

Ex. 12, Pg. #1

Vermont Public Radio
365 Troy Avenue Colchester, VT 05446

Application 631037 Minor Mod - APP258D

Vermont Public Radio

REFERENCE CH# 258D - 99.5 MHz, Pwr= 0.25 kw, HAAT= -120.7 M, COR= 214 M
44 15 17.0 N.
72 34 06.0 W.
Average Protected F(50-50)= 7.09 km
Omni-directional

DISPLAY DATES
DATA 03-21-13
SEARCH 03-25-13

| CH CITY | CALL | TYPE ANT STATE | AZI <-- | DIST FILE # | LAT LNG | PWR(kw) HAAT(M) | INT(km) COR(M) | PRO(km) LICENSEE | *IN* (Overlap in km) | *OUT* |
|-----------------------------|-----------|-------------------|----------------|---------------------------|--------------------------|--------------------|-------------------|------------------------------------|-------------------------|--------|
| 258D Montpelier | 631037 | APP VT | 20.0 200.0 | 0.06 | 44 15 19.0 72 34 05.0 | 0.250 -112 | 23.8 223 | 7.1 User | -30.8* | -30.8* |
| 257D Montpelier | 631037 | APP _C_ VT | 20.0 200.0 | 0.06 BNPFT20030317HKH | 44 15 19.0 72 34 05.0 | 0.250 -112 | 10.1 223 | 7.1 Vermont Public Radio | -17.2* | -17.2* |
| 259D Waitsfield | 647198 | APP _C_ VT | 250.0 69.9 | 22.42 BNPFT20030317HIF | 44 11 08.0 72 49 58.0 | 0.120 -224 | 8.4 258 | 5.9 Vermont Public Radio | 6.9 | 6.4 |
| 258D Newbury | W258AZ | LIC _C_ VT | 123.1 303.4 | 40.77 BLFT20060117ADY | 44 03 13.0 72 08 27.0 | 0.010 115 | 10.2 418 | 3.2 Vermont Public Radio | 23.5 | 13.9 |
| 260C Plattsburgh | WBTZ | LIC DCX NY | 305.1 124.3 | 100.76 BMLH20051013AGS | 44 46 13.9 73 36 48.5 | 100.000 300 | 11.0 550 | 79.4 Hall Communications, Inc. | 82.7 | 20.3 |
| 255C1 Burlington | WOKO | LIC _CN VT | 293.8 113.3 | 54.56 BLH19880920KB | 44 27 03.0 73 11 51.0 | 100.000 94 | 3.2 189 | 31.0 Hall Communications, Inc. | 44.3 | 22.5 |
| 257A Hanover | WFRD | LIC NCX NH | 161.8 342.0 | 70.27 BLH20061031ACI | 43 39 14.0 72 17 44.2 | 6.000 100 | 39.2 374 | 25.5 Trustees Of Dartmouth Coll | 24.0 | 34.6 |
| 258D Middlebury | W258AW | LIC _C_ VT | 240.7 60.3 | 55.89 BLFT20050930BII | 44 00 25.0 73 10 40.0 | 0.038 -17 | 14.0 148 | 4.4 Vermont Public Radio | 34.8 | 27.8 |
| 205D Newbury | W258AZ-TO | CP VT | 123.1 303.4 | 40.77 | 44 03 13.0 72 08 27.0 | 0.250 119 | 2.0 422 | 12.5 User | 9.5R | 31.3M |
| 205D Newbury | W258AZ | CP _C_ VT | 123.1 303.4 | 40.77 BPFT20130124AGY | 44 03 13.0 72 08 27.0 | 0.250 | 2.0 418 | 12.5 Vermont Public Radio | 9.5R | 31.3M |
| 257D St. Johnsbury, Etc. | W257AU | LIC _HN VT | 69.8 250.2 | 50.61 BLFT19890227TO | 44 24 38.0 71 58 13.0 | 0.005 196 | 10.2 532 | 7.1 Harvest Broadcasting Assn. | 33.4 | 33.4 |
| 258A Jackson | WEVJ | LIC _CX NH | 94.1 275.0 | 111.88 BMLD20040706AAT | 44 10 30.0 71 10 07.0 | 4.700 52 | 62.6 614 | 14.8 New Hampshire Public Radio | 42.2 | 73.4 |
| 204A Colchester | WWPV-FM | LIC _CN VT | 299.5 119.1 | 54.30 BLED19830204AB | 44 29 38.0 73 09 51.0 | 0.100 25 | 2.0 123 | 12.5 Saint Michael's College | 9.5R | 44.8M |
| 258B Montréal | CJPX-FM« | OP _HN QC | 330.3 149.5 | 160.77 6479 | 45 30 20.0 73 35 30.0 | 8.700 296 | 148.7 331 | 63.1 Cjpx-fm | 111.5R | 49.3M |

Terrain database is FCC NGDC 30 Sec , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
Contour distances are on direct line to and from reference station. Reference zone= East Zone, Co to 3rd adjacent.
All separation margins (if shown) include rounding
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
"*"affixed to 'IN' or 'OUT' values = site inside protected contour.
« = Station meets FCC minimum distance spacing for its class.

HOW TO READ THE FM COMPUTER PRINT-OUT

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. The 60 dBu protected contour is predicted from the Commission's F(50-50) table, while the 40, 54, 80 and 100 dBu contours are interference contours derived from the Commission's F(50-10) table. Contour distances are in kilometers and are predicted using spline interpolation from data points identical to those published in Report No. RS 76-01 by Gary C. Kalagian. Critical contour distances are determined 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 sum of the reference station's 60 dBu protected contour and the data file station's interference contour subtracted from the distance between the stations. (All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90.) Therefore, the column is a measure of incoming interference. Negative distances in this column indicate the presence of interference. Listed antenna heights are the average heights of eight standard radials as found in the Commission's records unless otherwise noted, in which case the specific antenna heights and the DA power, if applicable, along the straight line azimuths between the reference station and the database station are used and visa versa. The column labeled "** OUT *" shows the distance in kilometers of overlap or clearance between the reference station's interference contour and the database station's protected contour. Negative distance figures in this column indicate outgoing overlap interference.

Under the "AZIMUTH" column, the first row of numbers indicate the bearings from True North of the data base stations in relationship with the reference station, while the numbers in the second row indicate the reverse bearings from the database station to the reference station.

The columns labeled "INT" and "PRO" hold the distance in kilometers of the appropriate interference contour and the protected contour of a data base station.

For I.F. relationships the "IN" and "OUT" columns 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** separation 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 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 omni. 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".

Ex. 12, Pg. #3

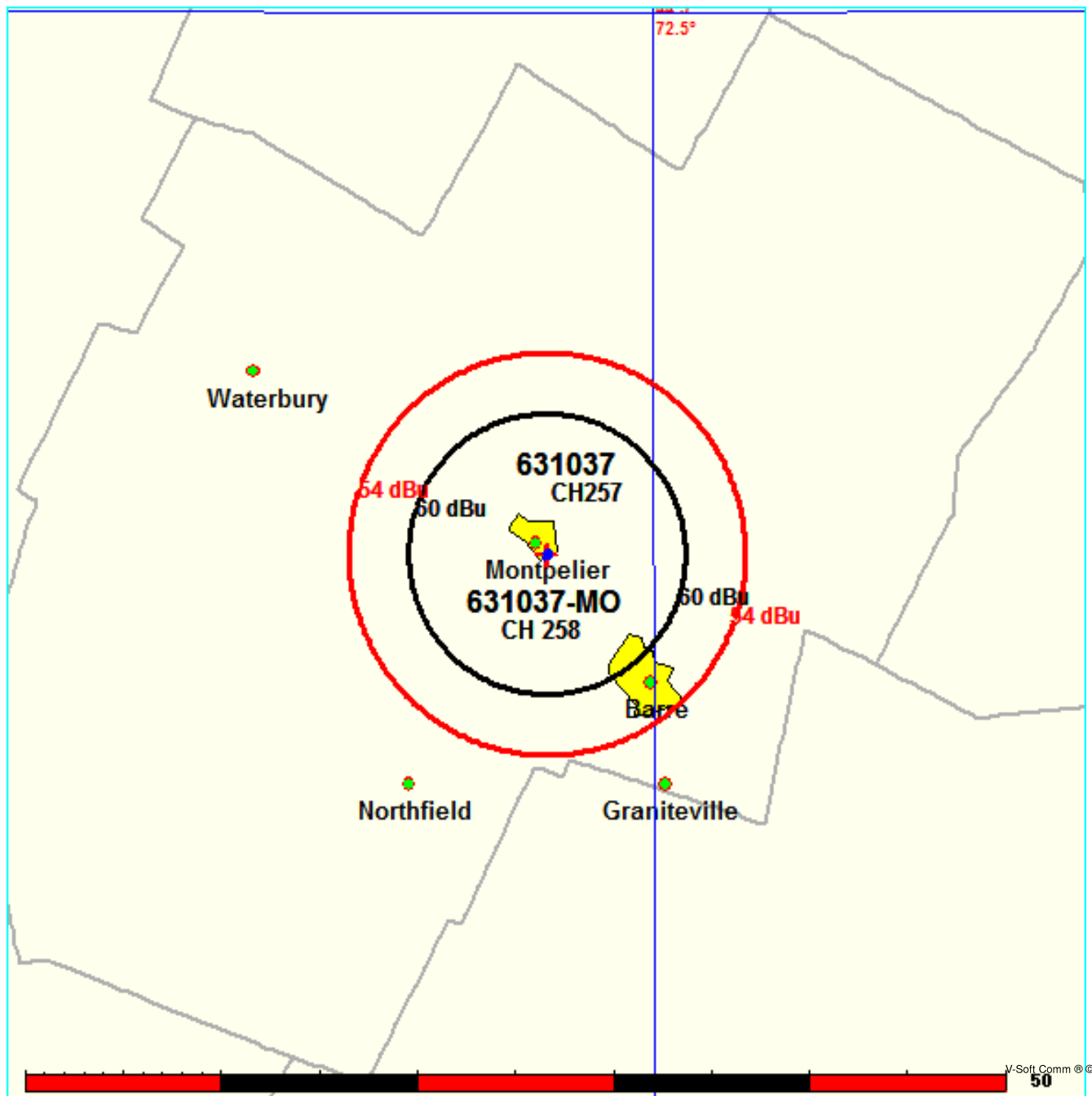
Application 631037 Minor Change - APP258D
Vermont Public Radio

Contours of original text box app and proposed
minor modification - they are essentially identical

FMCommander Single Allocation Study - 03-23-2013 - FCC NGDC 30 Sec
631037-MO's Overlaps (In= -17.17 km, Out= -17.17 km)

631037-MO CH 258 D
Lat= 44 15 17.0, Lng= 72 34 06.0
0.25 kW -120.7 M HAAT, 214 M COR
Prot.= 60 dBu, Intef.= 54 dBu

631037 CH 257 D BNPFT20030317HKH
Lat= 44 15 19.0, Lng= 72 34 05.0
0.25 kW -111.6 M HAAT, 223 M COR
Prot.= 60 dBu, Intef.= 54 dBu



Ex. 12, Pg. #4

Application 631037 Minor Mod_to_647198 Waitsfield_3-25-13
Vermont Public Radio

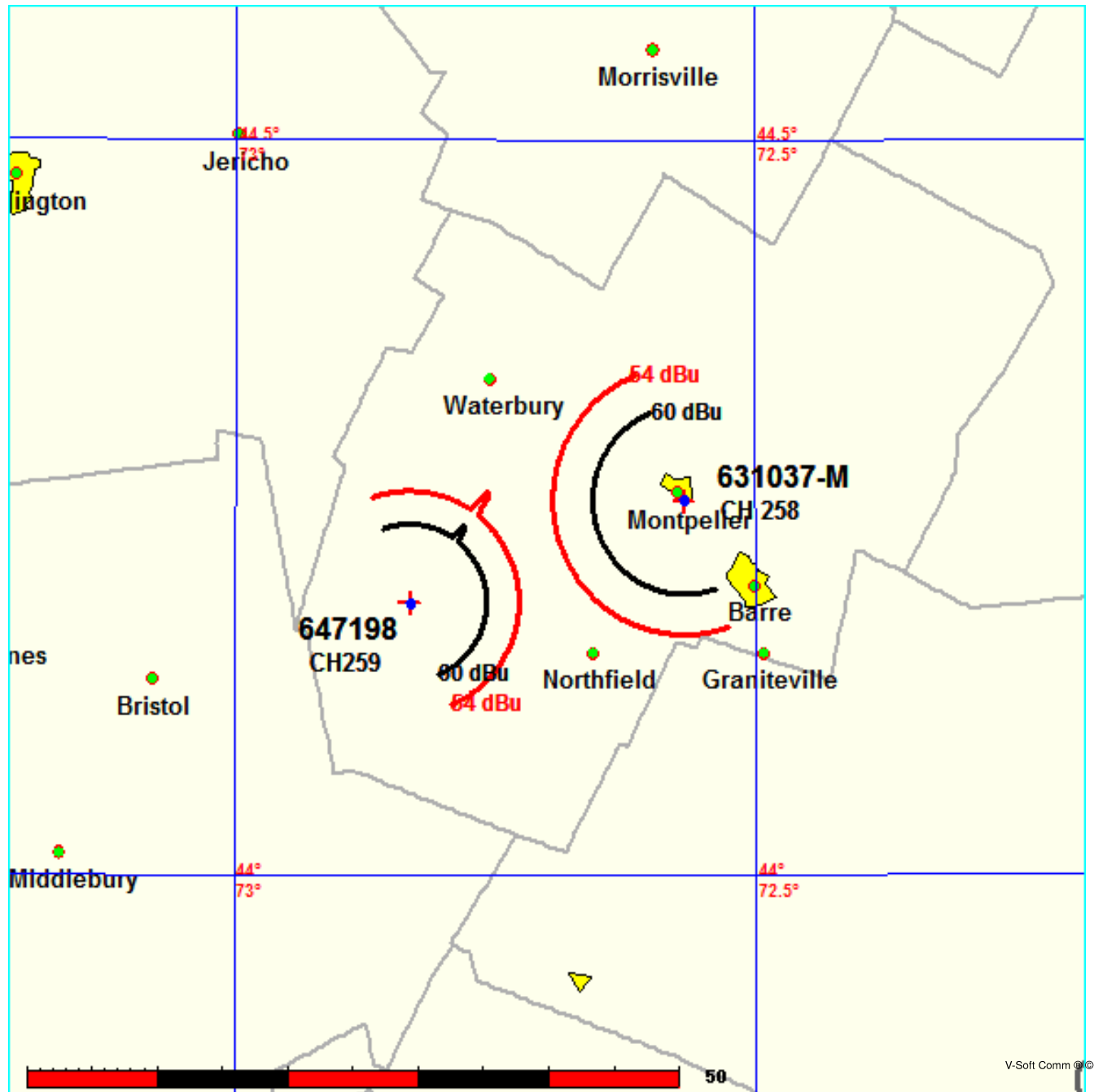
FMCommander Single Allocation Study - 03-25-2013 - FCC NGDC 30 Sec
631037-M's Overlaps (In= 6.94 km, Out= 6.38 km)

631037-M CH 258 D

Lat= 44 15 17.0, Lng= 72 34 06.0
0.25 kW -120.7 M HAAT, 214 M COR
Prot.= 60 dBu, Intef.= 54 dBu

647198 CH 259 D BNPFT20030317HIF

Lat= 44 11 08.0, Lng= 72 49 58.0
0.12 kW -223.9 M HAAT, 258 M COR
Prot.= 60 dBu, Intef.= 54 dBu



Ex. 12, Pg. #5

03-20-2013

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

631037-VCfa - Montpelier APP258D - Mod

647198 BNPFT20030317HIF

VPR Waitsfield Auc83 Application

Channel = 258D

Max ERP = 0.25 kW

RCAMSL = 214 M

N. Lat. 44 15 17.0

W. Lng. 72 34 06.0

Protected

60 dBu

Channel = 259D

Max ERP = 0.12 kW

RCAMSL = 258 M

N. Lat. 44 11 08.0

W. Lng. 72 49 58.0

Interfering

54 dBu

| Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Actual (dBu) | IX (km) |
|----------------------|-------------|-------------|--------------|----------------------|-------------|-------------|--------------|-----------------|------------|
| 190.0 | 000.2500 | -0158.8 | 007.1 | 087.9 | 000.1200 | -0138.7 | 019.9 | 39.75 | |
| 191.0 | 000.2500 | -0148.6 | 007.1 | 087.8 | 000.1200 | -0138.5 | 019.7 | 39.85 | |
| 192.0 | 000.2500 | -0143.7 | 007.1 | 087.7 | 000.1200 | -0138.3 | 019.6 | 39.94 | |
| 193.0 | 000.2500 | -0147.7 | 007.1 | 087.6 | 000.1200 | -0138.0 | 019.5 | 40.04 | |
| 194.0 | 000.2500 | -0160.3 | 007.1 | 087.5 | 000.1200 | -0137.7 | 019.4 | 40.13 | |
| 195.0 | 000.2500 | -0179.2 | 007.1 | 087.4 | 000.1200 | -0137.3 | 019.3 | 40.23 | |
| 196.0 | 000.2500 | -0199.3 | 007.1 | 087.3 | 000.1200 | -0136.8 | 019.2 | 40.32 | |
| 197.0 | 000.2500 | -0219.0 | 007.1 | 087.2 | 000.1200 | -0136.5 | 019.0 | 40.42 | |
| 198.0 | 000.2500 | -0236.7 | 007.1 | 087.1 | 000.1200 | -0136.2 | 018.9 | 40.51 | |
| 199.0 | 000.2500 | -0251.4 | 007.1 | 086.9 | 000.1200 | -0136.0 | 018.8 | 40.61 | |
| 200.0 | 000.2500 | -0260.6 | 007.1 | 086.8 | 000.1200 | -0135.8 | 018.7 | 40.70 | |
| 201.0 | 000.2500 | -0263.5 | 007.1 | 086.6 | 000.1200 | -0135.7 | 018.6 | 40.79 | |
| 202.0 | 000.2500 | -0260.6 | 007.1 | 086.5 | 000.1200 | -0135.8 | 018.5 | 40.88 | |
| 203.0 | 000.2500 | -0252.3 | 007.1 | 086.3 | 000.1200 | -0136.1 | 018.4 | 40.97 | |
| 204.0 | 000.2500 | -0239.4 | 007.1 | 086.1 | 000.1200 | -0136.6 | 018.2 | 41.06 | |
| 205.0 | 000.2500 | -0221.5 | 007.1 | 085.9 | 000.1200 | -0137.3 | 018.1 | 41.15 | |
| 206.0 | 000.2500 | -0200.4 | 007.1 | 085.7 | 000.1200 | -0137.9 | 018.0 | 41.24 | |
| 207.0 | 000.2500 | -0178.3 | 007.1 | 085.5 | 000.1200 | -0138.6 | 017.9 | 41.33 | |
| 208.0 | 000.2500 | -0157.5 | 007.1 | 085.3 | 000.1200 | -0139.1 | 017.8 | 41.42 | |
| 209.0 | 000.2500 | -0139.2 | 007.1 | 085.1 | 000.1200 | -0139.6 | 017.7 | 41.50 | |
| 210.0 | 000.2500 | -0124.3 | 007.1 | 084.9 | 000.1200 | -0139.9 | 017.6 | 41.59 | |
| 211.0 | 000.2500 | -0112.4 | 007.1 | 084.6 | 000.1200 | -0140.2 | 017.5 | 41.67 | |
| 212.0 | 000.2500 | -0101.8 | 007.1 | 084.4 | 000.1200 | -0140.5 | 017.4 | 41.75 | |
| 213.0 | 000.2500 | -0091.8 | 007.1 | 084.2 | 000.1200 | -0140.8 | 017.3 | 41.83 | |
| 214.0 | 000.2500 | -0084.0 | 007.1 | 083.9 | 000.1200 | -0141.4 | 017.2 | 41.91 | |
| 215.0 | 000.2500 | -0081.1 | 007.1 | 083.6 | 000.1200 | -0141.8 | 017.1 | 41.99 | |
| 216.0 | 000.2500 | -0079.7 | 007.1 | 083.3 | 000.1200 | -0141.9 | 017.0 | 42.07 | |
| 217.0 | 000.2500 | -0077.4 | 007.1 | 083.1 | 000.1200 | -0141.9 | 016.9 | 42.15 | |
| 218.0 | 000.2500 | -0074.5 | 007.1 | 082.8 | 000.1200 | -0142.0 | 016.9 | 42.22 | |
| 219.0 | 000.2500 | -0073.0 | 007.1 | 082.5 | 000.1200 | -0142.1 | 016.8 | 42.29 | |
| 220.0 | 000.2500 | -0073.5 | 007.1 | 082.2 | 000.1200 | -0142.2 | 016.7 | 42.36 | |
| 221.0 | 000.2500 | -0074.5 | 007.1 | 081.8 | 000.1200 | -0142.5 | 016.6 | 42.43 | |
| 222.0 | 000.2500 | -0073.3 | 007.1 | 081.5 | 000.1200 | -0143.0 | 016.5 | 42.50 | |
| 223.0 | 000.2500 | -0070.4 | 007.1 | 081.2 | 000.1200 | -0143.3 | 016.4 | 42.57 | |
| 224.0 | 000.2500 | -0068.5 | 007.1 | 080.8 | 000.1200 | -0143.4 | 016.4 | 42.63 | |
| 225.0 | 000.2500 | -0068.8 | 007.1 | 080.5 | 000.1200 | -0143.4 | 016.3 | 42.69 | |

| Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Actual (dBu) |
|----------------------|-------------|-------------|--------------|----------------------|-------------|-------------|--------------|-----------------|
| 226.0 | 000.2500 | -0072.3 | 007.1 | 080.1 | 000.1200 | -0143.6 | 016.2 | 42.75 |
| 227.0 | 000.2500 | -0077.4 | 007.1 | 079.8 | 000.1200 | -0143.9 | 016.2 | 42.81 |
| 228.0 | 000.2500 | -0082.8 | 007.1 | 079.4 | 000.1200 | -0144.4 | 016.1 | 42.87 |
| 229.0 | 000.2500 | -0087.1 | 007.1 | 079.0 | 000.1200 | -0144.9 | 016.0 | 42.92 |
| 230.0 | 000.2500 | -0088.9 | 007.1 | 078.6 | 000.1200 | -0145.1 | 016.0 | 42.97 |
| 231.0 | 000.2500 | -0090.3 | 007.1 | 078.2 | 000.1200 | -0145.0 | 015.9 | 43.02 |
| 232.0 | 000.2500 | -0093.0 | 007.1 | 077.8 | 000.1200 | -0144.8 | 015.9 | 43.07 |
| 233.0 | 000.2500 | -0098.5 | 007.1 | 077.4 | 000.1200 | -0144.6 | 015.8 | 43.11 |
| 234.0 | 000.2500 | -0105.9 | 007.1 | 077.0 | 000.1200 | -0144.9 | 015.8 | 43.16 |
| 235.0 | 000.2500 | -0113.7 | 007.1 | 076.6 | 000.1200 | -0145.8 | 015.7 | 43.20 |
| 236.0 | 000.2500 | -0121.1 | 007.1 | 076.2 | 000.1200 | -0147.0 | 015.7 | 43.23 |
| 237.0 | 000.2500 | -0128.7 | 007.1 | 075.8 | 000.1200 | -0148.5 | 015.6 | 43.27 |
| 238.0 | 000.2500 | -0137.1 | 007.1 | 075.3 | 000.1200 | -0150.3 | 015.6 | 43.30 |
| 239.0 | 000.2500 | -0146.6 | 007.1 | 074.9 | 000.1200 | -0152.8 | 015.6 | 43.33 |
| 240.0 | 000.2500 | -0155.8 | 007.1 | 074.4 | 000.1200 | -0156.1 | 015.5 | 43.36 |
| 241.0 | 000.2500 | -0163.0 | 007.1 | 074.0 | 000.1200 | -0159.9 | 015.5 | 43.39 |
| 242.0 | 000.2500 | -0167.8 | 007.1 | 073.6 | 000.1200 | -0163.3 | 015.5 | 43.41 |
| 243.0 | 000.2500 | -0171.7 | 007.1 | 073.1 | 000.1200 | -0166.4 | 015.4 | 43.43 |
| 244.0 | 000.2500 | -0176.4 | 007.1 | 072.7 | 000.1200 | -0169.2 | 015.4 | 43.45 |
| 245.0 | 000.2500 | -0183.7 | 007.1 | 072.2 | 000.1200 | -0171.7 | 015.4 | 43.46 |
| 246.0 | 000.2500 | -0191.9 | 007.1 | 071.7 | 000.1200 | -0173.7 | 015.4 | 43.47 |
| 247.0 | 000.2500 | -0199.6 | 007.1 | 071.3 | 000.1200 | -0175.0 | 015.4 | 43.48 |
| 248.0 | 000.2500 | -0205.3 | 007.1 | 070.8 | 000.1200 | -0175.8 | 015.4 | 43.49 |
| 249.0 | 000.2500 | -0208.5 | 007.1 | 070.4 | 000.1200 | -0176.2 | 015.4 | 43.50 |
| 250.0 | 000.2500 | -0209.2 | 007.1 | 069.9 | 000.1200 | -0175.9 | 015.4 | 43.50 |
| 251.0 | 000.2500 | -0208.8 | 007.1 | 069.4 | 000.1200 | -0174.6 | 015.4 | 43.50 |
| 252.0 | 000.2500 | -0208.7 | 007.1 | 069.0 | 000.1200 | -0172.3 | 015.4 | 43.49 |
| 253.0 | 000.2500 | -0209.8 | 007.1 | 068.5 | 000.1200 | -0169.9 | 015.4 | 43.48 |
| 254.0 | 000.2500 | -0209.8 | 007.1 | 068.1 | 000.1200 | -0167.3 | 015.4 | 43.47 |
| 255.0 | 000.2500 | -0205.0 | 007.1 | 067.6 | 000.1200 | -0164.4 | 015.4 | 43.46 |
| 256.0 | 000.2500 | -0197.6 | 007.1 | 067.1 | 000.1200 | -0161.6 | 015.4 | 43.45 |
| 257.0 | 000.2500 | -0187.4 | 007.1 | 066.7 | 000.1200 | -0158.8 | 015.4 | 43.43 |
| 258.0 | 000.2500 | -0176.0 | 007.1 | 066.2 | 000.1200 | -0155.9 | 015.5 | 43.41 |
| 259.0 | 000.2500 | -0165.5 | 007.1 | 065.8 | 000.1200 | -0153.3 | 015.5 | 43.39 |
| 260.0 | 000.2500 | -0154.9 | 007.1 | 065.3 | 000.1200 | -0151.3 | 015.5 | 43.36 |
| 261.0 | 000.2500 | -0145.8 | 007.1 | 064.9 | 000.1200 | -0150.3 | 015.6 | 43.33 |
| 262.0 | 000.2500 | -0138.1 | 007.1 | 064.5 | 000.1200 | -0150.1 | 015.6 | 43.30 |
| 263.0 | 000.2500 | -0129.4 | 007.1 | 064.0 | 000.1200 | -0150.9 | 015.6 | 43.27 |
| 264.0 | 000.2500 | -0121.6 | 007.1 | 063.6 | 000.1200 | -0152.2 | 015.7 | 43.23 |
| 265.0 | 000.2500 | -0116.1 | 007.1 | 063.2 | 000.1200 | -0154.0 | 015.7 | 43.20 |
| 266.0 | 000.2500 | -0109.3 | 007.1 | 062.8 | 000.1200 | -0156.2 | 015.8 | 43.15 |
| 267.0 | 000.2500 | -0102.2 | 007.1 | 062.4 | 000.1200 | -0158.8 | 015.8 | 43.11 |
| 268.0 | 000.2500 | -0097.7 | 007.1 | 062.0 | 000.1200 | -0161.2 | 015.9 | 43.07 |
| 269.0 | 000.2500 | -0096.9 | 007.1 | 061.6 | 000.1200 | -0163.2 | 015.9 | 43.02 |
| 270.0 | 000.2500 | -0096.6 | 007.1 | 061.2 | 000.1200 | -0164.4 | 016.0 | 42.97 |
| 271.0 | 000.2500 | -0096.4 | 007.1 | 060.8 | 000.1200 | -0164.8 | 016.0 | 42.92 |
| 272.0 | 000.2500 | -0096.5 | 007.1 | 060.4 | 000.1200 | -0164.5 | 016.1 | 42.86 |
| 273.0 | 000.2500 | -0094.5 | 007.1 | 060.0 | 000.1200 | -0163.3 | 016.2 | 42.81 |
| 274.0 | 000.2500 | -0092.7 | 007.1 | 059.7 | 000.1200 | -0161.5 | 016.2 | 42.75 |
| 275.0 | 000.2500 | -0091.0 | 007.1 | 059.3 | 000.1200 | -0159.3 | 016.3 | 42.69 |
| 276.0 | 000.2500 | -0087.5 | 007.1 | 059.0 | 000.1200 | -0156.8 | 016.4 | 42.63 |

| Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | | Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Actual (dBu) |
|----------------------|-------------|-------------|--------------|--|----------------------|-------------|-------------|--------------|-----------------|
| 277.0 | 000.2500 | -0085.2 | 007.1 | | 058.6 | 000.1200 | -0154.4 | 016.5 | 42.56 |
| 278.0 | 000.2500 | -0081.5 | 007.1 | | 058.3 | 000.1200 | -0152.3 | 016.5 | 42.50 |
| 279.0 | 000.2500 | -0077.9 | 007.1 | | 057.9 | 000.1200 | -0150.2 | 016.6 | 42.43 |
| 280.0 | 000.2500 | -0074.9 | 007.1 | | 057.6 | 000.1200 | -0148.4 | 016.7 | 42.36 |
| 281.0 | 000.2500 | -0068.6 | 007.1 | | 057.3 | 000.1200 | -0146.6 | 016.8 | 42.29 |
| 282.0 | 000.2500 | -0060.2 | 007.1 | | 057.0 | 000.1200 | -0145.2 | 016.9 | 42.22 |
| 283.0 | 000.2500 | -0049.1 | 007.1 | | 056.7 | 000.1200 | -0144.0 | 017.0 | 42.14 |
| 284.0 | 000.2500 | -0040.2 | 007.1 | | 056.4 | 000.1200 | -0142.7 | 017.0 | 42.07 |
| 285.0 | 000.2500 | -0033.3 | 007.1 | | 056.2 | 000.1200 | -0141.6 | 017.1 | 41.99 |
| 286.0 | 000.2500 | -0025.4 | 007.1 | | 055.9 | 000.1200 | -0140.5 | 017.2 | 41.91 |
| 287.0 | 000.2500 | -0018.2 | 007.1 | | 055.6 | 000.1200 | -0139.3 | 017.3 | 41.83 |
| 288.0 | 000.2500 | -0014.6 | 007.1 | | 055.4 | 000.1200 | -0138.0 | 017.4 | 41.75 |
| 289.0 | 000.2500 | -0015.3 | 007.1 | | 055.1 | 000.1200 | -0136.7 | 017.5 | 41.67 |
| 290.0 | 000.2500 | -0017.6 | 007.1 | | 054.9 | 000.1200 | -0135.3 | 017.6 | 41.58 |
| 291.0 | 000.2500 | -0018.4 | 007.1 | | 054.7 | 000.1200 | -0133.9 | 017.7 | 41.50 |
| 292.0 | 000.2500 | -0016.5 | 007.1 | | 054.4 | 000.1200 | -0132.5 | 017.8 | 41.41 |
| 293.0 | 000.2500 | -0012.7 | 007.1 | | 054.2 | 000.1200 | -0131.3 | 017.9 | 41.33 |
| 294.0 | 000.2500 | -0007.4 | 007.1 | | 054.0 | 000.1200 | -0130.3 | 018.0 | 41.24 |
| 295.0 | 000.2500 | -0001.4 | 007.1 | | 053.8 | 000.1200 | -0129.1 | 018.1 | 41.15 |
| 296.0 | 000.2500 | 0003.9 | 007.1 | | 053.7 | 000.1200 | -0127.8 | 018.3 | 41.06 |
| 297.0 | 000.2500 | 0007.1 | 007.1 | | 053.5 | 000.1200 | -0126.7 | 018.4 | 40.97 |
| 298.0 | 000.2500 | 0008.3 | 007.1 | | 053.3 | 000.1200 | -0125.5 | 018.5 | 40.88 |
| 299.0 | 000.2500 | 0007.1 | 007.1 | | 053.1 | 000.1200 | -0124.4 | 018.6 | 40.79 |
| 300.0 | 000.2500 | 0001.7 | 007.1 | | 053.0 | 000.1200 | -0123.3 | 018.7 | 40.69 |
| 301.0 | 000.2500 | -0007.8 | 007.1 | | 052.8 | 000.1200 | -0122.3 | 018.8 | 40.60 |
| 302.0 | 000.2500 | -0021.2 | 007.1 | | 052.7 | 000.1200 | -0121.3 | 018.9 | 40.51 |
| 303.0 | 000.2500 | -0037.2 | 007.1 | | 052.6 | 000.1200 | -0120.4 | 019.0 | 40.41 |
| 304.0 | 000.2500 | -0053.5 | 007.1 | | 052.5 | 000.1200 | -0119.5 | 019.2 | 40.32 |
| 305.0 | 000.2500 | -0067.6 | 007.1 | | 052.3 | 000.1200 | -0118.6 | 019.3 | 40.22 |
| 306.0 | 000.2500 | -0078.4 | 007.1 | | 052.2 | 000.1200 | -0117.7 | 019.4 | 40.13 |
| 307.0 | 000.2500 | -0087.1 | 007.1 | | 052.1 | 000.1200 | -0116.8 | 019.5 | 40.03 |
| 308.0 | 000.2500 | -0095.0 | 007.1 | | 052.0 | 000.1200 | -0116.0 | 019.6 | 39.94 |
| 309.0 | 000.2500 | -0102.1 | 007.1 | | 052.0 | 000.1200 | -0115.3 | 019.8 | 39.84 |

Ex. 12, Pg. #8

03-20-2013

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

647198 BNPFT20030317HIF

VPR Waitsfield Auc83 Application

Channel = 259D

Max ERP = 0.12 kW

RCAMSL = 258 M

N. Lat. 44 11 08.0

W. Lng. 72 49 58.0

Protected

60 dBu

631037-VCfa - Montpelier APP258D - Mod

Channel = 258D

Max ERP = 0.25 kW

RCAMSL = 214 M

N. Lat. 44 15 17.0

W. Lng. 72 34 06.0

Interfering

54 dBu

| Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Actual (dBu) | IX (km) |
|----------------------|-------------|-------------|--------------|----------------------|-------------|-------------|--------------|-----------------|------------|
| 010.0 | 000.1200 | -0208.5 | 005.9 | 264.7 | 000.2500 | -0117.8 | 020.1 | 42.73 | |
| 011.0 | 000.1200 | -0193.6 | 005.9 | 264.7 | 000.2500 | -0118.2 | 020.0 | 42.81 | |
| 012.0 | 000.1200 | -0174.6 | 005.9 | 264.6 | 000.2500 | -0118.7 | 019.9 | 42.89 | |
| 013.0 | 000.1200 | -0155.2 | 005.9 | 264.5 | 000.2500 | -0119.1 | 019.8 | 42.96 | |
| 014.0 | 000.1200 | -0137.7 | 005.9 | 264.4 | 000.2500 | -0119.6 | 019.7 | 43.04 | |
| 015.0 | 000.1200 | -0120.6 | 005.9 | 264.3 | 000.2500 | -0120.1 | 019.6 | 43.12 | |
| 016.0 | 000.1200 | -0102.8 | 005.9 | 264.2 | 000.2500 | -0120.7 | 019.5 | 43.19 | |
| 017.0 | 000.1200 | -0083.6 | 005.9 | 264.0 | 000.2500 | -0121.4 | 019.5 | 43.27 | |
| 018.0 | 000.1200 | -0066.3 | 005.9 | 263.9 | 000.2500 | -0122.1 | 019.4 | 43.35 | |
| 019.0 | 000.1200 | -0052.8 | 005.9 | 263.8 | 000.2500 | -0122.9 | 019.3 | 43.42 | |
| 020.0 | 000.1200 | -0043.5 | 005.9 | 263.7 | 000.2500 | -0123.9 | 019.2 | 43.50 | |
| 021.0 | 000.1200 | -0038.3 | 005.9 | 263.5 | 000.2500 | -0124.9 | 019.1 | 43.57 | |
| 022.0 | 000.1200 | -0036.1 | 005.9 | 263.4 | 000.2500 | -0126.1 | 019.0 | 43.64 | |
| 023.0 | 000.1200 | -0034.3 | 005.9 | 263.2 | 000.2500 | -0127.5 | 018.9 | 43.72 | |
| 024.0 | 000.1200 | -0031.7 | 005.9 | 263.1 | 000.2500 | -0128.9 | 018.8 | 43.79 | |
| 025.0 | 000.1200 | -0030.6 | 005.9 | 262.9 | 000.2500 | -0130.3 | 018.7 | 43.86 | |
| 026.0 | 000.1200 | -0032.2 | 005.9 | 262.7 | 000.2500 | -0131.8 | 018.6 | 43.93 | |
| 027.0 | 000.1200 | -0034.3 | 005.9 | 262.5 | 000.2500 | -0133.3 | 018.6 | 44.00 | |
| 028.0 | 000.1200 | -0032.3 | 005.9 | 262.4 | 000.2500 | -0134.9 | 018.5 | 44.07 | |
| 029.0 | 000.1200 | -0026.8 | 005.9 | 262.2 | 000.2500 | -0136.6 | 018.4 | 44.14 | |
| 030.0 | 000.1200 | -0018.1 | 005.9 | 262.0 | 000.2500 | -0138.3 | 018.3 | 44.20 | |
| 031.0 | 000.1200 | -0007.1 | 005.9 | 261.8 | 000.2500 | -0140.1 | 018.2 | 44.27 | |
| 032.0 | 000.1200 | 0005.5 | 005.9 | 261.6 | 000.2500 | -0141.8 | 018.1 | 44.33 | |
| 033.0 | 000.1200 | 0018.4 | 005.9 | 261.4 | 000.2500 | -0143.3 | 018.1 | 44.40 | |
| 034.0 | 000.1200 | 0030.3 | 005.9 | 261.2 | 000.2500 | -0144.5 | 018.0 | 44.47 | |
| 035.0 | 000.1200 | 0040.1 | 006.8 | 262.9 | 000.2500 | -0129.9 | 017.3 | 45.01 | |
| 036.0 | 000.1200 | 0044.7 | 007.1 | 263.6 | 000.2500 | -0124.0 | 017.0 | 45.31 | |
| 037.0 | 000.1200 | 0041.9 | 006.9 | 262.8 | 000.2500 | -0131.5 | 017.1 | 45.24 | |
| 038.0 | 000.1200 | 0034.0 | 006.2 | 260.9 | 000.2500 | -0146.3 | 017.5 | 44.91 | |
| 039.0 | 000.1200 | 0024.8 | 005.9 | 259.9 | 000.2500 | -0155.5 | 017.6 | 44.76 | |
| 040.0 | 000.1200 | 0016.2 | 005.9 | 259.7 | 000.2500 | -0158.3 | 017.6 | 44.81 | |
| 041.0 | 000.1200 | 0008.3 | 005.9 | 259.4 | 000.2500 | -0161.1 | 017.5 | 44.86 | |
| 042.0 | 000.1200 | -0001.1 | 005.9 | 259.2 | 000.2500 | -0164.0 | 017.4 | 44.92 | |

| Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Actual (dBu) |
|----------------------|-------------|-------------|--------------|----------------------|-------------|-------------|--------------|-----------------|
| 043.0 | 000.1200 | -0012.6 | 005.9 | 258.9 | 000.2500 | -0166.7 | 017.4 | 44.97 |
| 044.0 | 000.1200 | -0026.5 | 005.9 | 258.6 | 000.2500 | -0169.5 | 017.3 | 45.02 |
| 045.0 | 000.1200 | -0040.9 | 005.9 | 258.3 | 000.2500 | -0172.5 | 017.3 | 45.06 |
| 046.0 | 000.1200 | -0055.0 | 005.9 | 258.0 | 000.2500 | -0175.6 | 017.2 | 45.11 |
| 047.0 | 000.1200 | -0068.0 | 005.9 | 257.7 | 000.2500 | -0179.0 | 017.2 | 45.16 |
| 048.0 | 000.1200 | -0079.2 | 005.9 | 257.4 | 000.2500 | -0182.4 | 017.1 | 45.20 |
| 049.0 | 000.1200 | -0089.0 | 005.9 | 257.1 | 000.2500 | -0185.9 | 017.1 | 45.24 |
| 050.0 | 000.1200 | -0097.9 | 005.9 | 256.8 | 000.2500 | -0189.3 | 017.0 | 45.28 |
| 051.0 | 000.1200 | -0107.2 | 005.9 | 256.5 | 000.2500 | -0192.6 | 017.0 | 45.32 |
| 052.0 | 000.1200 | -0115.7 | 005.9 | 256.2 | 000.2500 | -0195.8 | 016.9 | 45.35 |
| 053.0 | 000.1200 | -0123.3 | 005.9 | 255.9 | 000.2500 | -0198.6 | 016.9 | 45.39 |
| 054.0 | 000.1200 | -0130.1 | 005.9 | 255.6 | 000.2500 | -0201.1 | 016.8 | 45.42 |
| 055.0 | 000.1200 | -0135.9 | 005.9 | 255.2 | 000.2500 | -0203.4 | 016.8 | 45.45 |
| 056.0 | 000.1200 | -0141.0 | 005.9 | 254.9 | 000.2500 | -0205.7 | 016.8 | 45.48 |
| 057.0 | 000.1200 | -0145.1 | 005.9 | 254.6 | 000.2500 | -0207.7 | 016.7 | 45.51 |
| 058.0 | 000.1200 | -0150.5 | 005.9 | 254.2 | 000.2500 | -0209.1 | 016.7 | 45.53 |
| 059.0 | 000.1200 | -0157.2 | 005.9 | 253.9 | 000.2500 | -0210.0 | 016.7 | 45.55 |
| 060.0 | 000.1200 | -0163.2 | 005.9 | 253.5 | 000.2500 | -0210.3 | 016.7 | 45.57 |
| 061.0 | 000.1200 | -0164.7 | 005.9 | 253.2 | 000.2500 | -0210.1 | 016.6 | 45.59 |
| 062.0 | 000.1200 | -0161.0 | 005.9 | 252.8 | 000.2500 | -0209.6 | 016.6 | 45.61 |
| 063.0 | 000.1200 | -0155.0 | 005.9 | 252.5 | 000.2500 | -0209.1 | 016.6 | 45.63 |
| 064.0 | 000.1200 | -0151.0 | 005.9 | 252.1 | 000.2500 | -0208.8 | 016.6 | 45.64 |
| 065.0 | 000.1200 | -0150.4 | 005.9 | 251.8 | 000.2500 | -0208.6 | 016.6 | 45.65 |
| 066.0 | 000.1200 | -0154.5 | 005.9 | 251.4 | 000.2500 | -0208.6 | 016.6 | 45.66 |
| 067.0 | 000.1200 | -0160.7 | 005.9 | 251.1 | 000.2500 | -0208.7 | 016.6 | 45.67 |
| 068.0 | 000.1200 | -0167.0 | 005.9 | 250.7 | 000.2500 | -0208.9 | 016.5 | 45.67 |
| 069.0 | 000.1200 | -0172.5 | 005.9 | 250.4 | 000.2500 | -0209.0 | 016.5 | 45.67 |
| 070.0 | 000.1200 | -0176.0 | 005.9 | 250.0 | 000.2500 | -0209.2 | 016.5 | 45.67 |
| 071.0 | 000.1200 | -0175.6 | 005.9 | 249.7 | 000.2500 | -0209.1 | 016.5 | 45.67 |
| 072.0 | 000.1200 | -0172.6 | 005.9 | 249.3 | 000.2500 | -0208.9 | 016.5 | 45.67 |
| 073.0 | 000.1200 | -0167.1 | 005.9 | 249.0 | 000.2500 | -0208.4 | 016.6 | 45.66 |
| 074.0 | 000.1200 | -0159.9 | 005.9 | 248.6 | 000.2500 | -0207.6 | 016.6 | 45.66 |
| 075.0 | 000.1200 | -0152.1 | 005.9 | 248.2 | 000.2500 | -0206.4 | 016.6 | 45.65 |
| 076.0 | 000.1200 | -0147.6 | 005.9 | 247.9 | 000.2500 | -0204.8 | 016.6 | 45.64 |
| 077.0 | 000.1200 | -0144.9 | 005.9 | 247.5 | 000.2500 | -0202.9 | 016.6 | 45.62 |
| 078.0 | 000.1200 | -0144.9 | 005.9 | 247.2 | 000.2500 | -0200.8 | 016.6 | 45.61 |
| 079.0 | 000.1200 | -0144.9 | 005.9 | 246.8 | 000.2500 | -0198.5 | 016.6 | 45.59 |
| 080.0 | 000.1200 | -0143.6 | 005.9 | 246.5 | 000.2500 | -0195.9 | 016.7 | 45.57 |
| 081.0 | 000.1200 | -0143.3 | 005.9 | 246.2 | 000.2500 | -0193.2 | 016.7 | 45.55 |
| 082.0 | 000.1200 | -0142.3 | 005.9 | 245.8 | 000.2500 | -0190.3 | 016.7 | 45.52 |
| 083.0 | 000.1200 | -0141.9 | 005.9 | 245.5 | 000.2500 | -0187.6 | 016.8 | 45.50 |
| 084.0 | 000.1200 | -0141.1 | 005.9 | 245.1 | 000.2500 | -0184.9 | 016.8 | 45.47 |
| 085.0 | 000.1200 | -0139.8 | 005.9 | 244.8 | 000.2500 | -0182.3 | 016.8 | 45.44 |
| 086.0 | 000.1200 | -0137.0 | 005.9 | 244.5 | 000.2500 | -0179.9 | 016.9 | 45.41 |
| 087.0 | 000.1200 | -0136.1 | 005.9 | 244.2 | 000.2500 | -0177.5 | 016.9 | 45.38 |
| 088.0 | 000.1200 | -0139.1 | 005.9 | 243.8 | 000.2500 | -0175.5 | 016.9 | 45.34 |
| 089.0 | 000.1200 | -0142.0 | 005.9 | 243.5 | 000.2500 | -0173.9 | 017.0 | 45.31 |
| 090.0 | 000.1200 | -0144.9 | 005.9 | 243.2 | 000.2500 | -0172.5 | 017.0 | 45.27 |
| 091.0 | 000.1200 | -0147.8 | 005.9 | 242.9 | 000.2500 | -0171.3 | 017.1 | 45.23 |
| 092.0 | 000.1200 | -0147.4 | 005.9 | 242.6 | 000.2500 | -0170.1 | 017.1 | 45.19 |
| 093.0 | 000.1200 | -0145.6 | 005.9 | 242.3 | 000.2500 | -0169.1 | 017.2 | 45.14 |

| Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | | Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Actual (dBu) |
|----------------------|-------------|-------------|--------------|--|----------------------|-------------|-------------|--------------|-----------------|
| 094.0 | 000.1200 | -0144.1 | 005.9 | | 242.0 | 000.2500 | -0167.9 | 017.2 | 45.10 |
| 095.0 | 000.1200 | -0146.6 | 005.9 | | 241.7 | 000.2500 | -0166.6 | 017.3 | 45.05 |
| 096.0 | 000.1200 | -0149.9 | 005.9 | | 241.4 | 000.2500 | -0165.3 | 017.3 | 45.00 |
| 097.0 | 000.1200 | -0153.0 | 005.9 | | 241.2 | 000.2500 | -0163.9 | 017.4 | 44.95 |
| 098.0 | 000.1200 | -0156.4 | 005.9 | | 240.9 | 000.2500 | -0162.3 | 017.5 | 44.90 |
| 099.0 | 000.1200 | -0156.2 | 005.9 | | 240.6 | 000.2500 | -0160.6 | 017.5 | 44.85 |
| 100.0 | 000.1200 | -0155.2 | 005.9 | | 240.4 | 000.2500 | -0158.7 | 017.6 | 44.79 |
| 101.0 | 000.1200 | -0156.2 | 005.9 | | 240.1 | 000.2500 | -0156.7 | 017.7 | 44.74 |
| 102.0 | 000.1200 | -0160.5 | 005.9 | | 239.9 | 000.2500 | -0154.7 | 017.7 | 44.68 |
| 103.0 | 000.1200 | -0163.0 | 005.9 | | 239.6 | 000.2500 | -0152.5 | 017.8 | 44.62 |
| 104.0 | 000.1200 | -0165.4 | 005.9 | | 239.4 | 000.2500 | -0150.3 | 017.9 | 44.56 |
| 105.0 | 000.1200 | -0168.3 | 005.9 | | 239.2 | 000.2500 | -0148.1 | 017.9 | 44.50 |
| 106.0 | 000.1200 | -0170.8 | 005.9 | | 238.9 | 000.2500 | -0145.9 | 018.0 | 44.44 |
| 107.0 | 000.1200 | -0174.0 | 005.9 | | 238.7 | 000.2500 | -0143.9 | 018.1 | 44.38 |
| 108.0 | 000.1200 | -0177.5 | 005.9 | | 238.5 | 000.2500 | -0141.8 | 018.2 | 44.31 |
| 109.0 | 000.1200 | -0180.6 | 005.9 | | 238.3 | 000.2500 | -0139.7 | 018.2 | 44.25 |
| 110.0 | 000.1200 | -0182.5 | 005.9 | | 238.1 | 000.2500 | -0137.8 | 018.3 | 44.18 |
| 111.0 | 000.1200 | -0183.2 | 005.9 | | 237.9 | 000.2500 | -0136.1 | 018.4 | 44.12 |
| 112.0 | 000.1200 | -0183.3 | 005.9 | | 237.7 | 000.2500 | -0134.4 | 018.5 | 44.05 |
| 113.0 | 000.1200 | -0183.2 | 005.9 | | 237.5 | 000.2500 | -0132.9 | 018.6 | 43.98 |
| 114.0 | 000.1200 | -0183.1 | 005.9 | | 237.3 | 000.2500 | -0131.4 | 018.7 | 43.91 |
| 115.0 | 000.1200 | -0182.3 | 005.9 | | 237.2 | 000.2500 | -0130.0 | 018.8 | 43.84 |
| 116.0 | 000.1200 | -0180.0 | 005.9 | | 237.0 | 000.2500 | -0128.8 | 018.8 | 43.77 |
| 117.0 | 000.1200 | -0178.9 | 005.9 | | 236.9 | 000.2500 | -0127.6 | 018.9 | 43.69 |
| 118.0 | 000.1200 | -0180.0 | 005.9 | | 236.7 | 000.2500 | -0126.4 | 019.0 | 43.62 |
| 119.0 | 000.1200 | -0183.5 | 005.9 | | 236.6 | 000.2500 | -0125.3 | 019.1 | 43.55 |
| 120.0 | 000.1200 | -0188.6 | 005.9 | | 236.4 | 000.2500 | -0124.2 | 019.2 | 43.47 |
| 121.0 | 000.1200 | -0192.2 | 005.9 | | 236.3 | 000.2500 | -0123.2 | 019.3 | 43.40 |
| 122.0 | 000.1200 | -0194.1 | 005.9 | | 236.2 | 000.2500 | -0122.3 | 019.4 | 43.32 |
| 123.0 | 000.1200 | -0193.5 | 005.9 | | 236.0 | 000.2500 | -0121.4 | 019.5 | 43.25 |
| 124.0 | 000.1200 | -0191.6 | 005.9 | | 235.9 | 000.2500 | -0120.5 | 019.6 | 43.17 |
| 125.0 | 000.1200 | -0189.6 | 005.9 | | 235.8 | 000.2500 | -0119.7 | 019.7 | 43.09 |
| 126.0 | 000.1200 | -0188.8 | 005.9 | | 235.7 | 000.2500 | -0119.0 | 019.8 | 43.01 |
| 127.0 | 000.1200 | -0191.0 | 005.9 | | 235.6 | 000.2500 | -0118.3 | 019.9 | 42.94 |
| 128.0 | 000.1200 | -0196.6 | 005.9 | | 235.5 | 000.2500 | -0117.6 | 020.0 | 42.86 |
| 129.0 | 000.1200 | -0204.7 | 005.9 | | 235.4 | 000.2500 | -0117.0 | 020.1 | 42.78 |