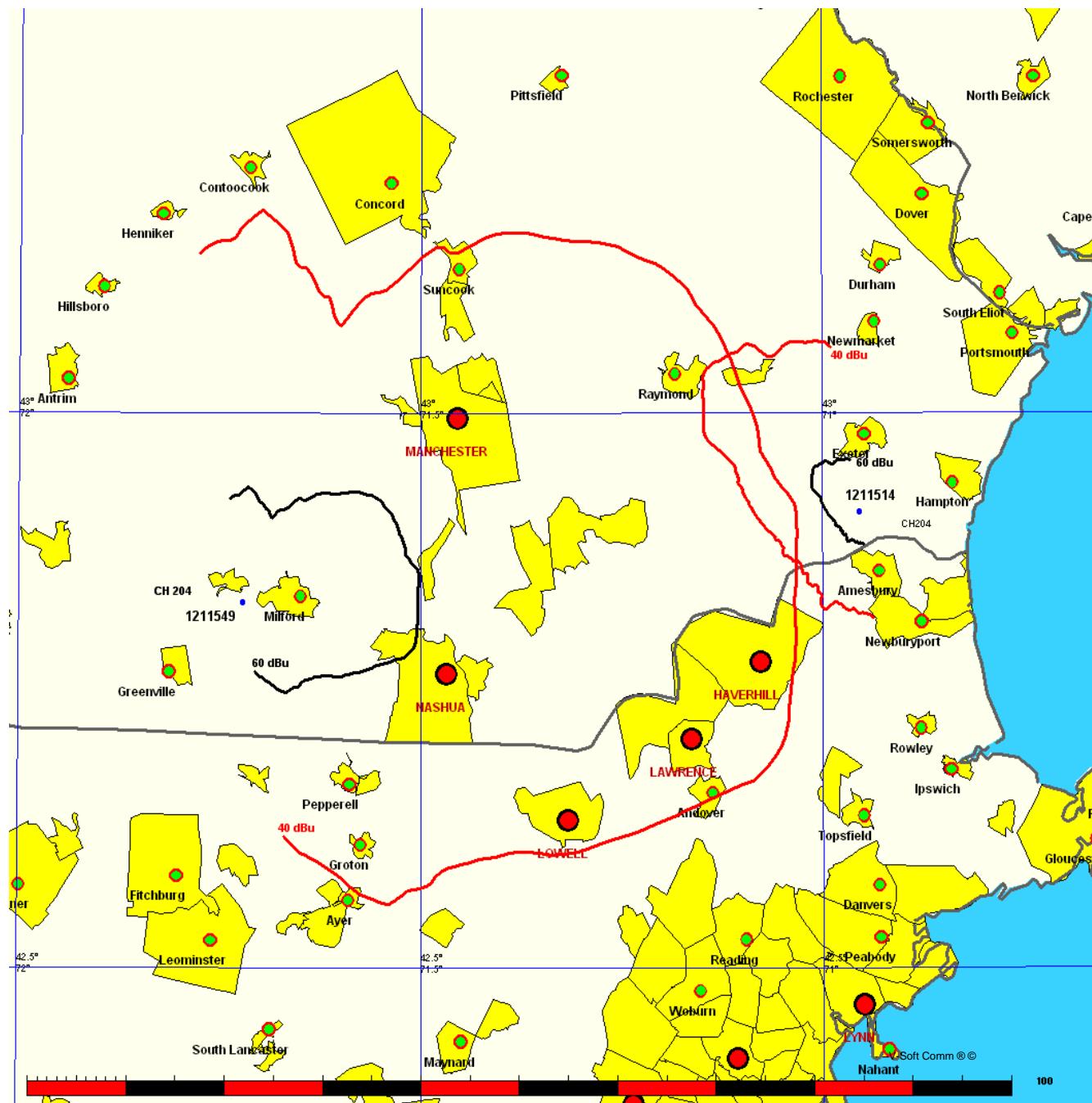
```
     1211549                              1211514    BNPED20071015ABW
     Channel =  204A                      Channel = 204A
     Max ERP = 0.24 kW                    Max ERP = 0.1 kW
     RCAMSL =  269 M                      RCAMSL =  80 M
     N. Lat. 42 49 46.8                   N. Lat. 42 54 32.0
     W. Lng. 71 43 14.8                   W. Lng. 70 57 15.0
     Protected                            Interfering
        60  dBu                              40  dBu
```

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
022.0	000.2400	0056.8	009.8	270.5	000.0132	0029.1	058.9	15.24
023.0	000.2400	0059.3	010.0	270.7	000.0133	0029.2	058.7	15.31
024.0	000.2400	0060.5	010.1	270.7	000.0133	0029.2	058.5	15.35
025.0	000.2400	0062.5	010.3	270.7	000.0133	0029.3	058.3	15.41
026.0	000.2400	0066.5	010.5	270.9	000.0134	0029.4	058.0	15.51
027.0	000.2400	0072.8	011.0	271.2	000.0136	0029.6	057.6	15.64
028.0	000.2400	0080.2	011.5	271.6	000.0138	0029.7	057.2	15.79
029.0	000.2400	0085.8	011.8	271.8	000.0140	0029.8	056.9	15.91
030.0	000.2400	0087.2	011.9	271.8	000.0140	0029.8	056.7	15.95
031.0	000.2400	0086.5	011.9	271.6	000.0139	0029.8	056.5	15.96
032.0	000.2400	0088.6	012.0	271.7	000.0139	0029.8	056.2	16.02
033.0	000.2400	0094.3	012.4	271.9	000.0140	0029.9	055.9	16.13
034.0	000.2400	0101.1	012.8	272.1	000.0142	0030.0	055.5	16.27
035.0	000.2400	0106.1	013.1	272.3	000.0142	0030.0	055.1	16.38
036.0	000.2400	0110.1	013.4	272.3	000.0143	0030.0	054.8	16.46
037.0	000.2400	0114.0	013.6	272.4	000.0143	0030.1	054.5	16.54
038.0	000.2400	0117.8	013.8	272.4	000.0144	0030.1	054.1	16.62
039.0	000.2400	0120.6	014.0	272.4	000.0143	0030.1	053.9	16.68
040.0	000.2400	0123.2	014.1	272.4	000.0143	0030.0	053.6	16.73
041.0	000.2400	0127.3	014.3	272.4	000.0143	0030.1	053.2	16.81
042.0	000.2400	0130.8	014.5	272.4	000.0143	0030.1	052.9	16.88
043.0	000.2400	0135.7	014.8	272.5	000.0144	0030.1	052.5	16.98
044.0	000.2400	0141.4	015.2	272.6	000.0144	0030.1	052.1	17.09
045.0	000.2400	0146.8	015.5	272.6	000.0145	0030.0	051.7	17.19
046.0	000.2400	0152.1	015.8	272.7	000.0145	0030.0	051.2	17.29
047.0	000.2400	0156.0	016.1	272.7	000.0145	0030.0	050.9	17.37
048.0	000.2400	0158.5	016.2	272.6	000.0144	0030.0	050.6	17.42
049.0	000.2400	0161.3	016.4	272.5	000.0144	0030.1	050.2	17.48
050.0	000.2400	0164.9	016.6	272.4	000.0143	0030.1	049.9	17.54
051.0	000.2400	0169.4	016.9	272.3	000.0143	0030.0	049.5	17.61
052.0	000.2400	0172.0	017.0	272.2	000.0142	0030.0	049.2	17.64
053.0	000.2400	0174.3	017.2	272.0	000.0141	0029.9	048.9	17.66
054.0	000.2400	0176.1	017.2	271.8	000.0140	0029.8	048.7	17.68
055.0	000.2400	0177.5	017.3	271.5	000.0138	0029.7	048.4	17.68
056.0	000.2400	0177.3	017.3	271.2	000.0136	0029.6	048.3	17.66
057.0	000.2400	0177.1	017.3	270.9	000.0134	0029.4	048.1	17.64
058.0	000.2400	0177.3	017.3	270.6	000.0133	0029.2	047.9	17.62

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
059.0	000.2400	0178.9	017.4	270.4	000.0131	0029.0	047.7	17.62
060.0	000.2400	0180.6	017.5	270.1	000.0130	0028.8	047.5	17.62
061.0	000.2400	0180.9	017.5	269.8	000.0128	0028.5	047.3	17.59
062.0	000.2400	0180.4	017.5	269.5	000.0126	0028.3	047.2	17.55
063.0	000.2400	0180.0	017.4	269.1	000.0124	0028.1	047.1	17.51
064.0	000.2400	0179.8	017.4	268.8	000.0122	0027.9	047.0	17.46
065.0	000.2400	0178.9	017.4	268.4	000.0120	0027.8	046.9	17.41
066.0	000.2400	0178.2	017.4	268.1	000.0118	0027.7	046.8	17.36
067.0	000.2400	0177.5	017.3	267.7	000.0116	0027.6	046.7	17.30
068.0	000.2400	0178.1	017.3	267.4	000.0114	0027.6	046.6	17.26
069.0	000.2400	0179.0	017.4	267.0	000.0112	0027.6	046.5	17.22
070.0	000.2400	0179.0	017.4	266.7	000.0110	0027.6	046.4	17.16
071.0	000.2400	0179.4	017.4	266.3	000.0108	0027.8	046.3	17.11
072.0	000.2400	0178.8	017.4	265.9	000.0106	0028.0	046.2	17.04
073.0	000.2400	0177.4	017.3	265.5	000.0104	0028.2	046.2	16.95
074.0	000.2400	0175.9	017.2	265.1	000.0102	0028.3	046.2	16.86
075.0	000.2400	0177.6	017.3	264.8	000.0100	0028.5	046.1	16.83
076.0	000.2400	0179.9	017.4	264.4	000.0099	0028.6	045.9	16.80
077.0	000.2400	0182.0	017.5	264.1	000.0097	0028.5	045.8	16.77
078.0	000.2400	0186.0	017.7	263.7	000.0096	0028.2	045.6	16.76
079.0	000.2400	0190.3	017.9	263.3	000.0094	0028.0	045.4	16.75
080.0	000.2400	0194.1	018.1	263.0	000.0093	0027.7	045.2	16.72
081.0	000.2400	0194.7	018.1	262.6	000.0091	0027.3	045.1	16.66
082.0	000.2400	0193.4	018.0	262.2	000.0090	0027.0	045.2	16.57
083.0	000.2400	0192.7	018.0	261.8	000.0088	0026.7	045.2	16.48
084.0	000.2400	0191.7	018.0	261.4	000.0087	0026.4	045.3	16.39
085.0	000.2400	0190.3	017.9	261.0	000.0085	0026.2	045.4	16.30
086.0	000.2400	0189.4	017.9	260.6	000.0084	0026.1	045.5	16.20
087.0	000.2400	0189.1	017.9	260.2	000.0082	0026.1	045.5	16.12
088.0	000.2400	0188.8	017.8	259.8	000.0081	0026.2	045.6	16.03
089.0	000.2400	0188.0	017.8	259.4	000.0079	0026.3	045.6	15.93
090.0	000.2400	0186.9	017.8	259.1	000.0078	0026.4	045.7	15.83
091.0	000.2400	0187.5	017.8	258.7	000.0077	0026.5	045.8	15.74
092.0	000.2400	0188.3	017.8	258.3	000.0075	0026.7	045.8	15.65
093.0	000.2400	0189.3	017.9	257.9	000.0074	0026.9	045.9	15.56
094.0	000.2400	0189.5	017.9	257.5	000.0073	0027.0	045.9	15.46
095.0	000.2400	0189.7	017.9	257.1	000.0071	0027.1	046.0	15.36
096.0	000.2400	0190.0	017.9	256.8	000.0070	0027.2	046.1	15.26
097.0	000.2400	0189.6	017.9	256.4	000.0069	0027.1	046.2	15.15
098.0	000.2400	0189.6	017.9	256.0	000.0067	0026.8	046.3	15.05
099.0	000.2400	0190.2	017.9	255.7	000.0066	0026.6	046.4	14.94
100.0	000.2400	0190.5	017.9	255.3	000.0065	0026.5	046.6	14.84
101.0	000.2400	0191.7	018.0	254.9	000.0064	0026.8	046.7	14.73
102.0	000.2400	0192.8	018.0	254.6	000.0063	0027.1	046.8	14.64
103.0	000.2400	0193.2	018.0	254.2	000.0062	0027.6	046.9	14.55
104.0	000.2400	0193.0	018.0	253.9	000.0061	0028.2	047.0	14.45
105.0	000.2400	0192.1	018.0	253.6	000.0060	0028.7	047.2	14.35
106.0	000.2400	0189.6	017.9	253.3	000.0060	0029.2	047.5	14.25
107.0	000.2400	0185.9	017.7	253.1	000.0059	0029.7	047.8	14.14
108.0	000.2400	0182.2	017.5	252.9	000.0059	0030.1	048.1	14.06
109.0	000.2400	0178.2	017.4	252.8	000.0058	0030.4	048.5	14.02

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
110.0	000.2269	0174.1	016.9	252.8	000.0059	0030.3	049.0	13.89
111.0	000.2176	0170.3	016.5	252.9	000.0059	0030.3	049.5	13.78
112.0	000.2086	0167.1	016.1	252.9	000.0059	0030.3	050.0	13.67
113.0	000.1997	0164.5	015.8	252.9	000.0059	0030.3	050.4	13.58
114.0	000.1911	0162.0	015.5	252.9	000.0059	0030.2	050.8	13.48
115.0	000.1826	0160.2	015.2	252.9	000.0059	0030.3	051.2	13.40
116.0	000.1743	0159.3	014.9	252.8	000.0059	0030.3	051.6	13.33
117.0	000.1663	0157.8	014.7	252.8	000.0059	0030.3	052.0	13.25
118.0	000.1584	0156.5	014.4	252.8	000.0059	0030.3	052.3	13.17
119.0	000.1507	0156.1	014.2	252.8	000.0058	0030.4	052.6	13.10
120.0	000.1432	0155.1	014.0	252.8	000.0058	0030.4	053.0	13.03
121.0	000.1373	0153.1	013.7	252.8	000.0059	0030.3	053.3	12.95
122.0	000.1316	0150.7	013.5	252.9	000.0059	0030.2	053.7	12.87
123.0	000.1260	0148.6	013.2	252.9	000.0059	0030.2	054.0	12.79
124.0	000.1206	0147.6	013.0	252.9	000.0059	0030.2	054.3	12.72
125.0	000.1152	0147.0	012.9	252.9	000.0059	0030.2	054.6	12.66
126.0	000.1100	0146.5	012.7	252.9	000.0059	0030.2	054.9	12.60
127.0	000.1049	0145.7	012.5	252.9	000.0059	0030.1	055.2	12.54
128.0	000.0999	0143.6	012.3	253.0	000.0059	0030.0	055.5	12.46
129.0	000.0951	0140.3	012.0	253.1	000.0059	0029.7	055.8	12.41
130.0	000.0903	0135.5	011.6	253.3	000.0060	0029.2	056.2	12.37
131.0	000.0866	0131.0	011.3	253.5	000.0060	0028.9	056.5	12.33
132.0	000.0830	0128.3	011.1	253.6	000.0060	0028.7	056.8	12.28
133.0	000.0795	0127.4	010.9	253.6	000.0060	0028.7	057.0	12.24
134.0	000.0761	0127.5	010.8	253.6	000.0060	0028.7	057.3	12.19
135.0	000.0727	0127.9	010.7	253.6	000.0060	0028.7	057.5	12.15
136.0	000.0694	0126.9	010.6	253.7	000.0061	0028.6	057.7	12.11
137.0	000.0662	0127.2	010.5	253.7	000.0061	0028.5	057.9	12.06
138.0	000.0630	0128.3	010.4	253.7	000.0061	0028.6	058.1	12.02
139.0	000.0600	0129.7	010.3	253.7	000.0061	0028.6	058.3	11.98
140.0	000.0570	0130.4	010.2	253.7	000.0061	0028.6	058.5	11.94
141.0	000.0547	0132.3	010.2	253.6	000.0061	0028.6	058.7	11.90
142.0	000.0524	0132.5	010.1	253.7	000.0061	0028.6	058.9	11.86

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     08-25-2008    USGS 03 SEC Terrain Data

     1211514     BNPED20071015ABW          1211549
     Channel = 204A                        Channel =  204A
     Max ERP = 0.1 kW                      Max ERP = 0.24 kW
     RCAMSL =  80 M                        RCAMSL =  269 M
     N. Lat. 42 54 32.0                    N. Lat. 42 49 46.8
     W. Lng. 70 57 15.0                    W. Lng. 71 43 14.8
     Protected                             Interfering
        60  dBu                               40  dBu


  Azimuth     ERP     HAAT    Dist  | Azimuth     ERP     HAAT    Dist    Actual
 (degrees)   (kW)     (m)     (km)  |(degrees)   (kW)     (m)     (km)    (dBu)
----------------------------------|--------------------------------------------
 202.0   000.0032   0053.3   003.2 | 084.3   000.2400   0191.2   061.7   38.07
 203.0   000.0032   0050.0   003.1 | 084.2   000.2400   0191.4   061.7   38.08
 204.0   000.0032   0045.5   002.9 | 084.0   000.2400   0191.6   061.8   38.08
 205.0   000.0032   0044.4   002.9 | 084.0   000.2400   0191.7   061.7   38.09
 206.0   000.0032   0043.8   002.9 | 083.9   000.2400   0191.8   061.7   38.11
 207.0   000.0032   0043.5   002.9 | 083.9   000.2400   0191.8   061.7   38.12
 208.0   000.0032   0042.0   002.8 | 083.9   000.2400   0191.9   061.7   38.13
 209.0   000.0032   0039.5   002.7 | 083.8   000.2400   0192.1   061.7   38.14
 210.0   000.0032   0038.6   002.7 | 083.7   000.2400   0192.1   061.6   38.15
 211.0   000.0032   0040.3   002.8 | 083.7   000.2400   0192.1   061.6   38.17
 212.0   000.0032   0041.2   002.8 | 083.7   000.2400   0192.1   061.5   38.19
 213.0   000.0032   0041.3   002.8 | 083.7   000.2400   0192.2   061.5   38.21
 214.0   000.0032   0041.3   002.8 | 083.7   000.2400   0192.2   061.4   38.23
 215.0   000.0032   0041.9   002.8 | 083.7   000.2400   0192.2   061.4   38.25
 216.0   000.0032   0041.3   002.8 | 083.6   000.2400   0192.3   061.4   38.26
 217.0   000.0032   0039.6   002.7 | 083.5   000.2400   0192.4   061.4   38.26
 218.0   000.0032   0038.2   002.7 | 083.5   000.2400   0192.5   061.4   38.26
 219.0   000.0032   0036.9   002.7 | 083.4   000.2400   0192.5   061.4   38.27
 220.0   000.0032   0035.4   002.6 | 083.3   000.2400   0192.6   061.4   38.27
 221.0   000.0032   0036.5   002.6 | 083.3   000.2400   0192.6   061.3   38.29
 222.0   000.0032   0038.0   002.7 | 083.3   000.2400   0192.6   061.2   38.31
 223.0   000.0032   0038.3   002.7 | 083.3   000.2400   0192.6   061.2   38.33
 224.0   000.0032   0036.7   002.6 | 083.3   000.2400   0192.6   061.2   38.32
 225.0   000.0032   0035.9   002.6 | 083.2   000.2400   0192.6   061.2   38.33
 226.0   000.0032   0035.2   002.6 | 083.2   000.2400   0192.7   061.2   38.33
 227.0   000.0032   0034.7   002.6 | 083.1   000.2400   0192.7   061.2   38.34
 228.0   000.0032   0034.2   002.6 | 083.1   000.2400   0192.7   061.2   38.34
 229.0   000.0032   0033.8   002.5 | 083.0   000.2400   0192.7   061.2   38.35
 230.0   000.0032   0033.9   002.5 | 083.0   000.2400   0192.7   061.1   38.36
 231.0   000.0032   0034.5   002.6 | 083.0   000.2400   0192.7   061.1   38.37
 232.0   000.0032   0035.6   002.6 | 082.9   000.2400   0192.8   061.0   38.39
 233.0   000.0032   0037.0   002.7 | 082.9   000.2400   0192.8   061.0   38.42
 234.0   000.0032   0037.3   002.7 | 082.9   000.2400   0192.8   060.9   38.43
 235.0   000.0032   0037.1   002.7 | 082.9   000.2400   0192.8   060.9   38.44
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Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
236.0	000.0033	0037.1	002.7	082.8	000.2400	0192.8	060.9	38.45
237.0	000.0033	0037.3	002.7	082.8	000.2400	0192.8	060.8	38.47
238.0	000.0034	0037.7	002.7	082.8	000.2400	0192.8	060.8	38.48
239.0	000.0035	0038.3	002.8	082.7	000.2400	0192.8	060.7	38.50
240.0	000.0036	0038.3	002.8	082.7	000.2400	0192.8	060.7	38.52
241.0	000.0037	0037.9	002.8	082.7	000.2400	0192.9	060.7	38.53
242.0	000.0038	0037.0	002.8	082.6	000.2400	0192.9	060.7	38.53
243.0	000.0039	0035.8	002.7	082.6	000.2400	0192.9	060.7	38.53
244.0	000.0040	0034.3	002.7	082.5	000.2400	0193.0	060.7	38.52
245.0	000.0041	0033.8	002.7	082.5	000.2400	0193.0	060.7	38.53
246.0	000.0043	0033.1	002.7	082.4	000.2400	0193.1	060.7	38.54
247.0	000.0045	0032.5	002.7	082.4	000.2400	0193.1	060.6	38.55
248.0	000.0047	0031.6	002.7	082.3	000.2400	0193.1	060.6	38.55
249.0	000.0049	0031.0	002.7	082.3	000.2400	0193.2	060.6	38.56
250.0	000.0052	0031.1	002.7	082.3	000.2400	0193.2	060.6	38.58
251.0	000.0054	0031.5	002.8	082.2	000.2400	0193.2	060.5	38.60
252.0	000.0057	0031.4	002.8	082.2	000.2400	0193.3	060.5	38.61
253.0	000.0059	0030.0	002.8	082.1	000.2400	0193.3	060.5	38.60
254.0	000.0061	0028.0	002.8	082.1	000.2400	0193.3	060.5	38.62
255.0	000.0064	0026.7	002.8	082.1	000.2400	0193.3	060.4	38.63
256.0	000.0067	0026.8	002.9	082.0	000.2400	0193.4	060.4	38.64
257.0	000.0071	0027.1	002.9	082.0	000.2400	0193.4	060.4	38.66
258.0	000.0074	0026.8	002.9	081.9	000.2400	0193.4	060.3	38.67
259.0	000.0078	0026.5	003.0	081.9	000.2400	0193.5	060.3	38.69
260.0	000.0082	0026.1	003.0	081.8	000.2400	0193.6	060.3	38.70
261.0	000.0085	0026.2	003.0	081.8	000.2400	0193.6	060.2	38.72
262.0	000.0089	0026.9	003.1	081.7	000.2400	0193.7	060.2	38.73
263.0	000.0093	0027.7	003.1	081.7	000.2400	0193.7	060.2	38.75
264.0	000.0097	0028.4	003.1	081.6	000.2400	0193.8	060.1	38.76
265.0	000.0101	0028.4	003.2	081.6	000.2400	0193.9	060.1	38.78
266.0	000.0106	0027.9	003.2	081.5	000.2400	0194.0	060.1	38.79
267.0	000.0112	0027.6	003.2	081.5	000.2400	0194.0	060.0	38.81
268.0	000.0117	0027.7	003.3	081.4	000.2400	0194.1	060.0	38.83
269.0	000.0123	0028.0	003.3	081.3	000.2400	0194.2	060.0	38.84
270.0	000.0129	0028.7	003.4	081.3	000.2400	0194.3	059.9	38.86
271.0	000.0135	0029.5	003.4	081.2	000.2400	0194.4	059.9	38.87
272.0	000.0141	0029.9	003.4	081.2	000.2400	0194.5	059.9	38.88
273.0	000.0147	0029.8	003.5	081.1	000.2400	0194.6	059.9	38.90
274.0	000.0154	0029.1	003.5	081.0	000.2400	0194.6	059.8	38.91
275.0	000.0160	0028.7	003.5	081.0	000.2400	0194.7	059.8	38.92
276.0	000.0168	0028.6	003.6	080.9	000.2400	0194.8	059.8	38.93
277.0	000.0177	0028.8	003.6	080.8	000.2400	0194.8	059.8	38.94
278.0	000.0186	0029.2	003.7	080.8	000.2400	0194.8	059.7	38.95
279.0	000.0195	0029.7	003.7	080.7	000.2400	0194.8	059.7	38.96
280.0	000.0204	0029.6	003.8	080.6	000.2400	0194.8	059.7	38.97
281.0	000.0213	0029.5	003.8	080.5	000.2400	0194.7	059.7	38.97
282.0	000.0223	0030.6	003.9	080.5	000.2400	0194.7	059.6	38.99
283.0	000.0233	0031.1	003.9	080.4	000.2400	0194.7	059.6	39.00
284.0	000.0243	0030.3	003.9	080.3	000.2400	0194.6	059.6	38.99
285.0	000.0253	0029.7	004.0	080.2	000.2400	0194.5	059.6	38.98
286.0	000.0266	0027.9	004.0	080.2	000.2400	0194.4	059.6	38.98

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
287.0	000.0280	0027.5	004.1	080.1	000.2400	0194.2	059.6	38.98
288.0	000.0293	0027.8	004.1	080.0	000.2400	0194.0	059.6	38.97
289.0	000.0308	0028.7	004.2	079.9	000.2400	0193.8	059.6	38.97
290.0	000.0322	0030.9	004.3	079.8	000.2400	0193.5	059.5	38.98
291.0	000.0337	0033.1	004.5	079.6	000.2400	0192.9	059.4	39.00
292.0	000.0352	0034.7	004.6	079.5	000.2400	0192.4	059.3	39.01
293.0	000.0367	0036.8	004.8	079.3	000.2400	0191.7	059.2	39.03
294.0	000.0383	0039.2	005.0	079.1	000.2400	0190.9	059.0	39.04
295.0	000.0399	0041.2	005.2	078.9	000.2400	0190.1	058.9	39.05
296.0	000.0420	0041.8	005.3	078.8	000.2400	0189.6	058.9	39.04
297.0	000.0442	0041.6	005.4	078.7	000.2400	0189.1	058.9	39.01
298.0	000.0464	0041.6	005.5	078.6	000.2400	0188.6	058.9	38.99
299.0	000.0486	0041.4	005.5	078.5	000.2400	0188.2	058.9	38.96
300.0	000.0509	0041.2	005.6	078.4	000.2400	0187.7	059.0	38.93
301.0	000.0533	0040.9	005.6	078.3	000.2400	0187.2	059.0	38.90
302.0	000.0557	0040.8	005.7	078.2	000.2400	0186.8	059.0	38.87
303.0	000.0581	0040.8	005.7	078.1	000.2400	0186.3	059.1	38.84
304.0	000.0606	0040.7	005.8	078.0	000.2400	0185.9	059.1	38.81
305.0	000.0632	0040.8	005.8	077.9	000.2400	0185.5	059.1	38.78
306.0	000.0665	0041.0	005.9	077.7	000.2400	0184.9	059.1	38.74
307.0	000.0699	0040.9	006.0	077.6	000.2400	0184.3	059.2	38.71
308.0	000.0734	0040.8	006.0	077.5	000.2400	0183.8	059.2	38.67
309.0	000.0769	0040.8	006.1	077.4	000.2400	0183.4	059.2	38.64
310.0	000.0806	0041.1	006.2	077.3	000.2400	0182.8	059.3	38.61
311.0	000.0843	0041.2	006.3	077.1	000.2400	0182.4	059.3	38.57
312.0	000.0881	0040.6	006.3	077.1	000.2400	0182.2	059.4	38.53
313.0	000.0920	0039.8	006.3	077.0	000.2400	0182.0	059.5	38.49
314.0	000.0959	0038.8	006.3	076.9	000.2400	0181.9	059.6	38.45
315.0	000.1000	0038.1	006.3	076.9	000.2400	0181.7	059.7	38.41
316.0	000.0959	0037.9	006.2	076.9	000.2400	0181.7	059.8	38.37
317.0	000.0920	0038.3	006.2	076.9	000.2400	0181.7	059.9	38.32
318.0	000.0881	0038.9	006.2	076.8	000.2400	0181.6	060.0	38.28
319.0	000.0843	0039.6	006.2	076.8	000.2400	0181.5	060.1	38.24
320.0	000.0806	0040.4	006.1	076.7	000.2400	0181.4	060.2	38.20
321.0	000.0769	0040.9	006.1	076.7	000.2400	0181.3	060.3	38.16
322.0	000.0734	0041.2	006.1	076.7	000.2400	0181.3	060.4	38.12

University Of Massachusetts
MilfordNew v. WEVS

FMCommander Single Allocation Study
08-25-2008

1211549   CH 204 A   WEVS   CH 202 A   BLED20050720ACY
0.24 kW 269 M COR DA   5.0 kW, 89 M COR DA
Prot. = 60 dBu   Prot. = 60 dBu
Intef. = 100 dBu   Intef. = 100 dBu
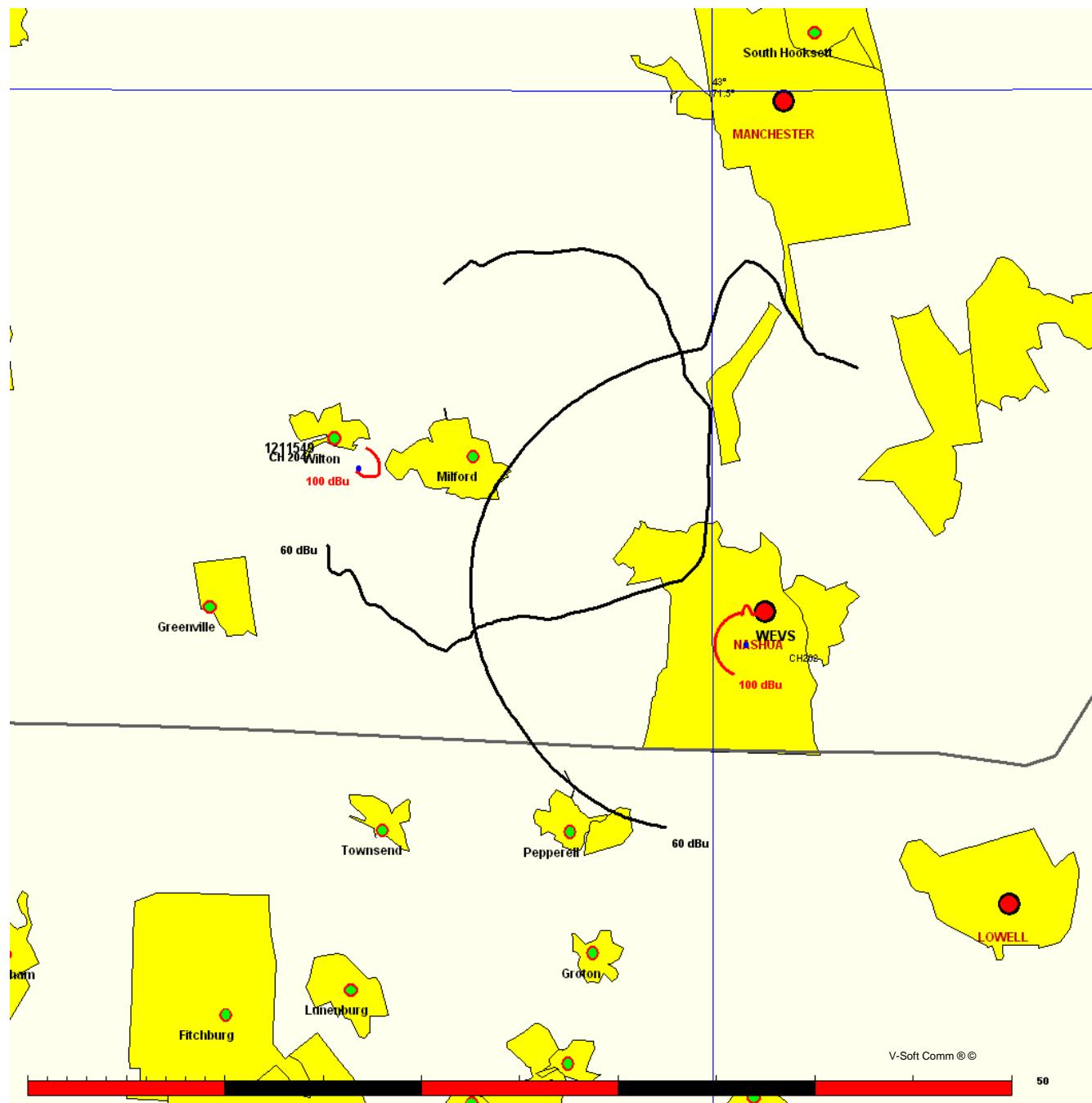
```
   1211549                                   WEVS        BLED20050720ACY
   Channel =   204A                          Channel = 202A
   Max ERP = 0.24 kW                         Max ERP = 5 kW
   RCAMSL =   269 M                          RCAMSL =   89 M
   N. Lat. 42 49 46.8                        N. Lat. 42 45 00.0
   W. Lng. 71 43 14.8                        W. Lng. 71 28 47.0
   Protected                                 Interfering
      60  dBu                                   100  dBu
```

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
054.0	000.2400	0176.1	017.2	343.2	005.0000	0022.7	019.8	55.97
055.0	000.2400	0177.5	017.3	343.7	005.0000	0023.5	019.6	56.18
056.0	000.2400	0177.3	017.3	343.9	005.0000	0023.9	019.3	56.41
057.0	000.2400	0177.1	017.3	344.2	005.0000	0024.4	019.0	56.65
058.0	000.2400	0177.3	017.3	344.5	005.0000	0025.1	018.7	56.88
059.0	000.2400	0178.9	017.4	345.0	005.0000	0026.1	018.4	57.10
060.0	000.2400	0180.6	017.5	345.5	005.0000	0026.8	018.2	57.32
061.0	000.2400	0180.9	017.5	345.7	005.0000	0027.1	017.9	57.56
062.0	000.2400	0180.4	017.5	345.9	005.0000	0027.3	017.6	57.81
063.0	000.2400	0180.0	017.4	346.1	005.0000	0027.4	017.3	58.07
064.0	000.2400	0179.8	017.4	346.3	005.0000	0027.5	017.0	58.32
065.0	000.2400	0178.9	017.4	346.3	005.0000	0027.5	016.7	58.57
066.0	000.2400	0178.2	017.4	346.4	005.0000	0027.5	016.4	58.83
067.0	000.2400	0177.5	017.3	346.5	005.0000	0027.5	016.1	59.09
068.0	000.2400	0178.1	017.3	346.8	005.0000	0027.6	015.8	59.34
069.0	000.2400	0179.0	017.4	347.1	005.0000	0027.7	015.5	59.59
070.0	000.2400	0179.0	017.4	347.2	005.0000	0027.8	015.2	59.85
071.0	000.2400	0179.4	017.4	347.4	005.0000	0027.9	014.9	60.14
072.0	000.2400	0178.8	017.4	347.4	005.0000	0027.9	014.6	60.49
073.0	000.2400	0177.4	017.3	347.3	005.0000	0027.8	014.3	60.86
074.0	000.2400	0175.9	017.2	347.0	005.0000	0027.7	014.0	61.24
075.0	000.2400	0177.6	017.3	347.4	005.0000	0027.9	013.7	61.62
076.0	000.2400	0179.9	017.4	348.0	005.0000	0028.3	013.4	62.02
077.0	000.2400	0182.0	017.5	348.4	005.0000	0028.6	013.1	62.44
078.0	000.2400	0186.0	017.7	349.2	005.0000	0029.5	012.8	62.86
079.0	000.2400	0190.3	017.9	350.1	005.0000	0029.5	012.5	63.31
080.0	000.2400	0194.1	018.1	350.9	005.0000	0029.6	012.1	63.77
081.0	000.2400	0194.7	018.1	351.1	005.0000	0029.7	011.8	64.25
082.0	000.2400	0193.4	018.0	350.8	005.0000	0029.5	011.5	64.74
083.0	000.2400	0192.7	018.0	350.6	005.0000	0029.5	011.2	65.25
084.0	000.2400	0191.7	018.0	350.3	005.0000	0029.5	010.9	65.76
085.0	000.2400	0190.3	017.9	349.8	005.0000	0029.6	010.6	66.27
086.0	000.2400	0189.4	017.9	349.4	005.0000	0029.6	010.3	66.79
087.0	000.2400	0189.1	017.9	349.1	005.0000	0029.3	010.0	67.33
088.0	000.2400	0188.8	017.8	348.7	005.0000	0028.9	009.7	67.87
089.0	000.2400	0188.0	017.8	348.2	005.0000	0028.4	009.4	68.41
090.0	000.2400	0186.9	017.8	347.5	005.0000	0027.9	009.1	68.94

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
091.0	000.2400	0187.5	017.8	347.2	005.0000	0027.8	008.8	69.52
092.0	000.2400	0188.3	017.8	346.9	005.0000	0027.7	008.4	70.10
093.0	000.2400	0189.3	017.9	346.6	005.0000	0027.6	008.1	70.70
094.0	000.2400	0189.5	017.9	346.0	005.0000	0027.4	007.8	71.29
095.0	000.2400	0189.7	017.9	345.4	005.0000	0026.7	007.5	71.94
096.0	000.2400	0190.0	017.9	344.6	005.0000	0025.4	007.2	72.63
097.0	000.2400	0189.6	017.9	343.5	005.0000	0023.2	007.0	73.32
098.0	000.2400	0189.6	017.9	342.4	005.0000	0020.8	006.7	74.05
099.0	000.2400	0190.2	017.9	341.4	005.0000	0019.4	006.4	74.81
100.0	000.2400	0190.5	017.9	340.1	005.0000	0019.5	006.1	75.58
101.0	000.2400	0191.7	018.0	339.0	005.0000	0019.3	005.8	76.45
102.0	000.2400	0192.8	018.0	337.7	005.0000	0017.6	005.5	77.34
103.0	000.2400	0193.2	018.0	335.9	005.0000	0014.1	005.3	78.18
104.0	000.2400	0193.0	018.0	333.6	005.0000	0010.8	005.0	78.96
105.0	000.2400	0192.1	018.0	330.8	005.0000	0007.0	004.8	79.62
106.0	000.2400	0189.6	017.9	327.1	005.0000	0015.1	004.7	80.07
107.0	000.2400	0185.9	017.7	322.8	005.0000	0021.1	004.6	80.28
108.0	000.2400	0182.2	017.5	318.5	005.0000	0018.3	004.6	80.38
109.0	000.2400	0178.2	017.4	314.0	005.0000	0023.7	004.6	80.29
110.0	000.2269	0174.1	016.9	308.6	005.0000	0022.1	004.9	79.20
111.0	000.2176	0170.3	016.5	304.3	005.0000	0017.9	005.2	78.24
112.0	000.2086	0167.1	016.1	300.5	005.0000	0010.9	005.5	77.25
113.0	000.1997	0164.5	015.8	297.4	004.9088	-0005.9	005.9	76.24
114.0	000.1911	0162.0	015.5	294.6	004.8145	-0015.4	006.2	75.24
115.0	000.1826	0160.2	015.2	292.3	004.7332	-0019.0	006.5	74.37
116.0	000.1743	0159.3	014.9	290.1	004.6609	-0026.1	006.7	73.65
117.0	000.1663	0157.8	014.7	288.3	004.5523	-0027.0	007.0	72.80
118.0	000.1584	0156.5	014.4	286.6	004.4535	-0025.1	007.3	71.99
119.0	000.1507	0156.1	014.2	285.1	004.3620	-0026.2	007.6	71.32
120.0	000.1432	0155.1	014.0	283.8	004.2855	-0028.0	007.8	70.60
121.0	000.1373	0153.1	013.7	282.6	004.2195	-0028.0	008.2	69.93
122.0	000.1316	0150.7	013.5	281.7	004.1655	-0028.4	008.5	69.25
123.0	000.1260	0148.6	013.2	280.8	004.1164	-0028.5	008.8	68.61
124.0	000.1206	0147.6	013.0	280.0	004.0663	-0027.8	009.1	68.06
125.0	000.1152	0147.0	012.9	279.1	004.0080	-0026.7	009.3	67.54
126.0	000.1100	0146.5	012.7	278.4	003.9559	-0025.8	009.6	67.03
127.0	000.1049	0145.7	012.5	277.8	003.9131	-0024.7	009.8	66.50
128.0	000.0999	0143.6	012.3	277.4	003.8868	-0024.1	010.1	65.92
129.0	000.0951	0140.3	012.0	277.2	003.8761	-0024.0	010.5	65.29
130.0	000.0903	0135.5	011.6	277.3	003.8821	-0024.0	010.9	64.60
131.0	000.0866	0131.0	011.3	277.3	003.8835	-0024.0	011.3	64.00
132.0	000.0830	0128.3	011.1	277.2	003.8720	-0024.0	011.6	63.52
133.0	000.0795	0127.4	010.9	276.8	003.8493	-0024.1	011.8	63.12
134.0	000.0761	0127.5	010.8	276.4	003.8210	-0024.2	012.0	62.78
135.0	000.0727	0127.9	010.7	276.0	003.7940	-0024.1	012.2	62.45
136.0	000.0694	0126.9	010.6	275.8	003.7810	-0024.0	012.5	62.08
137.0	000.0662	0127.2	010.5	275.5	003.7602	-0023.7	012.7	61.76
138.0	000.0630	0128.3	010.4	275.2	003.7350	-0023.1	012.8	61.48
139.0	000.0600	0129.7	010.3	274.8	003.7105	-0022.2	013.0	61.20
140.0	000.0570	0130.4	010.2	274.6	003.6939	-0021.5	013.2	60.91
141.0	000.0547	0132.3	010.2	274.1	003.6643	-0020.0	013.4	60.67

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
142.0	000.0524	0132.5	010.1	273.9	003.6511	-0019.3	013.6	60.39
143.0	000.0502	0134.4	010.0	273.5	003.6260	-0018.0	013.7	60.16
144.0	000.0480	0137.5	010.1	273.0	003.5933	-0016.2	013.8	59.95
145.0	000.0459	0141.7	010.1	272.4	003.5530	-0014.3	014.0	59.77
146.0	000.0438	0147.1	010.2	271.7	003.5054	-0013.2	014.0	59.59
147.0	000.0418	0150.4	010.2	271.3	003.4777	-0013.0	014.2	59.38
148.0	000.0398	0152.3	010.1	271.1	003.4627	-0012.9	014.4	59.15
149.0	000.0378	0153.9	010.1	270.9	003.4528	-0012.8	014.5	58.91
150.0	000.0360	0156.6	010.0	270.6	003.4363	-0012.6	014.7	58.70
151.0	000.0345	0160.5	010.1	270.2	003.4071	-0012.3	014.8	58.50
152.0	000.0331	0164.1	010.1	269.8	003.3818	-0012.1	015.0	58.31
153.0	000.0317	0169.2	010.2	269.3	003.3461	-0011.8	015.1	58.16
154.0	000.0303	0173.3	010.2	268.9	003.3223	-0011.7	015.3	57.99
155.0	000.0289	0172.8	010.0	269.1	003.3339	-0011.7	015.5	57.82
156.0	000.0276	0170.3	009.9	269.5	003.3601	-0011.9	015.7	57.65
157.0	000.0263	0168.5	009.7	269.8	003.3830	-0012.1	016.0	57.49
158.0	000.0251	0166.7	009.5	270.2	003.4067	-0012.3	016.2	57.33
159.0	000.0239	0161.8	009.2	270.8	003.4495	-0012.8	016.4	57.17
160.0	000.0227	0154.6	008.9	271.8	003.5098	-0013.2	016.7	57.01
161.0	000.0218	0150.0	008.6	272.4	003.5481	-0014.2	016.9	56.87
162.0	000.0209	0146.9	008.5	272.8	003.5766	-0015.4	017.1	56.73
163.0	000.0200	0144.7	008.3	273.1	003.5992	-0016.5	017.3	56.59
164.0	000.0191	0141.2	008.1	273.6	003.6312	-0018.2	017.5	56.46
165.0	000.0183	0139.5	007.9	273.9	003.6509	-0019.3	017.7	56.33
166.0	000.0174	0138.7	007.8	274.1	003.6646	-0020.1	017.9	56.21
167.0	000.0166	0138.3	007.7	274.3	003.6774	-0020.7	018.0	56.09
168.0	000.0158	0135.6	007.5	274.7	003.7039	-0022.0	018.2	55.98
169.0	000.0151	0130.5	007.3	275.3	003.7420	-0023.2	018.4	55.87
170.0	000.0143	0126.2	007.1	275.8	003.7748	-0023.9	018.6	55.76
171.0	000.0137	0125.0	007.0	276.0	003.7888	-0024.1	018.7	55.66
172.0	000.0132	0124.7	006.9	276.1	003.7978	-0024.1	018.9	55.56
173.0	000.0126	0125.2	006.9	276.2	003.8041	-0024.2	019.0	55.46
174.0	000.0121	0127.8	006.9	276.1	003.8007	-0024.2	019.1	55.36

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     08-25-2008    USGS 03 SEC Terrain Data


     WEVS        BLED20050720ACY            1211549
     Channel = 202A                    Channel =  204A
     Max ERP = 5 kW                    Max ERP = 0.24 kW
     RCAMSL =  89 M                    RCAMSL =  269 M
     N. Lat. 42 45 00.0                N. Lat. 42 49 46.8
     W. Lng. 71 28 47.0                W. Lng. 71 43 14.8
     Protected                         Interfering
        60   dBu                          100   dBu



  Azimuth    ERP    HAAT    Dist  | Azimuth    ERP    HAAT    Dist   Actual
 (degrees)  (kW)    (m)     (km)  |(degrees)  (kW)    (m)     (km)   (dBu)
---------------------------------|-------------------------------------------
 234.0  001.6279  0007.5  011.4  | 146.1  000.0436  0147.6  018.8  50.19
 235.0  001.6560  0007.6  011.5  | 146.3  000.0433  0148.2  018.6  50.36
 236.0  001.6843  0007.9  011.5  | 146.4  000.0430  0148.7  018.4  50.53
 237.0  001.7129  0008.9  011.6  | 146.6  000.0427  0149.2  018.2  50.69
 238.0  001.7417  0010.0  011.6  | 146.7  000.0424  0149.6  018.0  50.85
 239.0  001.7707  0011.8  011.7  | 146.8  000.0421  0149.9  017.8  51.01
 240.0  001.8000  0012.9  011.7  | 146.9  000.0419  0150.2  017.6  51.18
 241.0  001.8301  0014.2  011.8  | 147.1  000.0417  0150.5  017.3  51.34
 242.0  001.8605  0014.3  011.8  | 147.2  000.0415  0150.7  017.1  51.50
 243.0  001.8911  0013.8  011.8  | 147.2  000.0413  0150.9  016.9  51.67
 244.0  001.9220  0012.8  011.9  | 147.3  000.0411  0151.1  016.7  51.84
 245.0  001.9531  0011.0  011.9  | 147.4  000.0410  0151.2  016.5  52.02
 246.0  001.9845  0009.3  012.0  | 147.4  000.0409  0151.4  016.3  52.19
 247.0  002.0161  0008.1  012.0  | 147.5  000.0408  0151.4  016.1  52.37
 248.0  002.0480  0006.4  012.1  | 147.5  000.0408  0151.5  015.9  52.54
 249.0  002.0801  0005.6  012.1  | 147.5  000.0407  0151.5  015.6  52.72
 250.0  002.1125  0005.8  012.2  | 147.5  000.0407  0151.5  015.4  52.91
 251.0  002.1714  0006.7  012.2  | 147.6  000.0405  0151.8  015.2  53.09
 252.0  002.2311  0007.4  012.3  | 147.7  000.0403  0151.9  015.0  53.14
 253.0  002.2916  0008.2  012.4  | 147.8  000.0402  0152.0  014.8  53.38
 254.0  002.3530  0008.0  012.5  | 147.9  000.0400  0152.1  014.5  53.64
 255.0  002.4151  0007.5  012.6  | 147.9  000.0399  0152.2  014.3  53.90
 256.0  002.4781  0006.1  012.6  | 148.0  000.0399  0152.2  014.1  54.18
 257.0  002.5418  0004.3  012.7  | 148.0  000.0398  0152.3  013.8  54.47
 258.0  002.6064  0002.1  012.8  | 148.0  000.0399  0152.2  013.6  54.77
 259.0  002.6718  0000.4  012.9  | 147.9  000.0399  0152.2  013.4  55.08
 260.0  002.7380 -0000.2  012.9  | 147.9  000.0401  0152.1  013.1  55.40
 261.0  002.8005 -0000.8  013.0  | 147.8  000.0403  0152.0  012.9  55.74
 262.0  002.8637 -0001.3  013.1  | 147.6  000.0405  0151.8  012.6  56.08
 263.0  002.9277 -0002.0  013.1  | 147.5  000.0408  0151.5  012.4  56.44
 264.0  002.9923 -0003.7  013.2  | 147.3  000.0412  0151.1  012.2  56.79
 265.0  003.0576 -0006.2  013.3  | 147.1  000.0416  0150.5  011.9  57.16
 266.0  003.1237 -0008.1  013.4  | 146.8  000.0421  0150.0  011.7  57.54
 267.0  003.1904 -0009.1  013.4  | 146.6  000.0427  0149.2  011.5  57.91
```

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
268.0	003.2579	-0010.8	013.5	146.2	000.0433	0148.1	011.2	58.28
269.0	003.3260	-0011.7	013.6	145.9	000.0440	0146.5	011.0	58.63
270.0	003.3949	-0012.2	013.6	145.5	000.0449	0144.4	010.7	58.96
271.0	003.4595	-0012.9	013.7	145.0	000.0458	0141.9	010.5	59.28
272.0	003.5246	-0013.5	013.7	144.5	000.0469	0139.2	010.3	59.60
273.0	003.5904	-0016.0	013.8	143.9	000.0481	0137.3	010.1	59.98
274.0	003.6568	-0019.6	013.9	143.3	000.0495	0135.4	009.8	60.37
275.0	003.7238	-0022.7	013.9	142.7	000.0509	0133.4	009.6	60.77
276.0	003.7915	-0024.1	014.0	141.9	000.0526	0132.5	009.4	61.25
277.0	003.8597	-0024.0	014.1	141.1	000.0544	0132.4	009.2	61.80
278.0	003.9285	-0025.2	014.1	140.3	000.0564	0131.0	009.0	62.27
279.0	003.9980	-0026.5	014.2	139.3	000.0590	0129.9	008.8	62.81
280.0	004.0680	-0027.8	014.2	138.3	000.0621	0128.8	008.6	63.36
281.0	004.1250	-0028.6	014.3	137.2	000.0657	0127.3	008.4	63.88
282.0	004.1825	-0028.2	014.3	135.9	000.0696	0127.0	008.2	64.49
283.0	004.2403	-0028.0	014.4	134.6	000.0739	0127.9	008.0	65.18
284.0	004.2985	-0027.9	014.4	133.2	000.0787	0127.3	007.8	65.77
285.0	004.3571	-0026.3	014.5	131.8	000.0839	0128.7	007.7	66.50
286.0	004.4161	-0024.9	014.5	130.2	000.0896	0134.5	007.5	67.53
287.0	004.4755	-0025.5	014.6	128.5	000.0972	0141.9	007.4	68.69
288.0	004.5353	-0026.6	014.6	126.8	000.1059	0145.9	007.2	69.64
289.0	004.5955	-0027.2	014.7	125.0	000.1154	0147.0	007.1	70.39
290.0	004.6561	-0026.3	014.7	123.1	000.1257	0148.5	007.0	71.13
291.0	004.6900	-0024.2	014.8	121.0	000.1372	0153.0	006.9	71.97
292.0	004.7239	-0020.3	014.8	118.9	000.1512	0156.2	006.9	72.74
293.0	004.7580	-0017.1	014.8	116.8	000.1679	0158.1	006.8	73.44
294.0	004.7922	-0016.2	014.8	114.6	000.1859	0160.7	006.8	74.11
295.0	004.8265	-0014.8	014.9	112.4	000.2050	0166.0	006.7	74.87
296.0	004.8610	-0012.5	014.9	110.2	000.2252	0173.3	006.7	75.65
297.0	004.8956	-0008.1	014.9	108.0	000.2400	0182.3	006.7	76.30
298.0	004.9302	-0001.7	014.9	105.7	000.2400	0190.4	006.8	76.56
299.0	004.9651	0004.6	015.0	103.5	000.2400	0193.2	006.8	76.59
300.0	005.0000	0009.4	015.0	101.4	000.2400	0192.2	006.9	76.42
301.0	005.0000	0010.9	015.0	099.3	000.2400	0190.4	006.9	76.13
302.0	005.0000	0011.4	015.0	097.3	000.2400	0189.6	007.0	75.86
303.0	005.0000	0014.3	015.0	095.4	000.2400	0189.9	007.2	75.60
304.0	005.0000	0017.4	015.0	093.6	000.2400	0189.5	007.3	75.29
305.0	005.0000	0018.8	015.0	091.9	000.2400	0188.2	007.4	74.93
306.0	005.0000	0020.2	015.0	090.2	000.2400	0187.0	007.6	74.56
307.0	005.0000	0021.2	015.0	088.6	000.2400	0188.4	007.7	74.28
308.0	005.0000	0021.8	015.0	087.2	000.2400	0189.2	007.9	73.97
309.0	005.0000	0022.2	015.0	085.8	000.2400	0189.6	008.1	73.64
310.0	005.0000	0022.1	015.0	084.4	000.2400	0191.1	008.3	73.35
311.0	005.0000	0021.8	015.0	083.2	000.2400	0192.6	008.4	73.05
312.0	005.0000	0021.3	015.0	082.0	000.2400	0193.3	008.6	72.71
313.0	005.0000	0021.9	015.0	081.0	000.2400	0194.7	008.8	72.39
314.0	005.0000	0023.7	015.0	079.9	000.2400	0193.9	009.1	71.96
315.0	005.0000	0023.9	015.0	079.0	000.2400	0190.3	009.3	71.41
316.0	005.0000	0022.7	015.0	078.1	000.2400	0186.5	009.5	70.84
317.0	005.0000	0020.9	015.0	077.3	000.2400	0183.0	009.7	70.28
318.0	005.0000	0019.2	015.0	076.5	000.2400	0181.0	009.9	69.78

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
319.0	005.0000	0016.7	015.0	075.8	000.2400	0179.6	010.2	69.31
320.0	005.0000	0016.8	015.0	075.2	000.2400	0178.1	010.4	68.84
321.0	005.0000	0019.8	015.0	074.6	000.2400	0176.7	010.6	68.36
322.0	005.0000	0021.3	015.0	074.1	000.2400	0175.9	010.9	67.92
323.0	005.0000	0020.9	015.0	073.6	000.2400	0176.2	011.1	67.54
324.0	005.0000	0019.0	015.0	073.1	000.2400	0177.2	011.4	67.20
325.0	005.0000	0017.3	015.0	072.7	000.2400	0178.0	011.6	66.84
326.0	005.0000	0016.1	015.0	072.3	000.2400	0178.5	011.9	66.49
327.0	005.0000	0015.2	015.0	072.0	000.2400	0178.8	012.1	66.12
328.0	005.0000	0012.7	015.0	071.7	000.2400	0179.0	012.4	65.75
329.0	005.0000	0008.1	015.0	071.4	000.2400	0179.2	012.6	65.40
330.0	005.0000	0006.2	015.0	071.1	000.2400	0179.3	012.9	65.04
331.0	005.0000	0007.5	015.0	070.9	000.2400	0179.4	013.1	64.69
332.0	005.0000	0009.4	015.0	070.7	000.2400	0179.3	013.4	64.34
333.0	005.0000	0010.6	015.0	070.6	000.2400	0179.3	013.7	63.99
334.0	005.0000	0010.6	015.0	070.4	000.2400	0179.2	013.9	63.66
335.0	005.0000	0012.4	015.0	070.3	000.2400	0179.2	014.2	63.33
336.0	005.0000	0014.4	015.0	070.2	000.2400	0179.1	014.4	63.01
337.0	005.0000	0016.5	015.0	070.2	000.2400	0179.1	014.7	62.71
338.0	005.0000	0017.9	015.0	070.1	000.2400	0179.1	015.0	62.41
339.0	005.0000	0019.3	015.0	070.1	000.2400	0179.1	015.2	62.36
340.0	005.0000	0019.6	015.0	070.1	000.2400	0179.1	015.5	62.13
341.0	005.0000	0019.2	015.0	070.1	000.2400	0179.1	015.8	61.91
342.0	005.0000	0020.1	015.0	070.1	000.2400	0179.1	016.0	61.69
343.0	005.0000	0022.3	015.0	070.1	000.2400	0179.1	016.3	61.47
344.0	005.0000	0024.0	015.0	070.2	000.2400	0179.1	016.5	61.26
345.0	005.0000	0026.2	015.0	070.2	000.2400	0179.1	016.8	61.04
346.0	005.0000	0027.3	015.0	070.3	000.2400	0179.2	017.1	60.82
347.0	005.0000	0027.7	015.0	070.4	000.2400	0179.2	017.3	60.61
348.0	005.0000	0028.3	015.0	070.5	000.2400	0179.2	017.6	60.40
349.0	005.0000	0029.2	015.0	070.6	000.2400	0179.3	017.8	60.19
350.0	005.0000	0029.5	015.0	070.8	000.2400	0179.4	018.1	59.98
351.0	005.0000	0029.6	015.0	070.9	000.2400	0179.4	018.4	59.77
352.0	005.0000	0030.6	015.1	070.7	000.2400	0179.3	018.6	59.53
353.0	005.0000	0033.0	015.7	069.1	000.2400	0179.0	019.0	59.21
354.0	005.0000	0035.3	016.3	067.7	000.2400	0177.8	019.4	58.81

University Of Massachusetts
MilfordNew v. WRVT.C

FMCommander Single Allocation Study
08-25-2008

1211549 CH 204 A	WRVT-C CH 204 C2 BPED20070808ADL
0.24 kW 269 M COR DA	4.8 kW, 663 M COR DA
Prot. = 60 dBu	Prot. = 60 dBu
Intef. = 40 dBu	Intef. = 40 dBu
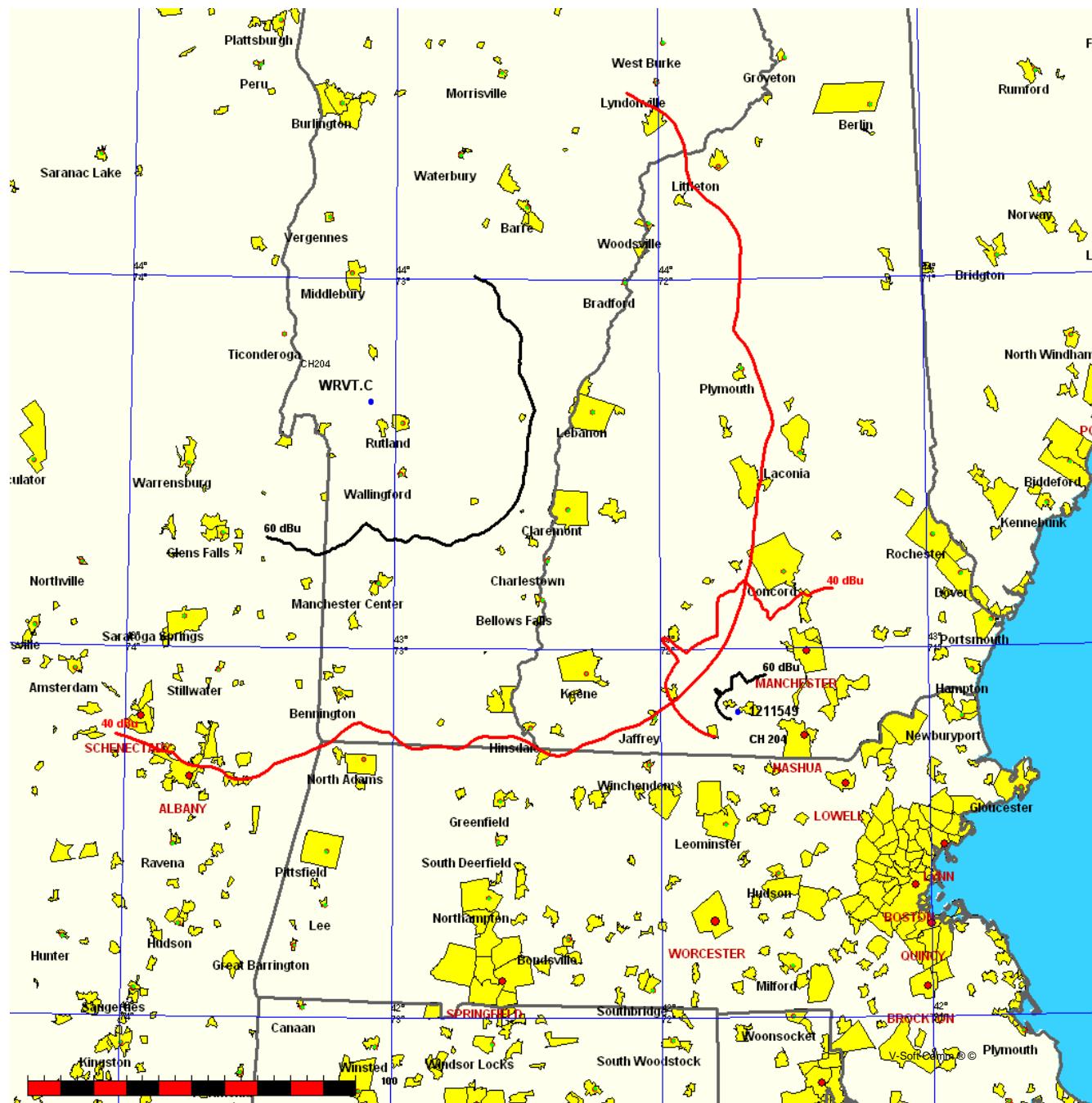
        1211549   WRVT-C   BPED20070808ADL
        Channel =   204A   Channel = 204C2
        Max ERP = 0.24 kW   Max ERP = 4.8 kW
        RCAMSL =   269 M   RCAMSL =   663 M
        N. Lat. 42 49 46.8   N. Lat. 43 39 31.0
        W. Lng. 71 43 14.8   W. Lng. 73 06 25.0
        Protected   Interfering
           60 dBu   40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
250.0	000.0375	-0028.0	004.4	130.4	004.8000	0474.0	143.3	36.60
251.0	000.0394	-0028.9	004.4	130.4	004.8000	0474.0	143.2	36.63
252.0	000.0414	-0029.9	004.5	130.4	004.8000	0474.0	143.1	36.65
253.0	000.0435	-0029.6	004.5	130.4	004.8000	0474.0	143.0	36.67
254.0	000.0456	-0030.1	004.6	130.4	004.8000	0474.0	142.9	36.69
255.0	000.0478	-0029.9	004.7	130.4	004.8000	0474.0	142.8	36.72
256.0	000.0500	-0029.4	004.7	130.4	004.8000	0474.0	142.7	36.74
257.0	000.0523	-0028.5	004.8	130.4	004.8000	0474.0	142.6	36.77
258.0	000.0546	-0027.9	004.8	130.4	004.8000	0474.0	142.5	36.79
259.0	000.0569	-0028.6	004.9	130.4	004.8000	0474.0	142.4	36.81
260.0	000.0594	-0030.3	004.9	130.4	004.8000	0474.0	142.3	36.84
261.0	000.0625	-0033.4	005.0	130.4	004.8000	0474.0	142.2	36.86
262.0	000.0657	-0034.3	005.1	130.4	004.8000	0474.0	142.1	36.89
263.0	000.0689	-0035.3	005.1	130.4	004.8000	0474.0	142.0	36.92
264.0	000.0723	-0035.2	005.2	130.4	004.8000	0474.0	141.9	36.94
265.0	000.0757	-0036.2	005.3	130.4	004.8000	0474.0	141.7	36.97
266.0	000.0792	-0037.4	005.3	130.4	004.8000	0474.0	141.6	37.00
267.0	000.0828	-0038.7	005.4	130.4	004.8000	0474.0	141.5	37.02
268.0	000.0865	-0046.1	005.4	130.4	004.8000	0474.0	141.4	37.05
269.0	000.0903	-0055.6	005.5	130.4	004.8000	0474.0	141.3	37.08
270.0	000.0941	-0058.3	005.5	130.4	004.8000	0474.1	141.2	37.10
271.0	000.0990	-0056.5	005.6	130.3	004.8000	0474.1	141.1	37.13
272.0	000.1041	-0057.5	005.7	130.3	004.8000	0474.1	141.0	37.16
273.0	000.1093	-0056.8	005.8	130.3	004.8000	0474.1	140.8	37.19
274.0	000.1146	-0053.0	005.8	130.3	004.8000	0474.1	140.7	37.22
275.0	000.1200	-0049.8	005.9	130.3	004.8000	0474.2	140.6	37.25
276.0	000.1256	-0044.8	006.0	130.3	004.8000	0474.2	140.5	37.28
277.0	000.1313	-0037.8	006.0	130.2	004.8000	0474.2	140.4	37.31
278.0	000.1371	-0028.6	006.1	130.2	004.8000	0474.2	140.3	37.34
279.0	000.1430	-0025.8	006.2	130.2	004.8000	0474.3	140.2	37.37
280.0	000.1491	-0029.5	006.2	130.2	004.8000	0474.3	140.0	37.39
281.0	000.1569	-0037.5	006.3	130.2	004.8000	0474.3	139.9	37.43
282.0	000.1650	-0047.7	006.4	130.1	004.8000	0474.3	139.8	37.46
283.0	000.1732	-0057.5	006.5	130.1	004.8000	0474.4	139.7	37.49
284.0	000.1816	-0066.9	006.5	130.1	004.8000	0474.4	139.6	37.52
285.0	000.1902	-0076.4	006.6	130.1	004.8000	0474.4	139.4	37.55
286.0	000.1990	-0081.3	006.7	130.0	004.8000	0474.5	139.3	37.58

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
287.0	000.2081	-0072.8	006.8	130.0	004.8000	0474.5	139.2	37.61
288.0	000.2173	-0058.2	006.8	130.0	004.8000	0474.5	139.1	37.64
289.0	000.2267	-0044.6	006.9	129.9	004.8000	0474.6	139.0	37.67
290.0	000.2363	-0035.3	007.0	129.9	004.8000	0474.6	138.9	37.70
291.0	000.2400	-0032.6	007.0	129.9	004.8000	0474.6	138.8	37.72
292.0	000.2400	-0033.5	007.0	129.8	004.8000	0474.7	138.8	37.73
293.0	000.2400	-0032.8	007.0	129.8	004.8000	0474.7	138.7	37.74
294.0	000.2400	-0031.4	007.0	129.7	004.8000	0474.8	138.7	37.75
295.0	000.2400	-0033.9	007.0	129.7	004.8000	0474.8	138.6	37.76
296.0	000.2400	-0041.2	007.0	129.6	004.8000	0474.9	138.6	37.77
297.0	000.2400	-0048.7	007.0	129.6	004.8000	0474.9	138.6	37.78
298.0	000.2400	-0052.4	007.0	129.5	004.8000	0475.0	138.6	37.79
299.0	000.2400	-0052.0	007.0	129.5	004.8000	0475.0	138.5	37.79
300.0	000.2400	-0048.7	007.0	129.4	004.8000	0475.1	138.5	37.80
301.0	000.2400	-0043.5	007.0	129.4	004.8000	0475.1	138.5	37.81
302.0	000.2400	-0033.9	007.0	129.3	004.8000	0475.2	138.5	37.81
303.0	000.2400	-0024.4	007.0	129.3	004.8000	0475.2	138.5	37.82
304.0	000.2400	-0015.0	007.0	129.2	004.8000	0475.3	138.4	37.82
305.0	000.2400	-0006.0	007.0	129.2	004.8000	0475.3	138.4	37.83
306.0	000.2400	0000.2	007.0	129.1	004.8000	0475.4	138.4	37.83
307.0	000.2400	0007.1	007.0	129.1	004.8000	0475.5	138.4	37.84
308.0	000.2400	0014.2	007.0	129.0	004.8000	0475.5	138.4	37.84
309.0	000.2400	0020.8	007.0	129.0	004.8000	0475.6	138.4	37.84
310.0	000.2400	0027.0	007.0	128.9	004.8000	0475.6	138.4	37.84
311.0	000.2400	0034.2	007.4	128.8	004.8000	0475.7	138.0	37.95
312.0	000.2400	0043.5	008.5	128.8	004.8000	0475.8	137.0	38.22
313.0	000.2400	0050.6	009.2	128.7	004.8000	0475.9	136.2	38.42
314.0	000.2400	0054.2	009.6	128.6	004.8000	0476.0	135.9	38.50
315.0	000.2400	0052.2	009.4	128.6	004.8000	0476.1	136.1	38.46
316.0	000.2400	0047.9	009.0	128.5	004.8000	0476.2	136.5	38.34
317.0	000.2400	0039.6	008.0	128.5	004.8000	0476.2	137.5	38.10
318.0	000.2400	0029.6	007.0	128.5	004.8000	0476.2	138.5	37.84
319.0	000.2400	0018.3	007.0	128.4	004.8000	0476.2	138.5	37.83
320.0	000.2400	0011.0	007.0	128.4	004.8000	0476.3	138.5	37.83
321.0	000.2400	0006.7	007.0	128.3	004.8000	0476.4	138.6	37.83
322.0	000.2400	0002.1	007.0	128.3	004.8000	0476.5	138.6	37.82
323.0	000.2400	-0001.9	007.0	128.2	004.8000	0476.5	138.6	37.82
324.0	000.2400	-0003.3	007.0	128.2	004.8000	0476.6	138.6	37.81
325.0	000.2400	-0008.0	007.0	128.2	004.8000	0476.7	138.7	37.80
326.0	000.2400	-0013.4	007.0	128.1	004.8000	0476.8	138.7	37.80
327.0	000.2400	-0017.5	007.0	128.1	004.8000	0476.9	138.7	37.79
328.0	000.2400	-0019.9	007.0	128.0	004.8000	0476.9	138.8	37.78
329.0	000.2400	-0018.4	007.0	128.0	004.8000	0477.0	138.8	37.77
330.0	000.2400	-0016.1	007.0	127.9	004.8000	0477.1	138.9	37.76
331.0	000.2400	-0014.3	007.0	127.9	004.8000	0477.1	138.9	37.75
332.0	000.2400	-0009.6	007.0	127.8	004.8000	0477.2	139.0	37.74
333.0	000.2400	-0001.6	007.0	127.8	004.8000	0477.3	139.0	37.73
334.0	000.2400	0005.4	007.0	127.7	004.8000	0477.3	139.1	37.72
335.0	000.2400	0008.7	007.0	127.7	004.8000	0477.4	139.1	37.71
336.0	000.2400	0012.1	007.0	127.6	004.8000	0477.5	139.2	37.70
337.0	000.2400	0013.5	007.0	127.6	004.8000	0477.5	139.2	37.68

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
338.0	000.2400	0015.9	007.0	127.5	004.8000	0477.6	139.3	37.67
339.0	000.2400	0018.8	007.0	127.5	004.8000	0477.6	139.4	37.66
340.0	000.2400	0022.2	007.0	127.5	004.8000	0477.6	139.4	37.64
341.0	000.2400	0024.3	007.0	127.4	004.8000	0477.7	139.5	37.63
342.0	000.2400	0024.9	007.0	127.4	004.8000	0477.7	139.6	37.61
343.0	000.2400	0025.7	007.0	127.3	004.8000	0477.7	139.6	37.59
344.0	000.2400	0027.4	007.0	127.3	004.8000	0477.7	139.7	37.57
345.0	000.2400	0028.4	007.0	127.2	004.8000	0477.7	139.8	37.56
346.0	000.2400	0034.4	007.5	127.1	004.8000	0477.6	139.5	37.62
347.0	000.2400	0041.0	008.2	126.9	004.8000	0477.5	139.0	37.74
348.0	000.2400	0050.1	009.2	126.6	004.8000	0477.3	138.4	37.90
349.0	000.2400	0056.9	009.8	126.3	004.8000	0477.3	138.0	38.00
350.0	000.2400	0061.2	010.2	126.2	004.8000	0477.3	137.8	38.03
351.0	000.2400	0064.7	010.4	126.1	004.8000	0477.4	137.8	38.05
352.0	000.2400	0064.7	010.4	126.0	004.8000	0477.4	137.9	38.02
353.0	000.2400	0065.1	010.4	125.9	004.8000	0477.5	138.0	37.99
354.0	000.2400	0066.8	010.6	125.8	004.8000	0477.5	138.1	37.98
355.0	000.2400	0067.8	010.6	125.8	004.8000	0477.5	138.2	37.96
356.0	000.2400	0068.5	010.7	125.7	004.8000	0477.6	138.3	37.93
357.0	000.2400	0068.8	010.7	125.7	004.8000	0477.6	138.4	37.90
358.0	000.2400	0068.6	010.7	125.6	004.8000	0477.6	138.6	37.86
359.0	000.2400	0070.0	010.8	125.5	004.8000	0477.7	138.7	37.84
000.0	000.2400	0073.8	011.0	125.4	004.8000	0477.8	138.6	37.84
001.0	000.2400	0076.3	011.2	125.3	004.8000	0477.9	138.7	37.83
002.0	000.2400	0078.4	011.4	125.2	004.8000	0478.0	138.8	37.81
003.0	000.2400	0080.6	011.5	125.1	004.8000	0478.1	138.9	37.79
004.0	000.2400	0078.5	011.4	125.1	004.8000	0478.0	139.1	37.73
005.0	000.2400	0076.9	011.3	125.1	004.8000	0478.1	139.3	37.67
006.0	000.2400	0074.8	011.1	125.1	004.8000	0478.0	139.6	37.61
007.0	000.2400	0072.9	011.0	125.1	004.8000	0478.0	139.8	37.55
008.0	000.2400	0068.6	010.7	125.2	004.8000	0478.0	140.1	37.47
009.0	000.2400	0062.5	010.3	125.3	004.8000	0477.9	140.5	37.38
010.0	000.2400	0061.0	010.1	125.3	004.8000	0477.9	140.7	37.33

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    08-25-2008    USGS 03 SEC Terrain Data

    WRVT-C      BPED20070808ADL            1211549
    Channel = 204C2                        Channel =  204A
    Max ERP = 4.8 kW                       Max ERP = 0.24 kW
    RCAMSL =  663 M                        RCAMSL =  269 M
    N. Lat. 43 39 31.0                     N. Lat. 42 49 46.8
    W. Lng. 73 06 25.0                     W. Lng. 71 43 14.8
    Protected                              Interfering
       60  dBu                                40  dBu


 Azimuth     ERP     HAAT     Dist  | Azimuth     ERP     HAAT     Dist    Actual
(degrees)   (kW)     (m)      (km)  |(degrees)   (kW)     (m)      (km)    (dBu)
------------------------------------|---------------------------------------------
 069.0   004.8000  0390.6   048.8  |  329.0   000.2400  -0018.5   128.4   14.24
 070.0   004.8000  0383.0   048.4  |  328.7   000.2400  -0019.0   127.6   14.39
 071.0   004.8000  0376.8   048.1  |  328.5   000.2400  -0019.5   126.9   14.53
 072.0   004.8000  0371.2   047.8  |  328.3   000.2400  -0019.8   126.1   14.67
 073.0   004.8000  0366.0   047.5  |  328.0   000.2400  -0019.9   125.4   14.81
 074.0   004.8000  0360.4   047.2  |  327.8   000.2400  -0019.7   124.7   14.94
 075.0   004.8000  0355.7   046.9  |  327.6   000.2400  -0019.2   124.0   15.08
 076.0   004.8000  0352.7   046.7  |  327.4   000.2400  -0018.7   123.3   15.21
 077.0   004.8000  0348.0   046.4  |  327.1   000.2400  -0017.9   122.6   15.34
 078.0   004.8000  0340.9   046.0  |  326.8   000.2400  -0016.9   122.0   15.46
 079.0   004.8000  0338.0   045.8  |  326.6   000.2400  -0016.0   121.4   15.59
 080.0   004.8000  0342.1   046.1  |  326.5   000.2400  -0015.8   120.5   15.75
 081.0   004.8000  0349.6   046.5  |  326.6   000.2400  -0015.9   119.6   15.92
 082.0   004.8000  0355.9   046.9  |  326.5   000.2400  -0015.9   118.7   16.10
 083.0   004.8000  0360.8   047.2  |  326.5   000.2400  -0015.7   117.9   16.26
 084.0   004.8000  0364.9   047.4  |  326.4   000.2400  -0015.3   117.0   16.42
 085.0   004.8000  0367.7   047.6  |  326.3   000.2400  -0014.8   116.2   16.58
 086.0   004.8000  0371.4   047.8  |  326.2   000.2400  -0014.2   115.4   16.74
 087.0   004.8000  0376.8   048.1  |  326.1   000.2400  -0013.7   114.5   16.91
 088.0   004.8000  0381.8   048.4  |  326.0   000.2400  -0013.1   113.7   17.08
 089.0   004.8000  0386.8   048.6  |  325.8   000.2400  -0012.5   112.8   17.24
 090.0   004.8000  0392.6   048.9  |  325.7   000.2400  -0011.9   111.9   17.42
 091.0   004.8000  0398.8   049.3  |  325.6   000.2400  -0011.3   111.1   17.59
 092.0   004.8000  0405.0   049.6  |  325.5   000.2400  -0010.7   110.2   17.77
 093.0   004.8000  0408.7   049.8  |  325.3   000.2400  -0009.5   109.4   17.93
 094.0   004.8000  0407.4   049.7  |  325.0   000.2400  -0007.7   108.7   18.05
 095.0   004.8000  0400.1   049.3  |  324.5   000.2400  -0005.2   108.3   18.13
 096.0   004.8000  0395.2   049.1  |  324.1   000.2400  -0003.6   107.9   18.22
 097.0   004.8000  0393.2   049.0  |  323.7   000.2400  -0003.1   107.3   18.33
 098.0   004.8000  0393.2   049.0  |  323.4   000.2400  -0002.8   106.7   18.45
 099.0   004.8000  0392.7   048.9  |  323.1   000.2400  -0002.1   106.1   18.57
 100.0   004.8000  0394.2   049.0  |  322.8   000.2400  -0001.2   105.5   18.69
 101.0   004.8000  0397.0   049.2  |  322.5   000.2400  0000.0   104.8   18.83
 102.0   004.8000  0395.7   049.1  |  322.1   000.2400   0001.6   104.3   18.93
```

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
103.0	004.8000	0394.6	049.0	321.7	000.2400	0003.6	103.8	19.02
104.0	004.8000	0397.8	049.2	321.4	000.2400	0005.0	103.2	19.16
105.0	004.8000	0400.9	049.4	321.0	000.2400	0006.5	102.5	19.28
106.0	004.8000	0404.2	049.6	320.7	000.2400	0008.2	101.9	19.41
107.0	004.8000	0406.5	049.7	320.3	000.2400	0009.6	101.3	19.53
108.0	004.8000	0410.3	049.9	320.0	000.2400	0011.2	100.7	19.65
109.0	004.8000	0415.7	050.2	319.6	000.2400	0013.5	100.0	19.79
110.0	004.8000	0421.6	050.5	319.3	000.2400	0016.1	099.3	19.94
111.0	004.8000	0426.8	050.8	318.9	000.2400	0019.2	098.6	20.07
112.0	004.8000	0430.4	051.0	318.5	000.2400	0023.4	098.1	20.18
113.0	004.8000	0434.0	051.2	318.1	000.2400	0028.8	097.5	20.29
114.0	004.8000	0437.1	051.3	317.6	000.2400	0034.0	097.0	20.57
115.0	004.8000	0440.7	051.5	317.2	000.2400	0038.1	096.5	20.85
116.0	004.8000	0445.3	051.8	316.7	000.2400	0042.1	095.9	21.14
117.0	004.8000	0451.7	052.1	316.3	000.2400	0045.9	095.3	21.43
118.0	004.8000	0456.7	052.4	315.8	000.2400	0049.0	094.7	21.68
119.0	004.8000	0460.7	052.6	315.3	000.2400	0051.1	094.3	21.88
120.0	004.8000	0464.0	052.8	314.8	000.2400	0053.0	093.9	22.06
121.0	004.8000	0467.6	053.0	314.3	000.2400	0054.0	093.4	22.19
122.0	004.8000	0471.4	053.2	313.7	000.2400	0053.8	093.0	22.28
123.0	004.8000	0475.1	053.5	313.2	000.2400	0051.6	092.7	22.26
124.0	004.8000	0477.4	053.6	312.6	000.2400	0048.4	092.4	22.18
125.0	004.8000	0478.1	053.6	312.1	000.2400	0044.1	092.3	22.01
126.0	004.8000	0477.4	053.6	311.5	000.2400	0038.7	092.2	21.77
127.0	004.8000	0477.6	053.6	310.9	000.2400	0033.3	092.1	21.54
128.0	004.8000	0476.9	053.6	310.3	000.2400	0028.8	092.1	21.38
129.0	004.8000	0475.5	053.5	309.7	000.2400	0025.4	092.2	21.37
130.0	004.8000	0474.5	053.4	309.2	000.2400	0021.9	092.3	21.36
131.0	004.8000	0473.3	053.4	308.6	000.2400	0017.8	092.4	21.33
132.0	004.8000	0472.3	053.3	308.0	000.2400	0014.2	092.5	21.31
133.0	004.8000	0469.9	053.2	307.4	000.2400	0010.4	092.7	21.26
134.0	004.8000	0467.0	053.0	306.9	000.2400	0006.3	093.0	21.21
135.0	004.8000	0464.3	052.8	306.3	000.2400	0002.3	093.3	21.15
136.0	004.8000	0461.0	052.7	305.8	000.2400	-0000.9	093.6	21.08
137.0	004.8000	0458.0	052.5	305.3	000.2400	-0004.1	094.0	21.01
138.0	004.8000	0455.2	052.3	304.8	000.2400	-0008.0	094.3	20.93
139.0	004.8000	0451.5	052.1	304.3	000.2400	-0012.7	094.7	20.85
140.0	004.8000	0447.3	051.9	303.8	000.2400	-0017.3	095.2	20.75
141.0	004.8000	0440.4	051.5	303.3	000.2400	-0021.7	095.9	20.62
142.0	004.8000	0430.7	051.0	302.9	000.2400	-0025.1	096.6	20.47
143.0	004.8000	0424.6	050.7	302.5	000.2400	-0028.7	097.3	20.34
144.0	004.8000	0420.2	050.4	302.1	000.2400	-0033.1	097.8	20.23
145.0	004.8000	0419.0	050.4	301.6	000.2400	-0038.1	098.2	20.15
146.0	004.8000	0414.7	050.1	301.2	000.2400	-0042.1	098.8	20.03
147.0	004.8000	0409.0	049.8	300.8	000.2400	-0044.6	099.5	19.90
148.0	004.8000	0403.1	049.5	300.5	000.2400	-0046.9	100.1	19.76
149.0	004.8000	0403.4	049.5	300.0	000.2400	-0048.6	100.5	19.68
150.0	004.8000	0403.8	049.5	299.6	000.2400	-0050.0	101.0	19.60
151.0	004.8000	0401.7	049.4	299.2	000.2400	-0051.3	101.5	19.49
152.0	004.8000	0394.9	049.1	298.9	000.2400	-0052.1	102.3	19.33
153.0	004.8000	0377.6	048.1	298.8	000.2400	-0052.2	103.5	19.08

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
154.0	004.8000	0358.4	047.0	298.8	000.2400	-0052.3	104.9	18.81
155.0	004.8000	0341.4	046.0	298.8	000.2400	-0052.3	106.2	18.56
156.0	004.8000	0327.3	045.2	298.7	000.2400	-0052.4	107.3	18.33
157.0	004.8000	0316.4	044.5	298.6	000.2400	-0052.6	108.3	18.13
158.0	004.8000	0310.5	044.2	298.4	000.2400	-0052.7	109.1	17.98
159.0	004.8000	0304.6	043.8	298.2	000.2400	-0052.7	109.8	17.83
160.0	004.8000	0295.9	043.3	298.1	000.2400	-0052.6	110.7	17.65
161.0	004.8000	0287.4	042.8	298.0	000.2400	-0052.4	111.6	17.48
162.0	004.8000	0282.7	042.5	297.9	000.2400	-0052.1	112.3	17.34
163.0	004.8000	0286.6	042.8	297.5	000.2400	-0051.3	112.7	17.27
164.0	004.8000	0295.6	043.3	297.0	000.2400	-0049.0	112.9	17.23
165.0	004.8000	0300.2	043.6	296.7	000.2400	-0046.6	113.3	17.16
166.0	004.8000	0299.8	043.6	296.5	000.2400	-0045.0	113.9	17.04
167.0	004.8000	0292.3	043.1	296.4	000.2400	-0044.5	114.7	16.87
168.0	004.8000	0285.3	042.7	296.3	000.2400	-0044.0	115.6	16.70
169.0	004.8000	0280.4	042.4	296.2	000.2400	-0043.2	116.4	16.55
170.0	004.8000	0275.0	042.1	296.1	000.2400	-0042.5	117.1	16.40
171.0	004.8000	0275.2	042.1	295.9	000.2400	-0040.7	117.7	16.29
172.0	004.8000	0277.5	042.2	295.7	000.2400	-0038.6	118.3	16.18
173.0	004.8000	0273.5	042.0	295.6	000.2400	-0037.9	119.0	16.04
174.0	004.8000	0265.6	041.5	295.6	000.2400	-0038.0	119.9	15.87
175.0	004.8000	0251.5	040.6	295.8	000.2400	-0039.6	121.0	15.66
176.0	004.8000	0234.0	039.5	296.1	000.2400	-0042.1	122.1	15.44
177.0	004.8000	0219.6	038.5	296.4	000.2400	-0044.3	123.2	15.23
178.0	004.8000	0219.0	038.5	296.2	000.2400	-0043.2	123.8	15.12
179.0	004.8000	0214.4	038.1	296.2	000.2400	-0043.2	124.5	14.97
180.0	004.8000	0207.1	037.6	296.3	000.2400	-0044.0	125.4	14.82
181.0	004.8000	0203.0	037.2	296.3	000.2400	-0044.1	126.1	14.68
182.0	004.8000	0195.6	036.7	296.5	000.2400	-0045.1	126.9	14.52
183.0	004.8000	0198.4	036.9	296.3	000.2400	-0043.4	127.4	14.42
184.0	004.8000	0207.5	037.6	295.9	000.2400	-0040.0	127.8	14.36
185.0	004.8000	0218.5	038.4	295.4	000.2400	-0036.4	128.1	14.30
186.0	004.8000	0237.0	039.7	294.8	000.2400	-0032.8	128.3	14.25
187.0	004.8000	0254.0	040.8	294.2	000.2400	-0031.5	128.7	14.18
188.0	004.8000	0267.0	041.6	293.8	000.2400	-0031.5	129.2	14.09
189.0	004.8000	0275.5	042.1	293.5	000.2400	-0032.0	129.7	13.98

University Of Massachusetts
MilfordNew v. WERS

FMCommander Single Allocation Study
08-25-2008

1211549 CH 204 A	WERS CH 205 B1 BLED19900706KB
0.24 kW 269 M COR DA	4.0 kW, 203 M COR
Prot. = 60 dBu	Prot. = 60 dBu
Intef. = 54 dBu	Intef. = 54 dBu
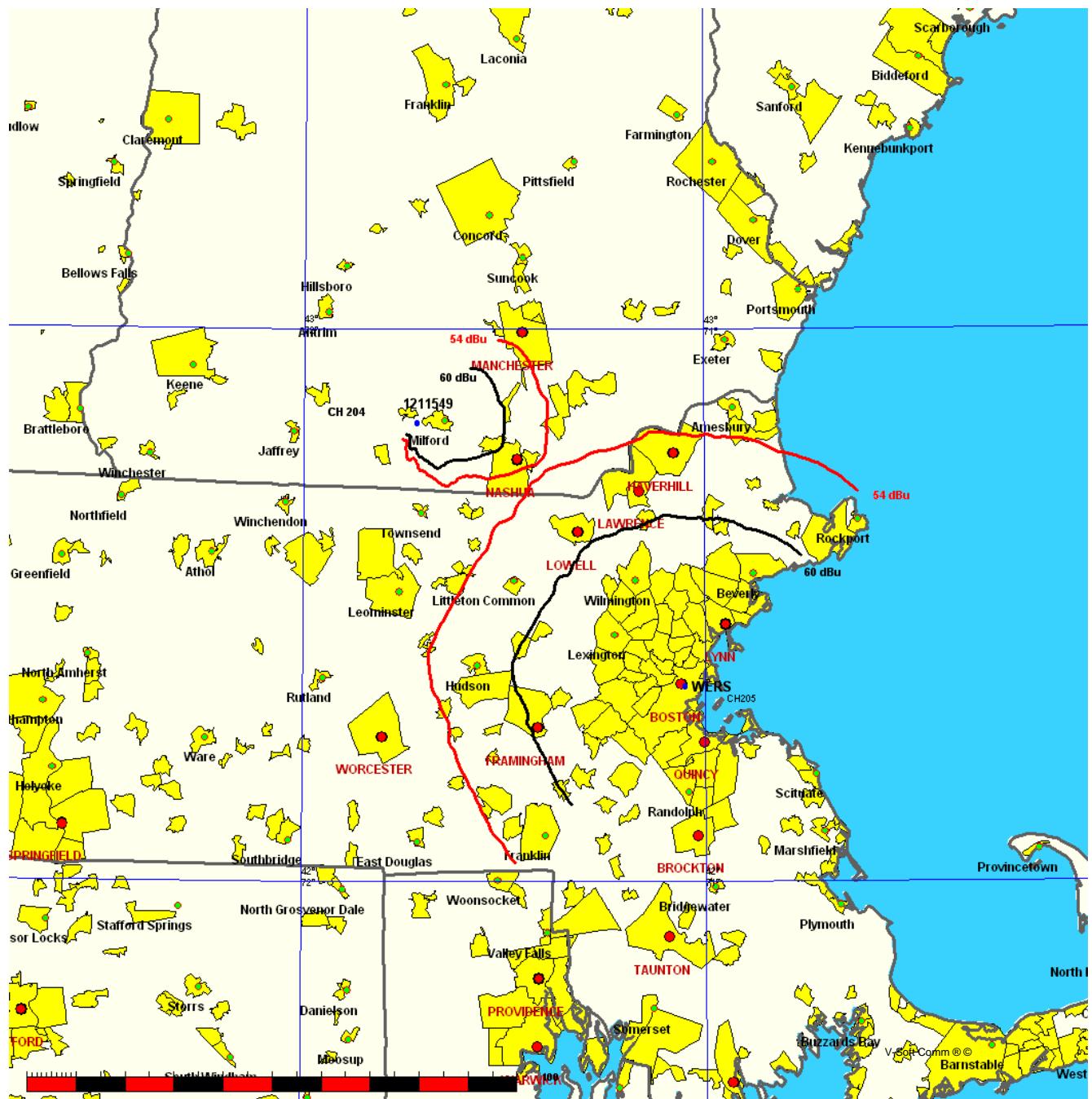
```
     1211549                                 WERS       BLED19900706KB
     Channel =  204A                         Channel = 205B1
     Max ERP = 0.24 kW                       Max ERP = 4 kW
     RCAMSL =  269 M                          RCAMSL =  203 M
     N. Lat. 42 49 46.8                       N. Lat. 42 21 08.0
     W. Lng. 71 43 14.8                       W. Lng. 71 03 25.0
     Protected                                Interfering
        60  dBu                                  54  dBu
```

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
074.0	000.2400	0175.9	017.2	327.0	004.0000	0188.6	069.1	47.67
075.0	000.2400	0177.6	017.3	327.0	004.0000	0188.7	068.8	47.78
076.0	000.2400	0179.9	017.4	327.0	004.0000	0188.6	068.5	47.88
077.0	000.2400	0182.0	017.5	327.0	004.0000	0188.7	068.2	47.99
078.0	000.2400	0186.0	017.7	327.0	004.0000	0188.6	067.8	48.11
079.0	000.2400	0190.3	017.9	327.1	004.0000	0188.6	067.4	48.23
080.0	000.2400	0194.1	018.1	327.1	004.0000	0188.6	067.1	48.35
081.0	000.2400	0194.7	018.1	327.0	004.0000	0188.6	066.8	48.45
082.0	000.2400	0193.4	018.0	326.9	004.0000	0188.7	066.5	48.54
083.0	000.2400	0192.7	018.0	326.7	004.0000	0188.6	066.3	48.63
084.0	000.2400	0191.7	018.0	326.6	004.0000	0188.6	066.0	48.71
085.0	000.2400	0190.3	017.9	326.4	004.0000	0188.4	065.8	48.79
086.0	000.2400	0189.4	017.9	326.2	004.0000	0188.3	065.5	48.87
087.0	000.2400	0189.1	017.9	326.1	004.0000	0188.1	065.2	48.95
088.0	000.2400	0188.8	017.8	325.9	004.0000	0187.7	065.0	49.02
089.0	000.2400	0188.0	017.8	325.7	004.0000	0187.2	064.7	49.08
090.0	000.2400	0186.9	017.8	325.5	004.0000	0186.5	064.5	49.13
091.0	000.2400	0187.5	017.8	325.4	004.0000	0186.0	064.2	49.19
092.0	000.2400	0188.3	017.8	325.3	004.0000	0185.5	064.0	49.27
093.0	000.2400	0189.3	017.9	325.1	004.0000	0185.2	063.7	49.35
094.0	000.2400	0189.5	017.9	325.0	004.0000	0185.0	063.5	49.42
095.0	000.2400	0189.7	017.9	324.8	004.0000	0184.9	063.2	49.50
096.0	000.2400	0190.0	017.9	324.6	004.0000	0185.0	063.0	49.59
097.0	000.2400	0189.6	017.9	324.4	004.0000	0185.3	062.7	49.68
098.0	000.2400	0189.6	017.9	324.2	004.0000	0185.7	062.5	49.78
099.0	000.2400	0190.2	017.9	324.0	004.0000	0186.0	062.3	49.87
100.0	000.2400	0190.5	017.9	323.8	004.0000	0186.0	062.1	49.96
101.0	000.2400	0191.7	018.0	323.6	004.0000	0186.0	061.8	50.04
102.0	000.2400	0192.8	018.0	323.4	004.0000	0185.9	061.6	50.13
103.0	000.2400	0193.2	018.0	323.2	004.0000	0185.8	061.3	50.20
104.0	000.2400	0193.0	018.0	323.0	004.0000	0185.8	061.1	50.27
105.0	000.2400	0192.1	018.0	322.7	004.0000	0185.8	061.0	50.33
106.0	000.2400	0189.6	017.9	322.4	004.0000	0185.5	060.9	50.35
107.0	000.2400	0185.9	017.7	322.1	004.0000	0185.2	060.8	50.35
108.0	000.2400	0182.2	017.5	321.8	004.0000	0184.7	060.8	50.34
109.0	000.2400	0178.2	017.4	321.5	004.0000	0183.8	060.8	50.31
110.0	000.2269	0174.1	016.9	321.0	004.0000	0182.1	061.0	50.15

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
111.0	000.2176	0170.3	016.5	320.6	004.0000	0179.9	061.2	49.98
112.0	000.2086	0167.1	016.1	320.2	004.0000	0178.0	061.4	49.83
113.0	000.1997	0164.5	015.8	319.8	004.0000	0176.6	061.6	49.70
114.0	000.1911	0162.0	015.5	319.4	004.0000	0175.5	061.8	49.59
115.0	000.1826	0160.2	015.2	319.1	004.0000	0174.8	061.9	49.50
116.0	000.1743	0159.3	014.9	318.8	004.0000	0174.6	062.0	49.46
117.0	000.1663	0157.8	014.7	318.5	004.0000	0174.7	062.2	49.41
118.0	000.1584	0156.5	014.4	318.2	004.0000	0174.8	062.3	49.36
119.0	000.1507	0156.1	014.2	317.9	004.0000	0174.8	062.4	49.33
120.0	000.1432	0155.1	014.0	317.6	004.0000	0174.8	062.6	49.27
121.0	000.1373	0153.1	013.7	317.4	004.0000	0174.6	062.8	49.21
122.0	000.1316	0150.7	013.5	317.1	004.0000	0174.3	063.0	49.13
123.0	000.1260	0148.6	013.2	316.8	004.0000	0174.1	063.1	49.05
124.0	000.1206	0147.6	013.0	316.6	004.0000	0173.6	063.3	48.99
125.0	000.1152	0147.0	012.9	316.4	004.0000	0173.0	063.4	48.92
126.0	000.1100	0146.5	012.7	316.1	004.0000	0172.4	063.5	48.84
127.0	000.1049	0145.7	012.5	315.9	004.0000	0171.7	063.7	48.76
128.0	000.0999	0143.6	012.3	315.7	004.0000	0170.9	063.9	48.65
129.0	000.0951	0140.3	012.0	315.5	004.0000	0170.1	064.1	48.52
130.0	000.0903	0135.5	011.6	315.3	004.0000	0169.4	064.5	48.38
131.0	000.0866	0131.0	011.3	315.1	004.0000	0168.7	064.8	48.25
132.0	000.0830	0128.3	011.1	314.9	004.0000	0168.1	065.0	48.14
133.0	000.0795	0127.4	010.9	314.7	004.0000	0167.6	065.1	48.07
134.0	000.0761	0127.5	010.8	314.5	004.0000	0167.2	065.2	48.02
135.0	000.0727	0127.9	010.7	314.4	004.0000	0166.9	065.3	47.97
136.0	000.0694	0126.9	010.6	314.2	004.0000	0166.8	065.5	47.90
137.0	000.0662	0127.2	010.5	314.1	004.0000	0166.6	065.6	47.86
138.0	000.0630	0128.3	010.4	313.9	004.0000	0166.5	065.7	47.82
139.0	000.0600	0129.7	010.3	313.8	004.0000	0166.5	065.8	47.79
140.0	000.0570	0130.4	010.2	313.6	004.0000	0166.5	065.9	47.75
141.0	000.0547	0132.3	010.2	313.5	004.0000	0166.6	066.0	47.74
142.0	000.0524	0132.5	010.1	313.3	004.0000	0166.8	066.1	47.71
143.0	000.0502	0134.4	010.0	313.2	004.0000	0167.0	066.2	47.70
144.0	000.0480	0137.5	010.1	313.0	004.0000	0167.3	066.2	47.71
145.0	000.0459	0141.7	010.1	312.9	004.0000	0167.6	066.2	47.73
146.0	000.0438	0147.1	010.2	312.7	004.0000	0168.0	066.1	47.76
147.0	000.0418	0150.4	010.2	312.6	004.0000	0168.5	066.2	47.77
148.0	000.0398	0152.3	010.1	312.4	004.0000	0168.9	066.3	47.76
149.0	000.0378	0153.9	010.1	312.3	004.0000	0169.4	066.4	47.74
150.0	000.0360	0156.6	010.0	312.2	004.0000	0169.9	066.5	47.74
151.0	000.0345	0160.5	010.1	312.0	004.0000	0170.6	066.5	47.76
152.0	000.0331	0164.1	010.1	311.9	004.0000	0171.2	066.5	47.77
153.0	000.0317	0169.2	010.2	311.7	004.0000	0171.9	066.5	47.81
154.0	000.0303	0173.3	010.2	311.6	004.0000	0172.6	066.6	47.82
155.0	000.0289	0172.8	010.0	311.5	004.0000	0173.0	066.8	47.78
156.0	000.0276	0170.3	009.9	311.4	004.0000	0173.3	067.0	47.71
157.0	000.0263	0168.5	009.7	311.3	004.0000	0173.6	067.2	47.65
158.0	000.0251	0166.7	009.5	311.3	004.0000	0173.9	067.5	47.58
159.0	000.0239	0161.8	009.2	311.2	004.0000	0173.9	067.8	47.48
160.0	000.0227	0154.6	008.9	311.3	004.0000	0173.8	068.2	47.35
161.0	000.0218	0150.0	008.6	311.3	004.0000	0173.9	068.5	47.25

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
162.0	000.0209	0146.9	008.5	311.2	004.0000	0174.0	068.7	47.18
163.0	000.0200	0144.7	008.3	311.2	004.0000	0174.1	068.9	47.11
164.0	000.0191	0141.2	008.1	311.2	004.0000	0174.1	069.2	47.03
165.0	000.0183	0139.5	007.9	311.2	004.0000	0174.2	069.4	46.97
166.0	000.0174	0138.7	007.8	311.1	004.0000	0174.4	069.5	46.92
167.0	000.0166	0138.3	007.7	311.1	004.0000	0174.5	069.7	46.87
168.0	000.0158	0135.6	007.5	311.1	004.0000	0174.5	069.9	46.80
169.0	000.0151	0130.5	007.3	311.1	004.0000	0174.4	070.2	46.71
170.0	000.0143	0126.2	007.1	311.1	004.0000	0174.3	070.4	46.63
171.0	000.0137	0125.0	007.0	311.1	004.0000	0174.4	070.6	46.58
172.0	000.0132	0124.7	006.9	311.1	004.0000	0174.5	070.7	46.54
173.0	000.0126	0125.2	006.9	311.0	004.0000	0174.7	070.8	46.50
174.0	000.0121	0127.8	006.9	311.0	004.0000	0174.9	070.9	46.48
175.0	000.0115	0130.4	006.9	310.9	004.0000	0175.0	071.0	46.46
176.0	000.0110	0130.7	006.8	310.9	004.0000	0175.1	071.1	46.42
177.0	000.0105	0128.4	006.7	310.9	004.0000	0175.1	071.3	46.36
178.0	000.0100	0121.4	006.4	311.0	004.0000	0174.9	071.6	46.27
179.0	000.0095	0112.2	006.1	311.1	004.0000	0174.5	071.8	46.16
180.0	000.0090	0104.3	005.8	311.2	004.0000	0174.0	072.1	46.05
181.0	000.0090	0097.8	005.6	311.3	004.0000	0173.8	072.3	45.97
182.0	000.0090	0091.2	005.4	311.4	004.0000	0173.5	072.5	45.89
183.0	000.0090	0086.5	005.3	311.4	004.0000	0173.3	072.7	45.83
184.0	000.0090	0082.7	005.2	311.4	004.0000	0173.1	072.8	45.77
185.0	000.0090	0081.5	005.1	311.4	004.0000	0173.2	072.9	45.75
186.0	000.0090	0082.0	005.1	311.4	004.0000	0173.4	073.0	45.73
187.0	000.0090	0082.0	005.1	311.3	004.0000	0173.6	073.1	45.72
188.0	000.0090	0084.2	005.2	311.2	004.0000	0173.9	073.1	45.72
189.0	000.0090	0088.3	005.3	311.1	004.0000	0174.4	073.1	45.74
190.0	000.0090	0091.1	005.4	311.0	004.0000	0174.7	073.1	45.74
191.0	000.0089	0091.6	005.4	311.0	004.0000	0174.8	073.2	45.72
192.0	000.0088	0090.7	005.4	311.0	004.0000	0174.8	073.3	45.69
193.0	000.0086	0090.5	005.4	311.0	004.0000	0174.9	073.4	45.66
194.0	000.0085	0091.4	005.4	310.9	004.0000	0175.0	073.5	45.64

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     08-25-2008    USGS 03 SEC Terrain Data


     WERS         BLED19900706KB              1211549
     Channel = 205B1                          Channel =  204A
     Max ERP = 4 kW                           Max ERP = 0.24 kW
     RCAMSL =  203 M                          RCAMSL =  269 M
     N. Lat. 42 21 08.0                       N. Lat. 42 49 46.8
     W. Lng. 71 03 25.0                       W. Lng. 71 43 14.8
     Protected                                Interfering
        60  dBu                                  54  dBu



  Azimuth     ERP     HAAT    Dist  | Azimuth     ERP     HAAT    Dist    Actual
 (degrees)   (kW)     (m)     (km)  |(degrees)   (kW)     (m)     (km)    (dBu)
 -----------------------------------|------------------------------------------
 255.0   004.0000   0166.7   032.6 | 159.4   000.0233   0158.7   065.6   25.12
 256.0   004.0000   0169.2   032.8 | 159.6   000.0232   0157.5   065.1   25.22
 257.0   004.0000   0170.0   032.9 | 159.6   000.0232   0157.4   064.5   25.41
 258.0   004.0000   0168.5   032.8 | 159.4   000.0234   0159.0   063.9   25.72
 259.0   004.0000   0166.2   032.5 | 159.1   000.0237   0161.0   063.4   26.06
 260.0   004.0000   0165.2   032.4 | 158.9   000.0240   0162.2   062.9   26.35
 261.0   004.0000   0165.5   032.5 | 158.9   000.0240   0162.7   062.3   26.58
 262.0   004.0000   0167.8   032.7 | 159.0   000.0239   0162.1   061.7   26.74
 263.0   004.0000   0170.0   032.9 | 159.0   000.0238   0161.5   061.1   26.91
 264.0   004.0000   0172.1   033.1 | 159.1   000.0238   0161.2   060.5   27.10
 265.0   004.0000   0174.2   033.3 | 159.1   000.0237   0160.9   059.9   27.30
 266.0   004.0000   0176.2   033.5 | 159.2   000.0237   0160.8   059.2   27.51
 267.0   004.0000   0179.7   033.8 | 159.3   000.0235   0159.8   058.6   27.67
 268.0   004.0000   0184.7   034.3 | 159.5   000.0233   0158.1   057.9   27.79
 269.0   004.0000   0187.0   034.5 | 159.5   000.0233   0158.2   057.3   28.03
 270.0   004.0000   0188.2   034.6 | 159.4   000.0234   0159.0   056.7   28.32
 271.0   004.0000   0189.5   034.7 | 159.3   000.0235   0159.8   056.1   28.62
 272.0   004.0000   0191.0   034.8 | 159.2   000.0237   0160.7   055.4   28.92
 273.0   004.0000   0192.4   034.9 | 159.0   000.0238   0161.6   054.8   29.22
 274.0   004.0000   0194.4   035.1 | 158.9   000.0240   0162.3   054.2   29.52
 275.0   004.0000   0195.9   035.2 | 158.8   000.0242   0163.2   053.6   29.83
 276.0   004.0000   0196.7   035.3 | 158.5   000.0244   0164.4   053.0   30.17
 277.0   004.0000   0197.0   035.3 | 158.2   000.0248   0165.8   052.5   30.51
 278.0   004.0000   0196.6   035.3 | 157.9   000.0252   0167.0   051.9   30.85
 279.0   004.0000   0195.1   035.1 | 157.4   000.0258   0167.9   051.5   31.17
 280.0   004.0000   0193.0   035.0 | 156.9   000.0265   0168.7   051.1   31.48
 281.0   004.0000   0190.7   034.8 | 156.3   000.0272   0169.7   050.7   31.80
 282.0   004.0000   0189.0   034.6 | 155.8   000.0279   0170.8   050.2   32.12
 283.0   004.0000   0187.5   034.5 | 155.3   000.0286   0172.2   049.8   32.45
 284.0   004.0000   0185.9   034.4 | 154.7   000.0293   0173.2   049.5   32.76
 285.0   004.0000   0182.8   034.1 | 154.0   000.0302   0173.4   049.2   33.02
 286.0   004.0000   0179.9   033.9 | 153.4   000.0311   0171.2   048.9   33.15
 287.0   004.0000   0179.0   033.8 | 152.8   000.0319   0168.2   048.5   33.25
 288.0   004.0000   0177.7   033.7 | 152.2   000.0327   0165.1   048.2   33.34
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Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
289.0	004.0000	0175.9	033.5	151.6	000.0336	0162.5	047.9	33.44
290.0	004.0000	0174.8	033.4	151.0	000.0345	0160.5	047.6	33.57
291.0	004.0000	0173.3	033.2	150.3	000.0354	0158.0	047.3	33.67
292.0	004.0000	0171.5	033.1	149.7	000.0366	0155.6	047.1	33.77
293.0	004.0000	0171.2	033.0	149.1	000.0377	0154.1	046.8	33.95
294.0	004.0000	0171.1	033.0	148.5	000.0388	0153.1	046.4	34.16
295.0	004.0000	0170.8	033.0	147.9	000.0400	0152.1	046.1	34.36
296.0	004.0000	0170.6	033.0	147.3	000.0412	0151.0	045.9	34.55
297.0	004.0000	0170.2	032.9	146.6	000.0425	0149.4	045.6	34.71
298.0	004.0000	0170.1	032.9	146.0	000.0438	0147.0	045.3	34.83
299.0	004.0000	0169.6	032.9	145.3	000.0452	0143.4	045.1	34.87
300.0	004.0000	0168.7	032.8	144.6	000.0467	0139.6	044.9	34.88
301.0	004.0000	0167.3	032.7	143.9	000.0483	0137.0	044.8	34.93
302.0	004.0000	0166.8	032.6	143.2	000.0498	0134.9	044.7	35.02
303.0	004.0000	0166.4	032.6	142.5	000.0514	0133.0	044.5	35.12
304.0	004.0000	0165.3	032.4	141.7	000.0530	0132.5	044.4	35.26
305.0	004.0000	0166.3	032.5	141.1	000.0545	0132.4	044.2	35.48
306.0	004.0000	0168.7	032.8	140.4	000.0560	0131.5	043.8	35.71
307.0	004.0000	0171.6	033.1	139.8	000.0576	0130.2	043.4	35.95
308.0	004.0000	0174.7	033.4	139.1	000.0596	0129.8	043.0	36.25
309.0	004.0000	0175.9	033.5	138.4	000.0619	0129.0	042.7	36.46
310.0	004.0000	0176.3	033.5	137.6	000.0643	0127.8	042.6	36.60
311.0	004.0000	0174.8	033.4	136.8	000.0668	0127.0	042.7	36.70
312.0	004.0000	0170.6	033.0	136.0	000.0694	0126.9	043.0	36.71
313.0	004.0000	0167.4	032.7	135.2	000.0720	0127.7	043.3	36.79
314.0	004.0000	0166.6	032.6	134.5	000.0745	0127.9	043.4	36.92
315.0	004.0000	0168.5	032.8	133.7	000.0771	0127.4	043.2	37.12
316.0	004.0000	0172.0	033.1	132.9	000.0798	0127.4	042.9	37.41
317.0	004.0000	0174.2	033.3	132.1	000.0826	0128.2	042.7	37.68
318.0	004.0000	0174.8	033.4	131.3	000.0854	0129.8	042.7	37.92
319.0	004.0000	0174.7	033.4	130.6	000.0882	0132.8	042.8	38.19
320.0	004.0000	0177.3	033.6	129.7	000.0915	0136.9	042.6	38.64
321.0	004.0000	0182.2	034.1	128.8	000.0958	0140.9	042.3	39.19
322.0	004.0000	0185.1	034.3	128.0	000.1000	0143.6	042.2	39.57
323.0	004.0000	0185.8	034.4	127.2	000.1040	0145.5	042.3	39.80
324.0	004.0000	0186.0	034.4	126.4	000.1080	0146.2	042.5	39.93
325.0	004.0000	0185.1	034.3	125.7	000.1118	0146.9	042.7	40.00
326.0	004.0000	0188.0	034.5	124.8	000.1163	0147.1	042.7	40.20
327.0	004.0000	0188.6	034.6	124.0	000.1205	0147.6	042.9	40.30
328.0	004.0000	0188.1	034.6	123.3	000.1244	0148.2	043.2	40.35
329.0	004.0000	0186.1	034.4	122.7	000.1279	0149.1	043.6	40.33
330.0	004.0000	0184.7	034.3	122.0	000.1314	0150.5	044.0	40.36
331.0	004.0000	0183.4	034.2	121.4	000.1349	0152.1	044.3	40.39
332.0	004.0000	0181.7	034.0	120.9	000.1381	0153.3	044.8	40.38
333.0	004.0000	0179.9	033.9	120.3	000.1413	0154.4	045.2	40.34
334.0	004.0000	0178.4	033.7	119.8	000.1447	0155.5	045.6	40.33
335.0	004.0000	0178.0	033.7	119.2	000.1491	0156.1	046.0	40.33
336.0	004.0000	0178.3	033.7	118.6	000.1537	0156.4	046.3	40.35
337.0	004.0000	0179.7	033.8	117.9	000.1589	0156.6	046.6	40.39
338.0	004.0000	0180.4	033.9	117.3	000.1637	0157.4	046.9	40.43
339.0	004.0000	0179.2	033.8	116.9	000.1673	0158.0	047.4	40.37

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
340.0	004.0000	0177.2	033.6	116.5	000.1703	0158.5	047.9	40.26
341.0	004.0000	0175.4	033.4	116.1	000.1733	0159.1	048.5	40.17
342.0	004.0000	0174.4	033.3	115.7	000.1766	0159.7	049.0	40.09
343.0	004.0000	0174.3	033.3	115.3	000.1804	0160.0	049.4	40.03
344.0	004.0000	0174.9	033.4	114.8	000.1846	0160.5	049.8	40.00
345.0	004.0000	0175.7	033.5	114.3	000.1888	0161.4	050.2	40.00
346.0	004.0000	0175.8	033.5	113.8	000.1925	0162.4	050.6	39.95
347.0	004.0000	0177.7	033.7	113.3	000.1973	0163.7	051.0	39.99
348.0	004.0000	0178.2	033.7	112.9	000.2010	0164.9	051.4	39.95
349.0	004.0000	0179.2	033.8	112.4	000.2051	0166.0	051.9	39.93
350.0	004.0000	0180.6	033.9	111.9	000.2093	0167.3	052.3	39.91
351.0	004.0000	0183.7	034.2	111.3	000.2146	0169.0	052.7	39.97
352.0	004.0000	0187.7	034.5	110.7	000.2205	0171.4	053.0	40.06
353.0	004.0000	0188.2	034.6	110.3	000.2237	0172.6	053.5	39.99
354.0	004.0000	0187.3	034.5	110.1	000.2257	0173.5	054.1	39.86
355.0	004.0000	0185.6	034.3	110.0	000.2271	0174.1	054.7	39.68
356.0	004.0000	0183.4	034.2	109.9	000.2283	0174.5	055.3	39.48
357.0	004.0000	0182.1	034.1	109.8	000.2301	0175.1	055.9	39.33
358.0	004.0000	0180.6	033.9	109.6	000.2315	0175.6	056.5	39.15
359.0	004.0000	0180.4	033.9	109.4	000.2342	0176.6	057.1	39.03
000.0	004.0000	0180.4	033.9	109.2	000.2369	0177.4	057.6	38.91
001.0	004.0000	0178.9	033.8	109.2	000.2377	0177.6	058.2	38.71
002.0	004.0000	0177.9	033.7	109.1	000.2389	0177.9	058.8	38.53
003.0	004.0000	0177.9	033.7	108.9	000.2400	0178.5	059.4	38.37
004.0	004.0000	0179.8	033.8	108.6	000.2400	0179.7	059.9	38.24
005.0	004.0000	0181.5	034.0	108.3	000.2400	0180.8	060.4	38.09
006.0	004.0000	0180.6	033.9	108.3	000.2400	0181.0	061.0	37.89
007.0	004.0000	0178.4	033.7	108.3	000.2400	0180.8	061.7	37.66
008.0	004.0000	0180.1	033.9	108.1	000.2400	0181.8	062.2	37.51
009.0	004.0000	0182.6	034.1	107.8	000.2400	0183.0	062.8	37.36
010.0	004.0000	0182.6	034.1	107.7	000.2400	0183.3	063.3	37.17
011.0	004.0000	0184.2	034.2	107.5	000.2400	0184.1	063.9	37.01
012.0	004.0000	0185.7	034.4	107.3	000.2400	0184.7	064.5	36.84
013.0	004.0000	0186.4	034.4	107.2	000.2400	0185.0	065.1	36.65
014.0	004.0000	0186.7	034.4	107.2	000.2400	0185.3	065.7	36.46
015.0	004.0000	0186.3	034.4	107.2	000.2400	0185.2	066.3	36.25