

University Of Wyoming												
REFERENCE		CH#	211A	-	90.1	MHz, Pwr= 0.11 kW, HAAT= 294.0 M, COR= 2699 M	KUWL - Drop to 11 meters AGL Average Protected F(50-50)= 18.26 km		DISPLAY DATES			
41 18 36.0 N. 105 27 17.0 W.												
CH CITY	CALL	TYPE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(KW) HAAT(M)	INT(km) COR(M)	PRO(km)	LICENSEE	*IN*	*OUT*
											(Overlap in km)	
211A	KUWL Laramie	CP WY	_CX	0.0 0.0	0.00 BPED19980826MK	41 18 36.0 105 27 17.0	0.090 314	47.7 2718	14.5	Uni versi ty Of Wyomi ng	-62.24*<	-62.11*<
209C0	KXWA Loveland	CP CO	_EX	172.1 352.2	77.64 BPED20050816ABA	40 37 03.0 105 19 40.0	80.000 372	11.3 2561	80.4	Way-fm Medi a Group, Inc.	56.21	-3.49**<
212C2	KWYC Orchard Valley	CP WY	_CX	96.7 277.3	84.99 BPED20070502ADU	41 13 01.0 104 26 53.0	34.000 130	63.3 1848	40.7	Calvary Chapel Of Twin Fal	3.84	17.71
212C2	KWYC Cheyenne	APP WY	_CX	96.7 277.3	84.99 BMPED20070808ACK	41 13 01.0 104 26 53.0	34.000 130	63.3 1848	40.7	Csn Internat ional	3.84	17.71
209C1	KXWA Loveland	LIC CO	_EX	172.1 352.2	77.64 BLED20050510ADD	40 37 03.0 105 19 40.0	36.000 372	8.9 2561	71.8	Way-fm Medi a Group, Inc.	58.65	5.13
211C1	KVOD Denver	CP CO	DCX	173.6 353.8	182.82 BPED20030728AFL	39 40 25.0 105 13 01.0	44.000 342	162.9 2363	71.9	Publ ic Broadcast ing	10.03	77.74
212C2	KWYC Orchard Valley	LIC WY	_CX	96.7 277.3	84.99 BLED20050825AFD	41 13 01.0 104 26 53.0	20.000 130	56.6 1848	36.5	Calvary Chapel Of Twin Fal	10.51	21.94
211C1	KVOD Denver	LIC CO	_CY	174.3 354.4	176.28 BLED19851115KB	39 43 49.0 105 14 59.0	50.000 277	155.8 2333	66.0	Publ ic Broadcast ing	10.54	76.79
264C1	KOLZ Cheyenne	LIC WY	_CY	121.7 302.0	44.23 BLH19790806A0	41 06 01.0 105 00 23.0	100.000 149	2.0 2155	12.5	Ci tasters Licenses, L.p.	21.5R	22.7M
264C1	KOLZ Cheyenne	APP WY	NCX	121.5 301.8	55.49 BPH20071030ACB	41 02 55.0 104 53 28.0	100.000 202	2.0 2103	12.5	Ci tasters Licenses, L.p.	21.5R	34.0M
211C2	KHCO Hayden	LIC CO	VX	229.2 48.4	145.08 BLED20050819AEB	40 27 04.0 106 45 06.0	1.900 518	84.5 3136	29.9	Educational Medi a Foundati	38.81	46.23
211C2	KHCO Hayden	CP CO	VX	229.2 48.4	145.08 BPED20060926ALE	40 27 04.0 106 45 06.0	1.800 522	84.3 3140	29.8	Educational Medi a Foundati	39.06	46.32
211C2	AP5621 Lingle	APP WY	DCX	62.4 243.4	148.84 BNPED20071022BPT	41 55 06.0 103 51 49.0	94.000 98	76.6 1359	24.2	Calvary Iowa Ci ty	53.89	66.50
212C	KCSP-FM Casper	LIC WY	CN	336.4 155.8	173.79 BLED19921013KA	42 44 24.0 106 18 23.0	100.000 587	97.2 2554	65.8	Western Insp irational Broa	57.01	78.87
06-2E	KRMATV Denver	LIC CO	HY	174.3 354.4	176.27 BLET19950504KE	39 43 49.0 105 15 00.0	100.000 292	2349	105.2	Rocky Mountain Publ ic Broa	111.8R	64.5M
06-2E	KRMATV Denver	CP CO	DCY	173.6 353.8	182.82 BPET19990107KE	39 40 25.0 105 13 01.0	100.000 342	2363	111.0	Rocky Mountain Publ ic Broa	117.4R	65.4M
06+2E	KPTW Casper	CP WY	DHN	335.1 154.5	175.68 BPET19960624KT	42 44 26.0 106 21 34.0	0.331 536	2501	20.2	Central Wyoming Col lege	33.0R	142.6M

Terrain database is USGS 03 SEC Distance + R = 73.215 or FCC Spacings in KM, Distance + M = Margin in KM  
Contour distances are on direct line to and from reference station. Reference zone = 2  
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C, H, V, E), Beamtilt(Y, N, X)  
\*\*affixed to 'IN' or 'OUT' values = site inside protected contour.  
"<" = Contour Overlap

\*\* Special operating condition #6 of construction permit BPED-20050816ABA allows KUWL to make modifications to its facility without regard to outgoing overlap with KXWA. See page 3-6 of this exhibit.

## 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 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 contour overlap. Listed antenna heights and power are 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 contour overlap.

Under the "AZIMUTH" 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 appropriate interference contour and the protected contour of a data base station.

For I.F. relationships and relationships with commercial channel stations the minimum spacings 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 call letters of stations meeting the minimum separation distances will be flagged by the characters "<<" appended to the end of the call letters. The "A" character appended to the call letters 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.

**United States of America**  
**FEDERAL COMMUNICATIONS COMMISSION**  
**FM BROADCAST STATION CONSTRUCTION PERMIT**

Authorizing Official:

Official Mailing Address:

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WAY-FM MEDIA GROUP, INC.  
P.O. BOX 64500  
COLORADO SPRINGS CO 80962

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Rodolfo F. Bonacci  
Assistant Chief  
Audio Division  
Media Bureau

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Facility ID: 89401

Grant Date: December 20, 2005

Call Sign: KXWA

The authority granted herein has no effect on the expiration date of the underlying construction permit.

Permit File Number: BPED-20050816ABA

Subject to the provisions of the Communications Act of 1934, as amended, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this permit, the permittee is hereby authorized to construct the radio transmitting apparatus herein described. Installation and adjustment of equipment not specifically set forth herein shall be in accordance with representations contained in the permittee's application for construction permit except for such modifications as are presently permitted, without application, by the Commission's Rules.

Commission rules which became effective on February 16, 1999, have a bearing on this construction permit. See Report & Order, Streamlining of Mass Media Applications, MM Docket No. 98-43, 13 FCC RCD 23056, Para. 77-90 (November 25, 1998); 63 Fed. Reg. 70039 (December 18, 1998). Pursuant to these rules, this construction permit will be subject to automatic forfeiture unless construction is complete and an application for license to cover is filed prior to expiration. See Section 73.3598.

Equipment and program tests shall be conducted only pursuant to Sections 73.1610 and 73.1620 of the Commission's Rules.

Name of Permittee: WAY-FM MEDIA GROUP, INC.

Station Location: CO-LOVELAND

Frequency (MHz) : 89.7

Channel: 209

Class: C0

Hours of Operation: Unlimited

Callsign: KXWA

Permit No.: BPED-20050816ABA

Transmitter: Type Accepted. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.

Transmitter output power: As required to achieve authorized ERP.

Antenna type: Non-Directional

Antenna Coordinates: North Latitude: 40 deg 37 min 03 sec  
West Longitude: 105 deg 19 min 40 sec

Horizontally Polarized Antenna	Vertically Polarized Antenna
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Effective radiated power in the Horizontal Plane (kW):	.100	80
Height of radiation center above ground (Meters):	37	37
Height of radiation center above mean sea level (Meters):	2561	2561
Height of radiation center above average terrain (Meters):	372	372

Antenna structure registration number: Not Required

Overall height of antenna structure above ground: 43 Meters

Obstruction marking and lighting specifications for antenna structure:

It is to be expressly understood that the issuance of these specifications is in no way to be considered as precluding additional or modified marking or lighting as may hereafter be required under the provisions of Section 303(q) of the Communications Act of 1934, as amended.

None Required

Special operating conditions or restrictions:

- 1 Grant of, or future modification of, the facility applied for in application BPED-19980625MB to operate on Channel 207A serving Laramie, Wyoming (Facility ID# 91038) will not be construed as a per se modification of KXWA's construction permit (BPED-20050816ABA). (See Educational Information Corporation, 6 FCC Rcd. 2207 (1991)).
- 2 Grant of, or future modification of, the facility applied for in application BPED-19990601MG to operate on Channel 207A serving Laramie, Wyoming (Facility ID# 93647) will not be construed as a per se modification of KXWA's construction permit (BPED-20050816ABA). (See Educational Information Corporation, 6 FCC Rcd. 2207 (1991)).
- 3 Grant of, or future modification of, the facility applied for in application BPED-19980407MD to operate on Channel 211A serving Laramie, Wyoming (Facility ID# 90454) will not be construed as a per se modification of KXWA's construction permit (BPED-20050816ABA). (See Educational Information Corporation, 6 FCC Rcd. 2207 (1991)).

## Special operating conditions or restrictions:

- 4 Grant of, or future modification of, the facility applied for in application BPED-19980825MD to operate on Channel 211A serving Laramie, Wyoming (Facility ID# 91512) will not be construed as a per se modification of KXWA's construction permit (BPED-20050816ABA). (See Educational Information Corporation, 6 FCC Rcd. 2207 (1991)).
- 5 Grant of, or future modification of, the facility applied for in application BPED-19980825ME to operate on Channel 211C3 serving Laramie, Wyoming (Facility ID# 91511) will not be construed as a per se modification of KXWA's construction permit (BPED-20050816ABA). (See Educational Information Corporation, 6 FCC Rcd. 2207 (1991)).
- 6 Grant of, or future modification of, the facility applied for in application BPED-19980826MK to operate on Channel 211A serving Laramie, Wyoming (Facility ID# 91563) will not be construed as a per se modification of KXWA's construction permit (BPED-20050816ABA). (See Educational Information Corporation, 6 FCC Rcd. 2207 (1991)).
- 7 Before equipment tests with the facilities authorized herein are begun permittee/licensee shall contact the Radio Frequency Management Office of the National Oceanographic and Atmospheric Administration's Environmental Research Laboratories in Boulder, Colorado, at the address specified in Section 73.1030(b)(2) of the Commission's Rules. Permittee/licensee will agree with the staff of the Radio Frequency Management Office upon a suitable measurement procedure for determining the field strength of the signal radiated by the permittee's/ licensee's authorized facilities at the coordinates of the Table Mountain Radio Receiving Zone specified in Section 73.1030(b) of the Commission's Rules. After reaching an agreement on a suitable procedure, permittee will begin equipment tests with the facilities authorized herein, will implement the agreed-upon procedure, and will make sufficient measurements to establish that the field strength of the signal radiated by the permittee's/llicensee's authorized facilities at the specified Table Mountain Radio Receiving Zone coordinates does not exceed 10 mV/m or 80 dBu. In the event that the measured field strength at the specified Table Mountain Radio Receiving Zone coordinates resulting from the operation of the permittee's/llicensee's authorized facilities exceeds 10 mV/m or 80 dBu, program tests will not be undertaken by the pemitee/ licensee. The permittee/llicensee will instead submit an application for modification of this construction permit specifying a means acceptable to the Radio Frequency Management Office of the National Oceanographic and Atmospheric Administration's Environmental Research Laboratories to reduce the field strength at the specified Table Mountain Radio Receiving Zone coordinates resulting from the operation of the permittee's/llicensee's authorized facilities to a level not exceeding 10 mV/m or 80 dBu. The permittee/llicensee will serve a copy of the application for license (FCC Form 302-FM and associated exhibits on the Radio Frequency Management Office at the address specified in Section 73.1030(b)(2) of the Commission's Rules on or before the date the application is tendered at the Commission's Office in Washington, D.C.. Grant of the license will occur only with the concurrence of the National Oceanographic and Atmospheric Administration's Environmental Research Laboratories as to the adequacy of the protection afforded to the Table Mountain Radio Receiving Zone by the permittee's /licensee's authorized facilities.

## Special operating conditions or restrictions:

- 8 The permittee/licensee shall, upon completion of construction and during the equipment test period, make proper radiofrequency electromagnetic (RF) field strength measurements throughout the transmitter site area to determine if there are any areas that exceed the FCC guidelines for human exposure to RF fields. If necessary, a fence must be erected at such distances and in such a manner as to prevent the exposure of humans to RF fields in excess of the FCC Guidelines (OET Bulletin No. 65, Edition 97-01, August 1997). The fence must be a type which will preclude casual or inadvertent access, and must include warning signs at appropriate intervals which describe the nature of the hazard. Any areas within the fence found to exceed the recommended guidelines must be clearly marked with appropriate visual warning signs.

Shively (EPA Type 6), six sections, 0.5 wavelength spacing

- 9 The permittee/licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

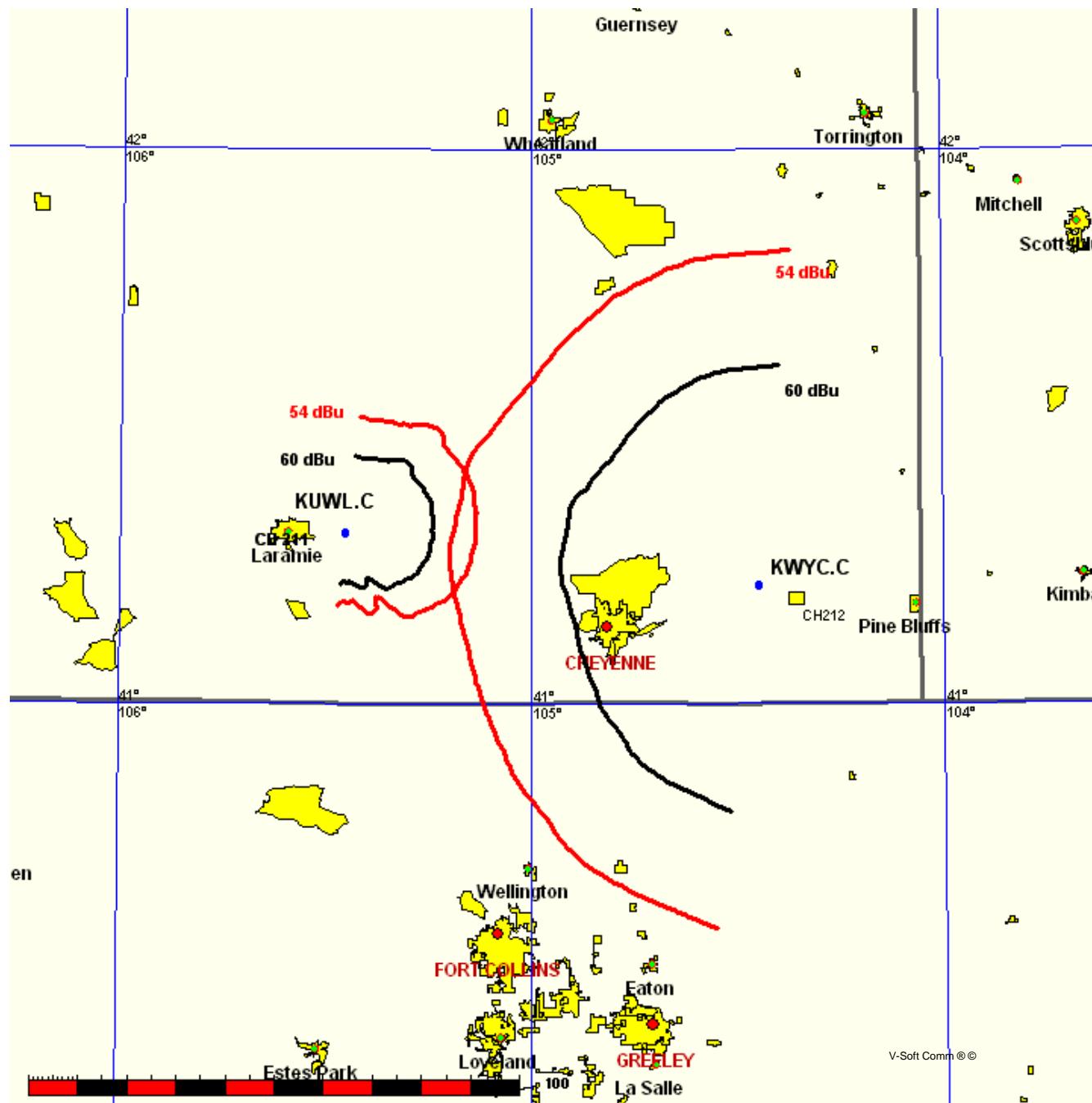
\*\*\* END OF AUTHORIZATION \*\*\*

University Of Wyoming  
KUWL (New) v. KWYC.C

FMCommander Single Allocation Study  
01-08-2008

KUWL.C CH 211 A  
0.11 kW 2699 M COR  
Prot. = 60 dBu  
Intef. = 54 dBu

KWYC-C CH 212 C2 BPED20070502ADU  
34.0 kW, 1848 M COR  
Prot. = 60 dBu  
Intef. = 54 dBu



01-08-2008

USGS 03 SEC Terrain Data

FMOver Analysis

KUWL.C  
 Channel = 211A  
 Max ERP = 0.11 kW  
 RCAMSL = 2699 M  
 N. Lat. 41 18 36.0  
 W. Lng. 105 27 17.0  
 Protected  
 60 dBu

KWYC-C BPED20070502ADU  
 Channel = 212C2  
 Max ERP = 34 kW  
 RCAMSL = 1848 M  
 N. Lat. 41 13 01.0  
 W. Lng. 104 26 53.0  
 Interfering  
 54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
037.0	000.1100	0292.5	018.2	289.1	034.0000	0096.8	077.4	49.95
038.0	000.1100	0299.1	018.4	289.2	034.0000	0096.9	077.0	50.06
039.0	000.1100	0304.2	018.6	289.2	034.0000	0096.9	076.7	50.16
040.0	000.1100	0308.5	018.7	289.2	034.0000	0096.9	076.3	50.26
041.0	000.1100	0313.0	018.9	289.2	034.0000	0096.9	076.0	50.36
042.0	000.1100	0315.9	018.9	289.2	034.0000	0096.9	075.6	50.45
043.0	000.1100	0316.7	019.0	289.1	034.0000	0096.8	075.3	50.54
044.0	000.1100	0317.4	019.0	289.0	034.0000	0096.7	075.0	50.62
045.0	000.1100	0316.7	019.0	288.9	034.0000	0096.6	074.7	50.70
046.0	000.1100	0313.5	018.9	288.7	034.0000	0096.4	074.5	50.76
047.0	000.1100	0305.5	018.6	288.4	034.0000	0096.2	074.3	50.79
048.0	000.1100	0298.0	018.4	288.1	034.0000	0096.0	074.2	50.83
049.0	000.1100	0290.6	018.2	287.8	034.0000	0095.7	074.0	50.86
050.0	000.1100	0287.6	018.1	287.6	034.0000	0095.5	073.8	50.91
051.0	000.1100	0287.8	018.1	287.5	034.0000	0095.4	073.5	50.98
052.0	000.1100	0284.4	017.9	287.3	034.0000	0095.3	073.3	51.02
053.0	000.1100	0282.4	017.9	287.1	034.0000	0095.1	073.1	51.08
054.0	000.1100	0284.9	018.0	287.0	034.0000	0095.0	072.8	51.16
055.0	000.1100	0286.7	018.0	286.9	034.0000	0094.9	072.5	51.23
056.0	000.1100	0287.1	018.0	286.7	034.0000	0094.8	072.3	51.30
057.0	000.1100	0289.8	018.1	286.6	034.0000	0094.7	072.0	51.38
058.0	000.1100	0292.4	018.2	286.5	034.0000	0094.6	071.7	51.45
059.0	000.1100	0295.0	018.3	286.4	034.0000	0094.5	071.4	51.53
060.0	000.1100	0297.3	018.4	286.3	034.0000	0094.4	071.1	51.61
061.0	000.1100	0298.9	018.4	286.1	034.0000	0094.3	070.9	51.68
062.0	000.1100	0297.8	018.4	285.9	034.0000	0094.2	070.7	51.73
063.0	000.1100	0295.1	018.3	285.7	034.0000	0094.0	070.5	51.77
064.0	000.1100	0296.9	018.4	285.5	034.0000	0094.0	070.3	51.83
065.0	000.1100	0301.5	018.5	285.4	034.0000	0093.9	069.9	51.92
066.0	000.1100	0301.5	018.5	285.2	034.0000	0093.9	069.7	51.98
067.0	000.1100	0300.4	018.5	284.9	034.0000	0093.8	069.6	52.03
068.0	000.1100	0303.0	018.6	284.8	034.0000	0093.8	069.3	52.10
069.0	000.1100	0303.9	018.6	284.6	034.0000	0093.8	069.1	52.16
070.0	000.1100	0303.8	018.6	284.3	034.0000	0093.8	068.9	52.22
071.0	000.1100	0303.6	018.6	284.1	034.0000	0093.8	068.7	52.27
072.0	000.1100	0302.6	018.5	283.9	034.0000	0093.8	068.6	52.31
073.0	000.1100	0301.7	018.5	283.6	034.0000	0093.8	068.5	52.35

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
074.0	000.1100	0300.5	018.5	283.4	034.0000	0093.8	068.3	52.39
075.0	000.1100	0299.0	018.4	283.1	034.0000	0093.9	068.2	52.42
076.0	000.1100	0296.8	018.4	282.8	034.0000	0093.9	068.1	52.45
077.0	000.1100	0293.7	018.3	282.6	034.0000	0093.9	068.1	52.46
078.0	000.1100	0292.1	018.2	282.3	034.0000	0094.0	068.0	52.49
079.0	000.1100	0292.6	018.2	282.0	034.0000	0094.0	067.9	52.53
080.0	000.1100	0294.0	018.3	281.8	034.0000	0094.1	067.7	52.58
081.0	000.1100	0294.5	018.3	281.6	034.0000	0094.1	067.6	52.62
082.0	000.1100	0293.9	018.3	281.3	034.0000	0094.1	067.5	52.65
083.0	000.1100	0288.9	018.1	281.0	034.0000	0094.2	067.6	52.64
084.0	000.1100	0287.3	018.0	280.7	034.0000	0094.2	067.5	52.65
085.0	000.1100	0286.4	018.0	280.5	034.0000	0094.3	067.5	52.67
086.0	000.1100	0285.4	018.0	280.2	034.0000	0094.3	067.4	52.69
087.0	000.1100	0283.4	017.9	279.9	034.0000	0094.4	067.4	52.69
088.0	000.1100	0281.8	017.9	279.7	034.0000	0094.5	067.4	52.70
089.0	000.1100	0281.2	017.8	279.4	034.0000	0094.6	067.4	52.72
090.0	000.1100	0282.7	017.9	279.1	034.0000	0094.7	067.3	52.75
091.0	000.1100	0285.0	018.0	278.9	034.0000	0094.8	067.1	52.79
092.0	000.1100	0286.2	018.0	278.6	034.0000	0094.9	067.1	52.82
093.0	000.1100	0287.4	018.0	278.3	034.0000	0095.0	067.0	52.85
094.0	000.1100	0288.3	018.1	278.1	034.0000	0095.1	067.0	52.87
095.0	000.1100	0286.0	018.0	277.8	034.0000	0095.2	067.0	52.86
096.0	000.1100	0283.8	017.9	277.5	034.0000	0095.2	067.1	52.84
097.0	000.1100	0281.3	017.8	277.3	034.0000	0095.3	067.2	52.82
098.0	000.1100	0277.0	017.7	277.0	034.0000	0095.4	067.3	52.78
099.0	000.1100	0275.0	017.6	276.7	034.0000	0095.4	067.4	52.76
100.0	000.1100	0275.0	017.6	276.5	034.0000	0095.5	067.4	52.76
101.0	000.1100	0275.7	017.7	276.2	034.0000	0095.5	067.4	52.76
102.0	000.1100	0276.3	017.7	276.0	034.0000	0095.4	067.4	52.75
103.0	000.1100	0276.7	017.7	275.7	034.0000	0095.3	067.4	52.74
104.0	000.1100	0277.0	017.7	275.4	034.0000	0095.2	067.5	52.72
105.0	000.1100	0276.8	017.7	275.2	034.0000	0095.0	067.5	52.69
106.0	000.1100	0276.1	017.7	274.9	034.0000	0094.9	067.6	52.66
107.0	000.1100	0274.7	017.6	274.7	034.0000	0094.8	067.7	52.62
108.0	000.1100	0273.4	017.6	274.4	034.0000	0094.7	067.9	52.58
109.0	000.1100	0271.6	017.5	274.2	034.0000	0094.5	068.0	52.53
110.0	000.1100	0266.6	017.3	274.0	034.0000	0094.4	068.2	52.45
111.0	000.1100	0263.3	017.2	273.8	034.0000	0094.3	068.4	52.38
112.0	000.1100	0261.8	017.2	273.5	034.0000	0094.2	068.6	52.33
113.0	000.1100	0260.2	017.1	273.3	034.0000	0094.0	068.7	52.28
114.0	000.1100	0258.2	017.0	273.1	034.0000	0093.9	068.9	52.22
115.0	000.1100	0257.3	017.0	272.9	034.0000	0093.8	069.1	52.17
116.0	000.1100	0256.7	017.0	272.7	034.0000	0093.6	069.2	52.12
117.0	000.1100	0256.0	017.0	272.5	034.0000	0093.5	069.3	52.07
118.0	000.1100	0254.7	016.9	272.3	034.0000	0093.3	069.5	52.02
119.0	000.1100	0254.4	016.9	272.0	034.0000	0093.1	069.7	51.96
120.0	000.1100	0252.6	016.8	271.9	034.0000	0093.0	069.8	51.90
121.0	000.1100	0248.6	016.7	271.7	034.0000	0092.9	070.1	51.81
122.0	000.1100	0245.6	016.6	271.5	034.0000	0092.7	070.4	51.73
123.0	000.1100	0243.6	016.5	271.4	034.0000	0092.6	070.6	51.66
124.0	000.1100	0239.0	016.3	271.2	034.0000	0092.5	070.9	51.57

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
125.0	000.1100	0233.0	016.1	271.2	034.0000	0092.4	071.2	51.47
126.0	000.1100	0227.5	015.9	271.1	034.0000	0092.3	071.5	51.37
127.0	000.1100	0223.2	015.8	271.0	034.0000	0092.2	071.8	51.28
128.0	000.1100	0219.7	015.6	270.9	034.0000	0092.1	072.1	51.20
129.0	000.1100	0217.4	015.5	270.7	034.0000	0092.0	072.3	51.12
130.0	000.1100	0214.7	015.4	270.6	034.0000	0091.9	072.6	51.05
131.0	000.1100	0211.4	015.3	270.5	034.0000	0091.8	072.9	50.97
132.0	000.1100	0207.9	015.2	270.4	034.0000	0091.7	073.1	50.88
133.0	000.1100	0203.8	015.0	270.4	034.0000	0091.6	073.4	50.79
134.0	000.1100	0198.6	014.8	270.3	034.0000	0091.6	073.7	50.70
135.0	000.1100	0195.9	014.7	270.2	034.0000	0091.5	074.0	50.63
136.0	000.1100	0193.6	014.7	270.1	034.0000	0091.4	074.2	50.55
137.0	000.1100	0191.6	014.6	270.0	034.0000	0091.3	074.5	50.48
138.0	000.1100	0190.4	014.5	269.9	034.0000	0091.2	074.7	50.42
139.0	000.1100	0189.7	014.5	269.8	034.0000	0091.1	074.9	50.35
140.0	000.1100	0189.4	014.5	269.7	034.0000	0091.0	075.1	50.29
141.0	000.1100	0188.0	014.5	269.6	034.0000	0090.9	075.3	50.22
142.0	000.1100	0184.3	014.3	269.6	034.0000	0090.8	075.6	50.14
143.0	000.1100	0179.6	014.2	269.6	034.0000	0090.8	075.9	50.05
144.0	000.1100	0172.0	013.9	269.6	034.0000	0090.9	076.3	49.95
145.0	000.1100	0163.5	013.5	269.8	034.0000	0091.1	076.7	49.85
146.0	000.1100	0153.2	013.0	270.0	034.0000	0091.3	077.1	49.73
147.0	000.1100	0140.7	012.4	270.2	034.0000	0091.5	077.7	49.61
148.0	000.1100	0130.9	012.0	270.4	034.0000	0091.7	078.1	49.50
149.0	000.1100	0121.1	011.5	270.6	034.0000	0091.9	078.5	49.40
150.0	000.1100	0108.4	011.0	270.9	034.0000	0092.2	078.9	49.29
151.0	000.1100	0101.6	010.6	271.1	034.0000	0092.3	079.3	49.20
152.0	000.1100	0099.1	010.5	271.1	034.0000	0092.3	079.5	49.14
153.0	000.1100	0098.8	010.5	271.0	034.0000	0092.3	079.7	49.10
154.0	000.1100	0093.6	010.2	271.1	034.0000	0092.4	079.9	49.02
155.0	000.1100	0097.4	010.4	271.0	034.0000	0092.2	080.0	48.99
156.0	000.1100	0106.1	010.9	270.6	034.0000	0091.9	080.0	48.98
157.0	000.1100	0118.3	011.4	270.2	034.0000	0091.5	080.0	48.97

01-08-2008 USGS 03 SEC Terrain Data

KWYC-C BPED20070502ADU  
 Channel = 212C2  
 Max ERP = 34 kW  
 RCAMSL = 1848 M  
 N. Lat. 41 13 01.0  
 W. Lng. 104 26 53.0  
 Protected  
 60 dBu

KUWL.C  
 Channel = 211A  
 Max ERP = 0.11 kW  
 RCAMSL = 2699 M  
 N. Lat. 41 18 36.0  
 W. Lng. 105 27 17.0  
 Interfering  
 54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
217.0	034.0000	0107.7	042.8	127.0	000.1100	0223.0	073.7	31.90
218.0	034.0000	0106.6	042.6	126.9	000.1100	0223.7	073.0	32.16
219.0	034.0000	0104.7	042.3	126.6	000.1100	0224.6	072.3	32.43
220.0	034.0000	0102.5	042.0	126.3	000.1100	0226.0	071.5	32.72
221.0	034.0000	0100.5	041.6	126.0	000.1100	0227.5	070.8	33.02
222.0	034.0000	0099.2	041.4	125.8	000.1100	0228.7	070.1	33.30
223.0	034.0000	0098.3	041.3	125.6	000.1100	0229.8	069.4	33.57
224.0	034.0000	0097.9	041.2	125.4	000.1100	0230.6	068.7	33.84
225.0	034.0000	0097.4	041.1	125.3	000.1100	0231.5	068.0	34.11
226.0	034.0000	0097.0	041.1	125.1	000.1100	0232.4	067.3	34.38
227.0	034.0000	0096.7	041.0	125.0	000.1100	0233.3	066.6	34.65
228.0	034.0000	0096.4	040.9	124.8	000.1100	0234.2	066.0	34.92
229.0	034.0000	0096.0	040.9	124.6	000.1100	0235.4	065.3	35.20
230.0	034.0000	0095.7	040.8	124.4	000.1100	0236.6	064.6	35.48
231.0	034.0000	0095.4	040.8	124.2	000.1100	0238.0	063.9	35.76
232.0	034.0000	0094.9	040.7	123.9	000.1100	0239.6	063.3	36.05
233.0	034.0000	0094.0	040.5	123.6	000.1100	0241.4	062.6	36.34
234.0	034.0000	0092.8	040.3	123.2	000.1100	0243.2	062.1	36.62
235.0	034.0000	0091.4	040.0	122.7	000.1100	0244.5	061.5	36.88
236.0	034.0000	0090.0	039.8	122.2	000.1100	0245.2	060.9	37.11
237.0	034.0000	0089.2	039.6	121.8	000.1100	0245.9	060.4	37.35
238.0	034.0000	0088.7	039.5	121.5	000.1100	0246.8	059.8	37.60
239.0	034.0000	0088.2	039.5	121.1	000.1100	0248.3	059.2	37.88
240.0	034.0000	0087.7	039.4	120.7	000.1100	0249.8	058.7	38.15
241.0	034.0000	0087.2	039.3	120.3	000.1100	0251.5	058.1	38.43
242.0	034.0000	0086.7	039.2	119.8	000.1100	0253.2	057.6	38.70
243.0	034.0000	0086.2	039.1	119.4	000.1100	0254.2	057.0	38.94
244.0	034.0000	0085.7	039.0	118.9	000.1100	0254.4	056.5	39.15
245.0	034.0000	0085.3	038.9	118.4	000.1100	0254.5	056.0	39.36
246.0	034.0000	0084.9	038.8	118.0	000.1100	0254.8	055.5	39.57
247.0	034.0000	0084.7	038.8	117.5	000.1100	0255.3	055.0	39.79
248.0	034.0000	0084.4	038.7	117.0	000.1100	0256.0	054.5	40.01
249.0	034.0000	0084.2	038.7	116.5	000.1100	0256.4	054.0	40.22
250.0	034.0000	0084.1	038.7	116.0	000.1100	0256.7	053.6	40.43

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
251.0	034.0000	0084.0	038.6	115.5	000.1100	0257.1	053.1	40.63
252.0	034.0000	0083.8	038.6	114.9	000.1100	0257.3	052.7	40.82
253.0	034.0000	0083.6	038.6	114.3	000.1100	0257.8	052.2	41.00
254.0	034.0000	0083.3	038.5	113.7	000.1100	0258.7	051.8	41.20
255.0	034.0000	0083.0	038.4	113.1	000.1100	0260.0	051.5	41.40
256.0	034.0000	0082.7	038.4	112.5	000.1100	0261.1	051.1	41.58
257.0	034.0000	0082.5	038.3	111.8	000.1100	0262.0	050.7	41.76
258.0	034.0000	0082.6	038.4	111.2	000.1100	0262.9	050.3	41.95
259.0	034.0000	0082.9	038.4	110.6	000.1100	0264.0	049.9	42.15
260.0	034.0000	0083.4	038.5	110.0	000.1100	0266.6	049.5	42.41
261.0	034.0000	0084.1	038.7	109.4	000.1100	0270.0	049.0	42.71
262.0	034.0000	0084.8	038.8	108.8	000.1100	0272.2	048.6	42.96
263.0	034.0000	0085.3	038.9	108.1	000.1100	0273.3	048.2	43.15
264.0	034.0000	0085.7	039.0	107.4	000.1100	0274.2	047.8	43.32
265.0	034.0000	0086.1	039.0	106.7	000.1100	0275.1	047.5	43.49
266.0	034.0000	0086.6	039.1	106.0	000.1100	0276.1	047.2	43.66
267.0	034.0000	0087.7	039.4	105.3	000.1100	0276.7	046.7	43.85
268.0	034.0000	0089.0	039.6	104.5	000.1100	0276.9	046.3	44.04
269.0	034.0000	0090.1	039.8	103.8	000.1100	0276.9	045.9	44.20
270.0	034.0000	0091.3	040.0	103.0	000.1100	0276.7	045.5	44.35
271.0	034.0000	0092.3	040.2	102.2	000.1100	0276.4	045.2	44.48
272.0	034.0000	0093.1	040.4	101.3	000.1100	0275.9	044.9	44.58
273.0	034.0000	0093.8	040.5	100.5	000.1100	0275.3	044.7	44.66
274.0	034.0000	0094.4	040.6	099.6	000.1100	0274.7	044.5	44.72
275.0	034.0000	0095.0	040.7	098.7	000.1100	0275.4	044.3	44.81
276.0	034.0000	0095.4	040.8	097.8	000.1100	0277.9	044.2	44.94
277.0	034.0000	0095.4	040.8	096.8	000.1100	0281.9	044.2	45.07
278.0	034.0000	0095.1	040.7	095.9	000.1100	0283.9	044.3	45.11
279.0	034.0000	0094.7	040.6	095.0	000.1100	0286.0	044.4	45.13
280.0	034.0000	0094.4	040.6	094.1	000.1100	0288.2	044.5	45.15
281.0	034.0000	0094.2	040.6	093.2	000.1100	0287.6	044.6	45.09
282.0	034.0000	0094.0	040.5	092.3	000.1100	0286.4	044.7	45.00
283.0	034.0000	0093.9	040.5	091.4	000.1100	0285.6	044.9	44.90
284.0	034.0000	0093.8	040.5	090.5	000.1100	0284.0	045.0	44.79
285.0	034.0000	0093.8	040.5	089.6	000.1100	0282.1	045.2	44.66
286.0	034.0000	0094.2	040.6	088.7	000.1100	0281.1	045.3	44.58
287.0	034.0000	0095.0	040.7	087.8	000.1100	0281.9	045.4	44.57
288.0	034.0000	0095.9	040.8	086.9	000.1100	0283.6	045.5	44.58
289.0	034.0000	0096.7	041.0	086.0	000.1100	0285.4	045.6	44.58
290.0	034.0000	0097.5	041.1	085.1	000.1100	0286.3	045.8	44.55
291.0	034.0000	0098.2	041.2	084.2	000.1100	0287.1	046.0	44.49
292.0	034.0000	0098.6	041.3	083.4	000.1100	0288.0	046.2	44.41
293.0	034.0000	0098.5	041.3	082.6	000.1100	0290.5	046.6	44.34
294.0	034.0000	0097.7	041.2	082.0	000.1100	0294.0	047.1	44.25
295.0	034.0000	0096.8	041.0	081.3	000.1100	0294.6	047.6	44.06
296.0	034.0000	0095.7	040.8	080.8	000.1100	0294.3	048.2	43.83
297.0	034.0000	0093.7	040.5	080.3	000.1100	0294.2	048.9	43.55
298.0	034.0000	0091.7	040.1	079.9	000.1100	0293.9	049.6	43.26
299.0	034.0000	0091.1	040.0	079.4	000.1100	0293.1	050.1	43.03
300.0	034.0000	0090.8	039.9	078.8	000.1100	0292.4	050.6	42.81
301.0	034.0000	0090.4	039.9	078.2	000.1100	0292.1	051.1	42.60

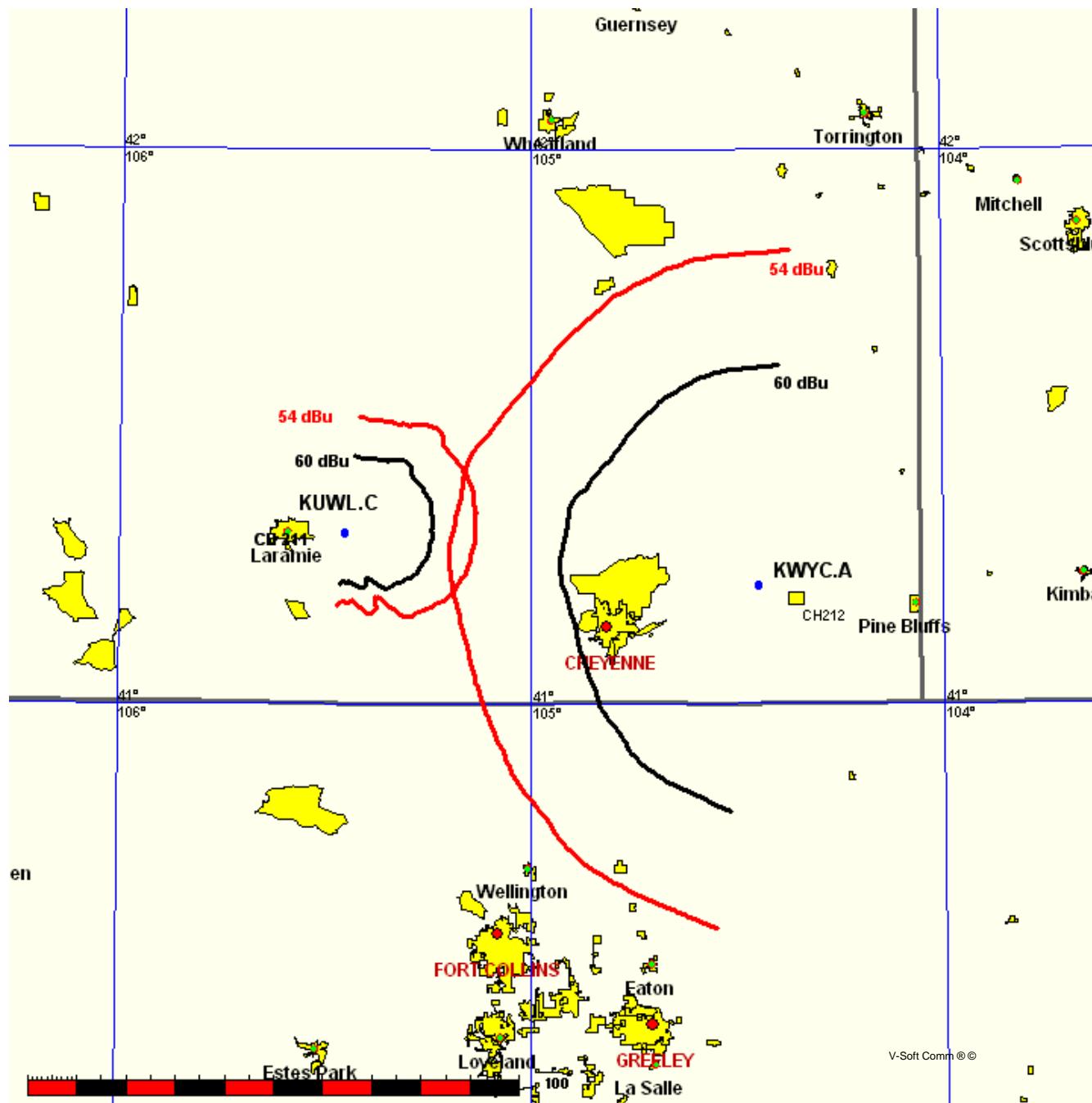
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
302.0	034.0000	0090.0	039.8	077.7	000.1100	0292.2	051.6	42.39
303.0	034.0000	0089.6	039.7	077.3	000.1100	0293.0	052.2	42.20
304.0	034.0000	0089.2	039.6	076.8	000.1100	0294.3	052.7	42.03
305.0	034.0000	0088.7	039.5	076.4	000.1100	0295.8	053.3	41.85
306.0	034.0000	0088.1	039.4	076.0	000.1100	0296.9	053.9	41.65
307.0	034.0000	0087.6	039.3	075.6	000.1100	0297.8	054.5	41.45
308.0	034.0000	0087.2	039.3	075.2	000.1100	0298.6	055.1	41.24
309.0	034.0000	0086.9	039.2	074.8	000.1100	0299.3	055.6	41.04
310.0	034.0000	0086.8	039.2	074.4	000.1100	0299.9	056.2	40.84
311.0	034.0000	0086.8	039.2	074.0	000.1100	0300.4	056.8	40.64
312.0	034.0000	0087.1	039.2	073.6	000.1100	0300.9	057.3	40.44
313.0	034.0000	0087.5	039.3	073.2	000.1100	0301.4	057.9	40.25
314.0	034.0000	0088.0	039.4	072.8	000.1100	0301.9	058.4	40.05
315.0	034.0000	0088.6	039.5	072.3	000.1100	0302.3	058.9	39.85
316.0	034.0000	0089.2	039.6	071.9	000.1100	0302.7	059.5	39.65
317.0	034.0000	0089.9	039.8	071.5	000.1100	0303.1	060.1	39.45
318.0	034.0000	0090.6	039.9	071.1	000.1100	0303.5	060.7	39.24
319.0	034.0000	0091.3	040.0	070.8	000.1100	0303.7	061.2	39.03
320.0	034.0000	0092.2	040.2	070.4	000.1100	0303.8	061.8	38.81
321.0	034.0000	0093.1	040.4	070.0	000.1100	0303.8	062.4	38.59
322.0	034.0000	0093.7	040.5	069.7	000.1100	0303.8	063.1	38.36
323.0	034.0000	0094.1	040.5	069.5	000.1100	0303.8	063.7	38.12
324.0	034.0000	0094.5	040.6	069.2	000.1100	0303.9	064.4	37.89
325.0	034.0000	0095.0	040.7	069.0	000.1100	0303.9	065.0	37.65
326.0	034.0000	0095.5	040.8	068.8	000.1100	0303.9	065.7	37.41
327.0	034.0000	0095.9	040.9	068.5	000.1100	0303.8	066.4	37.16
328.0	034.0000	0096.6	041.0	068.3	000.1100	0303.6	067.0	36.91
329.0	034.0000	0097.6	041.2	068.1	000.1100	0303.2	067.7	36.66
330.0	034.0000	0098.9	041.4	067.8	000.1100	0302.5	068.4	36.39
331.0	034.0000	0100.3	041.6	067.5	000.1100	0301.6	069.1	36.12
332.0	034.0000	0101.7	041.8	067.2	000.1100	0300.9	069.8	35.85
333.0	034.0000	0102.5	042.0	067.1	000.1100	0300.6	070.5	35.59
334.0	034.0000	0102.8	042.0	067.0	000.1100	0300.5	071.2	35.33
335.0	034.0000	0103.0	042.1	066.9	000.1100	0300.4	071.9	35.07
336.0	034.0000	0103.4	042.1	066.9	000.1100	0300.3	072.7	34.81
337.0	034.0000	0103.8	042.2	066.8	000.1100	0300.3	073.4	34.55

University Of Wyoming  
KUWL (New) v. KWYC.A

FMCommander Single Allocation Study  
01-08-2008

KUWL.C CH 211 A  
0.11 kW 2699 M COR  
Prot. = 60 dBu  
Intef. = 54 dBu

KWYC-A CH 212 C2 BMPED20070808ACK  
34.0 kW, 1848 M COR  
Prot. = 60 dBu  
Intef. = 54 dBu



01-08-2008

USGS 03 SEC Terrain Data

FMOver Analysis

KUWL.C  
 Channel = 211A  
 Max ERP = 0.11 kW  
 RCAMSL = 2699 M  
 N. Lat. 41 18 36.0  
 W. Lng. 105 27 17.0  
 Protected  
 60 dBu

KWYC-A BMPED20070808ACK  
 Channel = 212C2  
 Max ERP = 34 kW  
 RCAMSL = 1848 M  
 N. Lat. 41 13 01.0  
 W. Lng. 104 26 53.0  
 Interfering  
 54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
037.0	000.1100	0292.5	018.2	289.1	034.0000	0096.8	077.4	49.95
038.0	000.1100	0299.1	018.4	289.2	034.0000	0096.9	077.0	50.06
039.0	000.1100	0304.2	018.6	289.2	034.0000	0096.9	076.7	50.16
040.0	000.1100	0308.5	018.7	289.2	034.0000	0096.9	076.3	50.26
041.0	000.1100	0313.0	018.9	289.2	034.0000	0096.9	076.0	50.36
042.0	000.1100	0315.9	018.9	289.2	034.0000	0096.9	075.6	50.45
043.0	000.1100	0316.7	019.0	289.1	034.0000	0096.8	075.3	50.54
044.0	000.1100	0317.4	019.0	289.0	034.0000	0096.7	075.0	50.62
045.0	000.1100	0316.7	019.0	288.9	034.0000	0096.6	074.7	50.70
046.0	000.1100	0313.5	018.9	288.7	034.0000	0096.4	074.5	50.76
047.0	000.1100	0305.5	018.6	288.4	034.0000	0096.2	074.3	50.79
048.0	000.1100	0298.0	018.4	288.1	034.0000	0096.0	074.2	50.83
049.0	000.1100	0290.6	018.2	287.8	034.0000	0095.7	074.0	50.86
050.0	000.1100	0287.6	018.1	287.6	034.0000	0095.5	073.8	50.91
051.0	000.1100	0287.8	018.1	287.5	034.0000	0095.4	073.5	50.98
052.0	000.1100	0284.4	017.9	287.3	034.0000	0095.3	073.3	51.02
053.0	000.1100	0282.4	017.9	287.1	034.0000	0095.1	073.1	51.08
054.0	000.1100	0284.9	018.0	287.0	034.0000	0095.0	072.8	51.16
055.0	000.1100	0286.7	018.0	286.9	034.0000	0094.9	072.5	51.23
056.0	000.1100	0287.1	018.0	286.7	034.0000	0094.8	072.3	51.30
057.0	000.1100	0289.8	018.1	286.6	034.0000	0094.7	072.0	51.38
058.0	000.1100	0292.4	018.2	286.5	034.0000	0094.6	071.7	51.45
059.0	000.1100	0295.0	018.3	286.4	034.0000	0094.5	071.4	51.53
060.0	000.1100	0297.3	018.4	286.3	034.0000	0094.4	071.1	51.61
061.0	000.1100	0298.9	018.4	286.1	034.0000	0094.3	070.9	51.68
062.0	000.1100	0297.8	018.4	285.9	034.0000	0094.2	070.7	51.73
063.0	000.1100	0295.1	018.3	285.7	034.0000	0094.0	070.5	51.77
064.0	000.1100	0296.9	018.4	285.5	034.0000	0094.0	070.3	51.83
065.0	000.1100	0301.5	018.5	285.4	034.0000	0093.9	069.9	51.92
066.0	000.1100	0301.5	018.5	285.2	034.0000	0093.9	069.7	51.98
067.0	000.1100	0300.4	018.5	284.9	034.0000	0093.8	069.6	52.03
068.0	000.1100	0303.0	018.6	284.8	034.0000	0093.8	069.3	52.10
069.0	000.1100	0303.9	018.6	284.6	034.0000	0093.8	069.1	52.16
070.0	000.1100	0303.8	018.6	284.3	034.0000	0093.8	068.9	52.22
071.0	000.1100	0303.6	018.6	284.1	034.0000	0093.8	068.7	52.27
072.0	000.1100	0302.6	018.5	283.9	034.0000	0093.8	068.6	52.31
073.0	000.1100	0301.7	018.5	283.6	034.0000	0093.8	068.5	52.35

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
074.0	000.1100	0300.5	018.5	283.4	034.0000	0093.8	068.3	52.39
075.0	000.1100	0299.0	018.4	283.1	034.0000	0093.9	068.2	52.42
076.0	000.1100	0296.8	018.4	282.8	034.0000	0093.9	068.1	52.45
077.0	000.1100	0293.7	018.3	282.6	034.0000	0093.9	068.1	52.46
078.0	000.1100	0292.1	018.2	282.3	034.0000	0094.0	068.0	52.49
079.0	000.1100	0292.6	018.2	282.0	034.0000	0094.0	067.9	52.53
080.0	000.1100	0294.0	018.3	281.8	034.0000	0094.1	067.7	52.58
081.0	000.1100	0294.5	018.3	281.6	034.0000	0094.1	067.6	52.62
082.0	000.1100	0293.9	018.3	281.3	034.0000	0094.1	067.5	52.65
083.0	000.1100	0288.9	018.1	281.0	034.0000	0094.2	067.6	52.64
084.0	000.1100	0287.3	018.0	280.7	034.0000	0094.2	067.5	52.65
085.0	000.1100	0286.4	018.0	280.5	034.0000	0094.3	067.5	52.67
086.0	000.1100	0285.4	018.0	280.2	034.0000	0094.3	067.4	52.69
087.0	000.1100	0283.4	017.9	279.9	034.0000	0094.4	067.4	52.69
088.0	000.1100	0281.8	017.9	279.7	034.0000	0094.5	067.4	52.70
089.0	000.1100	0281.2	017.8	279.4	034.0000	0094.6	067.4	52.72
090.0	000.1100	0282.7	017.9	279.1	034.0000	0094.7	067.3	52.75
091.0	000.1100	0285.0	018.0	278.9	034.0000	0094.8	067.1	52.79
092.0	000.1100	0286.2	018.0	278.6	034.0000	0094.9	067.1	52.82
093.0	000.1100	0287.4	018.0	278.3	034.0000	0095.0	067.0	52.85
094.0	000.1100	0288.3	018.1	278.1	034.0000	0095.1	067.0	52.87
095.0	000.1100	0286.0	018.0	277.8	034.0000	0095.2	067.0	52.86
096.0	000.1100	0283.8	017.9	277.5	034.0000	0095.2	067.1	52.84
097.0	000.1100	0281.3	017.8	277.3	034.0000	0095.3	067.2	52.82
098.0	000.1100	0277.0	017.7	277.0	034.0000	0095.4	067.3	52.78
099.0	000.1100	0275.0	017.6	276.7	034.0000	0095.4	067.4	52.76
100.0	000.1100	0275.0	017.6	276.5	034.0000	0095.5	067.4	52.76
101.0	000.1100	0275.7	017.7	276.2	034.0000	0095.5	067.4	52.76
102.0	000.1100	0276.3	017.7	276.0	034.0000	0095.4	067.4	52.75
103.0	000.1100	0276.7	017.7	275.7	034.0000	0095.3	067.4	52.74
104.0	000.1100	0277.0	017.7	275.4	034.0000	0095.2	067.5	52.72
105.0	000.1100	0276.8	017.7	275.2	034.0000	0095.0	067.5	52.69
106.0	000.1100	0276.1	017.7	274.9	034.0000	0094.9	067.6	52.66
107.0	000.1100	0274.7	017.6	274.7	034.0000	0094.8	067.7	52.62
108.0	000.1100	0273.4	017.6	274.4	034.0000	0094.7	067.9	52.58
109.0	000.1100	0271.6	017.5	274.2	034.0000	0094.5	068.0	52.53
110.0	000.1100	0266.6	017.3	274.0	034.0000	0094.4	068.2	52.45
111.0	000.1100	0263.3	017.2	273.8	034.0000	0094.3	068.4	52.38
112.0	000.1100	0261.8	017.2	273.5	034.0000	0094.2	068.6	52.33
113.0	000.1100	0260.2	017.1	273.3	034.0000	0094.0	068.7	52.28
114.0	000.1100	0258.2	017.0	273.1	034.0000	0093.9	068.9	52.22
115.0	000.1100	0257.3	017.0	272.9	034.0000	0093.8	069.1	52.17
116.0	000.1100	0256.7	017.0	272.7	034.0000	0093.6	069.2	52.12
117.0	000.1100	0256.0	017.0	272.5	034.0000	0093.5	069.3	52.07
118.0	000.1100	0254.7	016.9	272.3	034.0000	0093.3	069.5	52.02
119.0	000.1100	0254.4	016.9	272.0	034.0000	0093.1	069.7	51.96
120.0	000.1100	0252.6	016.8	271.9	034.0000	0093.0	069.8	51.90
121.0	000.1100	0248.6	016.7	271.7	034.0000	0092.9	070.1	51.81
122.0	000.1100	0245.6	016.6	271.5	034.0000	0092.7	070.4	51.73
123.0	000.1100	0243.6	016.5	271.4	034.0000	0092.6	070.6	51.66
124.0	000.1100	0239.0	016.3	271.2	034.0000	0092.5	070.9	51.57

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
125.0	000.1100	0233.0	016.1	271.2	034.0000	0092.4	071.2	51.47
126.0	000.1100	0227.5	015.9	271.1	034.0000	0092.3	071.5	51.37
127.0	000.1100	0223.2	015.8	271.0	034.0000	0092.2	071.8	51.28
128.0	000.1100	0219.7	015.6	270.9	034.0000	0092.1	072.1	51.20
129.0	000.1100	0217.4	015.5	270.7	034.0000	0092.0	072.3	51.12
130.0	000.1100	0214.7	015.4	270.6	034.0000	0091.9	072.6	51.05
131.0	000.1100	0211.4	015.3	270.5	034.0000	0091.8	072.9	50.97
132.0	000.1100	0207.9	015.2	270.4	034.0000	0091.7	073.1	50.88
133.0	000.1100	0203.8	015.0	270.4	034.0000	0091.6	073.4	50.79
134.0	000.1100	0198.6	014.8	270.3	034.0000	0091.6	073.7	50.70
135.0	000.1100	0195.9	014.7	270.2	034.0000	0091.5	074.0	50.63
136.0	000.1100	0193.6	014.7	270.1	034.0000	0091.4	074.2	50.55
137.0	000.1100	0191.6	014.6	270.0	034.0000	0091.3	074.5	50.48
138.0	000.1100	0190.4	014.5	269.9	034.0000	0091.2	074.7	50.42
139.0	000.1100	0189.7	014.5	269.8	034.0000	0091.1	074.9	50.35
140.0	000.1100	0189.4	014.5	269.7	034.0000	0091.0	075.1	50.29
141.0	000.1100	0188.0	014.5	269.6	034.0000	0090.9	075.3	50.22
142.0	000.1100	0184.3	014.3	269.6	034.0000	0090.8	075.6	50.14
143.0	000.1100	0179.6	014.2	269.6	034.0000	0090.8	075.9	50.05
144.0	000.1100	0172.0	013.9	269.6	034.0000	0090.9	076.3	49.95
145.0	000.1100	0163.5	013.5	269.8	034.0000	0091.1	076.7	49.85
146.0	000.1100	0153.2	013.0	270.0	034.0000	0091.3	077.1	49.73
147.0	000.1100	0140.7	012.4	270.2	034.0000	0091.5	077.7	49.61
148.0	000.1100	0130.9	012.0	270.4	034.0000	0091.7	078.1	49.50
149.0	000.1100	0121.1	011.5	270.6	034.0000	0091.9	078.5	49.40
150.0	000.1100	0108.4	011.0	270.9	034.0000	0092.2	078.9	49.29
151.0	000.1100	0101.6	010.6	271.1	034.0000	0092.3	079.3	49.20
152.0	000.1100	0099.1	010.5	271.1	034.0000	0092.3	079.5	49.14
153.0	000.1100	0098.8	010.5	271.0	034.0000	0092.3	079.7	49.10
154.0	000.1100	0093.6	010.2	271.1	034.0000	0092.4	079.9	49.02
155.0	000.1100	0097.4	010.4	271.0	034.0000	0092.2	080.0	48.99
156.0	000.1100	0106.1	010.9	270.6	034.0000	0091.9	080.0	48.98
157.0	000.1100	0118.3	011.4	270.2	034.0000	0091.5	080.0	48.97

01-08-2008 USGS 03 SEC Terrain Data

KWYC-A	BMPED20070808ACK	KUWL.C
Channel = 212C2		Channel = 211A
Max ERP = 34 kW		Max ERP = 0.11 kW
RCAMSL = 1848 M		RCAMSL = 2699 M
N. Lat. 41 13 01.0		N. Lat. 41 18 36.0
W. Lng. 104 26 53.0		W. Lng. 105 27 17.0
Protected		Interfering
60 dBu		54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
217.0	034.0000	0107.7	042.8	127.0	000.1100	0223.0	073.7	31.90
218.0	034.0000	0106.6	042.6	126.9	000.1100	0223.7	073.0	32.16
219.0	034.0000	0104.7	042.3	126.6	000.1100	0224.6	072.3	32.43
220.0	034.0000	0102.5	042.0	126.3	000.1100	0226.0	071.5	32.72
221.0	034.0000	0100.5	041.6	126.0	000.1100	0227.5	070.8	33.02
222.0	034.0000	0099.2	041.4	125.8	000.1100	0228.7	070.1	33.30
223.0	034.0000	0098.3	041.3	125.6	000.1100	0229.8	069.4	33.57
224.0	034.0000	0097.9	041.2	125.4	000.1100	0230.6	068.7	33.84
225.0	034.0000	0097.4	041.1	125.3	000.1100	0231.5	068.0	34.11
226.0	034.0000	0097.0	041.1	125.1	000.1100	0232.4	067.3	34.38
227.0	034.0000	0096.7	041.0	125.0	000.1100	0233.3	066.6	34.65
228.0	034.0000	0096.4	040.9	124.8	000.1100	0234.2	066.0	34.92
229.0	034.0000	0096.0	040.9	124.6	000.1100	0235.4	065.3	35.20
230.0	034.0000	0095.7	040.8	124.4	000.1100	0236.6	064.6	35.48
231.0	034.0000	0095.4	040.8	124.2	000.1100	0238.0	063.9	35.76
232.0	034.0000	0094.9	040.7	123.9	000.1100	0239.6	063.3	36.05
233.0	034.0000	0094.0	040.5	123.6	000.1100	0241.4	062.6	36.34
234.0	034.0000	0092.8	040.3	123.2	000.1100	0243.2	062.1	36.62
235.0	034.0000	0091.4	040.0	122.7	000.1100	0244.5	061.5	36.88
236.0	034.0000	0090.0	039.8	122.2	000.1100	0245.2	060.9	37.11
237.0	034.0000	0089.2	039.6	121.8	000.1100	0245.9	060.4	37.35
238.0	034.0000	0088.7	039.5	121.5	000.1100	0246.8	059.8	37.60
239.0	034.0000	0088.2	039.5	121.1	000.1100	0248.3	059.2	37.88
240.0	034.0000	0087.7	039.4	120.7	000.1100	0249.8	058.7	38.15
241.0	034.0000	0087.2	039.3	120.3	000.1100	0251.5	058.1	38.43
242.0	034.0000	0086.7	039.2	119.8	000.1100	0253.2	057.6	38.70
243.0	034.0000	0086.2	039.1	119.4	000.1100	0254.2	057.0	38.94
244.0	034.0000	0085.7	039.0	118.9	000.1100	0254.4	056.5	39.15
245.0	034.0000	0085.3	038.9	118.4	000.1100	0254.5	056.0	39.36
246.0	034.0000	0084.9	038.8	118.0	000.1100	0254.8	055.5	39.57
247.0	034.0000	0084.7	038.8	117.5	000.1100	0255.3	055.0	39.79
248.0	034.0000	0084.4	038.7	117.0	000.1100	0256.0	054.5	40.01
249.0	034.0000	0084.2	038.7	116.5	000.1100	0256.4	054.0	40.22
250.0	034.0000	0084.1	038.7	116.0	000.1100	0256.7	053.6	40.43

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
251.0	034.0000	0084.0	038.6	115.5	000.1100	0257.1	053.1	40.63
252.0	034.0000	0083.8	038.6	114.9	000.1100	0257.3	052.7	40.82
253.0	034.0000	0083.6	038.6	114.3	000.1100	0257.8	052.2	41.00
254.0	034.0000	0083.3	038.5	113.7	000.1100	0258.7	051.8	41.20
255.0	034.0000	0083.0	038.4	113.1	000.1100	0260.0	051.5	41.40
256.0	034.0000	0082.7	038.4	112.5	000.1100	0261.1	051.1	41.58
257.0	034.0000	0082.5	038.3	111.8	000.1100	0262.0	050.7	41.76
258.0	034.0000	0082.6	038.4	111.2	000.1100	0262.9	050.3	41.95
259.0	034.0000	0082.9	038.4	110.6	000.1100	0264.0	049.9	42.15
260.0	034.0000	0083.4	038.5	110.0	000.1100	0266.6	049.5	42.41
261.0	034.0000	0084.1	038.7	109.4	000.1100	0270.0	049.0	42.71
262.0	034.0000	0084.8	038.8	108.8	000.1100	0272.2	048.6	42.96
263.0	034.0000	0085.3	038.9	108.1	000.1100	0273.3	048.2	43.15
264.0	034.0000	0085.7	039.0	107.4	000.1100	0274.2	047.8	43.32
265.0	034.0000	0086.1	039.0	106.7	000.1100	0275.1	047.5	43.49
266.0	034.0000	0086.6	039.1	106.0	000.1100	0276.1	047.2	43.66
267.0	034.0000	0087.7	039.4	105.3	000.1100	0276.7	046.7	43.85
268.0	034.0000	0089.0	039.6	104.5	000.1100	0276.9	046.3	44.04
269.0	034.0000	0090.1	039.8	103.8	000.1100	0276.9	045.9	44.20
270.0	034.0000	0091.3	040.0	103.0	000.1100	0276.7	045.5	44.35
271.0	034.0000	0092.3	040.2	102.2	000.1100	0276.4	045.2	44.48
272.0	034.0000	0093.1	040.4	101.3	000.1100	0275.9	044.9	44.58
273.0	034.0000	0093.8	040.5	100.5	000.1100	0275.3	044.7	44.66
274.0	034.0000	0094.4	040.6	099.6	000.1100	0274.7	044.5	44.72
275.0	034.0000	0095.0	040.7	098.7	000.1100	0275.4	044.3	44.81
276.0	034.0000	0095.4	040.8	097.8	000.1100	0277.9	044.2	44.94
277.0	034.0000	0095.4	040.8	096.8	000.1100	0281.9	044.2	45.07
278.0	034.0000	0095.1	040.7	095.9	000.1100	0283.9	044.3	45.11
279.0	034.0000	0094.7	040.6	095.0	000.1100	0286.0	044.4	45.13
280.0	034.0000	0094.4	040.6	094.1	000.1100	0288.2	044.5	45.15
281.0	034.0000	0094.2	040.6	093.2	000.1100	0287.6	044.6	45.09
282.0	034.0000	0094.0	040.5	092.3	000.1100	0286.4	044.7	45.00
283.0	034.0000	0093.9	040.5	091.4	000.1100	0285.6	044.9	44.90
284.0	034.0000	0093.8	040.5	090.5	000.1100	0284.0	045.0	44.79
285.0	034.0000	0093.8	040.5	089.6	000.1100	0282.1	045.2	44.66
286.0	034.0000	0094.2	040.6	088.7	000.1100	0281.1	045.3	44.58
287.0	034.0000	0095.0	040.7	087.8	000.1100	0281.9	045.4	44.57
288.0	034.0000	0095.9	040.8	086.9	000.1100	0283.6	045.5	44.58
289.0	034.0000	0096.7	041.0	086.0	000.1100	0285.4	045.6	44.58
290.0	034.0000	0097.5	041.1	085.1	000.1100	0286.3	045.8	44.55
291.0	034.0000	0098.2	041.2	084.2	000.1100	0287.1	046.0	44.49
292.0	034.0000	0098.6	041.3	083.4	000.1100	0288.0	046.2	44.41
293.0	034.0000	0098.5	041.3	082.6	000.1100	0290.5	046.6	44.34
294.0	034.0000	0097.7	041.2	082.0	000.1100	0294.0	047.1	44.25
295.0	034.0000	0096.8	041.0	081.3	000.1100	0294.6	047.6	44.06
296.0	034.0000	0095.7	040.8	080.8	000.1100	0294.3	048.2	43.83
297.0	034.0000	0093.7	040.5	080.3	000.1100	0294.2	048.9	43.55
298.0	034.0000	0091.7	040.1	079.9	000.1100	0293.9	049.6	43.26
299.0	034.0000	0091.1	040.0	079.4	000.1100	0293.1	050.1	43.03
300.0	034.0000	0090.8	039.9	078.8	000.1100	0292.4	050.6	42.81
301.0	034.0000	0090.4	039.9	078.2	000.1100	0292.1	051.1	42.60

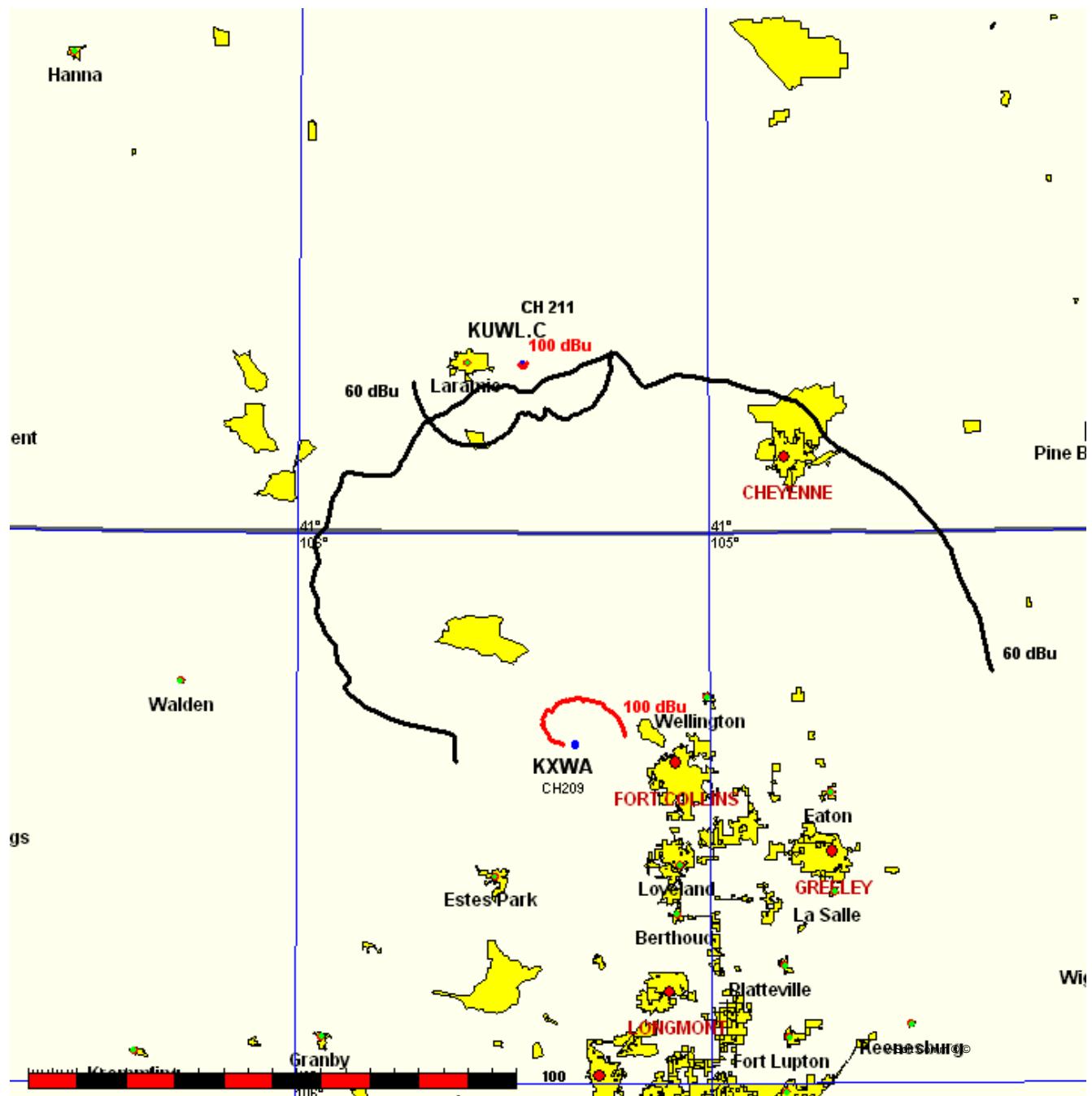
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
302.0	034.0000	0090.0	039.8	077.7	000.1100	0292.2	051.6	42.39
303.0	034.0000	0089.6	039.7	077.3	000.1100	0293.0	052.2	42.20
304.0	034.0000	0089.2	039.6	076.8	000.1100	0294.3	052.7	42.03
305.0	034.0000	0088.7	039.5	076.4	000.1100	0295.8	053.3	41.85
306.0	034.0000	0088.1	039.4	076.0	000.1100	0296.9	053.9	41.65
307.0	034.0000	0087.6	039.3	075.6	000.1100	0297.8	054.5	41.45
308.0	034.0000	0087.2	039.3	075.2	000.1100	0298.6	055.1	41.24
309.0	034.0000	0086.9	039.2	074.8	000.1100	0299.3	055.6	41.04
310.0	034.0000	0086.8	039.2	074.4	000.1100	0299.9	056.2	40.84
311.0	034.0000	0086.8	039.2	074.0	000.1100	0300.4	056.8	40.64
312.0	034.0000	0087.1	039.2	073.6	000.1100	0300.9	057.3	40.44
313.0	034.0000	0087.5	039.3	073.2	000.1100	0301.4	057.9	40.25
314.0	034.0000	0088.0	039.4	072.8	000.1100	0301.9	058.4	40.05
315.0	034.0000	0088.6	039.5	072.3	000.1100	0302.3	058.9	39.85
316.0	034.0000	0089.2	039.6	071.9	000.1100	0302.7	059.5	39.65
317.0	034.0000	0089.9	039.8	071.5	000.1100	0303.1	060.1	39.45
318.0	034.0000	0090.6	039.9	071.1	000.1100	0303.5	060.7	39.24
319.0	034.0000	0091.3	040.0	070.8	000.1100	0303.7	061.2	39.03
320.0	034.0000	0092.2	040.2	070.4	000.1100	0303.8	061.8	38.81
321.0	034.0000	0093.1	040.4	070.0	000.1100	0303.8	062.4	38.59
322.0	034.0000	0093.7	040.5	069.7	000.1100	0303.8	063.1	38.36
323.0	034.0000	0094.1	040.5	069.5	000.1100	0303.8	063.7	38.12
324.0	034.0000	0094.5	040.6	069.2	000.1100	0303.9	064.4	37.89
325.0	034.0000	0095.0	040.7	069.0	000.1100	0303.9	065.0	37.65
326.0	034.0000	0095.5	040.8	068.8	000.1100	0303.9	065.7	37.41
327.0	034.0000	0095.9	040.9	068.5	000.1100	0303.8	066.4	37.16
328.0	034.0000	0096.6	041.0	068.3	000.1100	0303.6	067.0	36.91
329.0	034.0000	0097.6	041.2	068.1	000.1100	0303.2	067.7	36.66
330.0	034.0000	0098.9	041.4	067.8	000.1100	0302.5	068.4	36.39
331.0	034.0000	0100.3	041.6	067.5	000.1100	0301.6	069.1	36.12
332.0	034.0000	0101.7	041.8	067.2	000.1100	0300.9	069.8	35.85
333.0	034.0000	0102.5	042.0	067.1	000.1100	0300.6	070.5	35.59
334.0	034.0000	0102.8	042.0	067.0	000.1100	0300.5	071.2	35.33
335.0	034.0000	0103.0	042.1	066.9	000.1100	0300.4	071.9	35.07
336.0	034.0000	0103.4	042.1	066.9	000.1100	0300.3	072.7	34.81
337.0	034.0000	0103.8	042.2	066.8	000.1100	0300.3	073.4	34.55

University Of Wyoming  
KUWL (New) v. KXWA

FMCommander Single Allocation Study  
01-08-2008

KUWL.C CH 211 A  
0.11 kW 2699 M COR  
Prot. = 60 dBu  
Intef. = 100 dBu

KXWA CH 209 C1 BLED20050510ADD  
36.0 kW, 2561.2 M COR  
Prot. = 60 dBu  
Intef. = 100 dBu



01-08-2008

USGS 03 SEC Terrain Data

FMOver Analysis

KUWL.C  
 Channel = 211A  
 Max ERP = 0.11 kW  
 RCAMSL = 2699 M  
 N. Lat. 41 18 36.0  
 W. Lng. 105 27 17.0  
 Protected  
 60 dBu

KXWA BLED20050510ADD  
 Channel = 209C1  
 Max ERP = 36 kW  
 RCAMSL = 2561.2 M  
 N. Lat. 40 37 03.0  
 W. Lng. 105 19 40.0  
 Interfering  
 100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
112.0	000.1100	0261.8	017.2	004.2	036.0000	0535.9	070.7	67.46
113.0	000.1100	0260.2	017.1	004.1	036.0000	0534.3	070.4	67.52
114.0	000.1100	0258.2	017.0	004.0	036.0000	0532.6	070.1	67.56
115.0	000.1100	0257.3	017.0	003.8	036.0000	0531.1	069.9	67.62
116.0	000.1100	0256.7	017.0	003.7	036.0000	0529.8	069.6	67.67
117.0	000.1100	0256.0	017.0	003.6	036.0000	0528.6	069.3	67.74
118.0	000.1100	0254.7	016.9	003.5	036.0000	0527.3	069.1	67.79
119.0	000.1100	0254.4	016.9	003.4	036.0000	0526.3	068.8	67.85
120.0	000.1100	0252.6	016.8	003.2	036.0000	0525.0	068.6	67.90
121.0	000.1100	0248.6	016.7	003.0	036.0000	0523.7	068.4	67.93
122.0	000.1100	0245.6	016.6	002.8	036.0000	0522.8	068.2	67.98
123.0	000.1100	0243.6	016.5	002.6	036.0000	0522.3	068.0	68.04
124.0	000.1100	0239.0	016.3	002.4	036.0000	0521.4	067.8	68.07
125.0	000.1100	0233.0	016.1	002.1	036.0000	0519.4	067.7	68.06
126.0	000.1100	0227.5	015.9	001.8	036.0000	0516.8	067.6	68.03
127.0	000.1100	0223.2	015.8	001.6	036.0000	0514.1	067.4	68.01
128.0	000.1100	0219.7	015.6	001.4	036.0000	0511.4	067.3	67.99
129.0	000.1100	0217.4	015.5	001.2	036.0000	0508.9	067.1	67.98
130.0	000.1100	0214.7	015.4	001.0	036.0000	0505.6	067.0	67.95
131.0	000.1100	0211.4	015.3	000.7	036.0000	0501.7	066.9	67.89
132.0	000.1100	0207.9	015.2	000.5	036.0000	0498.2	066.7	67.84
133.0	000.1100	0203.8	015.0	000.2	036.0000	0494.2	066.7	67.76
134.0	000.1100	0198.6	014.8	360.0	036.0000	0490.8	066.6	67.70
135.0	000.1100	0195.9	014.7	359.8	036.0000	0488.2	066.5	67.67
136.0	000.1100	0193.6	014.7	359.6	036.0000	0486.5	066.4	67.66
137.0	000.1100	0191.6	014.6	359.4	036.0000	0485.4	066.2	67.68
138.0	000.1100	0190.4	014.5	359.2	036.0000	0484.9	066.1	67.71
139.0	000.1100	0189.7	014.5	359.0	036.0000	0484.0	066.0	67.73
140.0	000.1100	0189.4	014.5	358.8	036.0000	0483.3	065.8	67.77
141.0	000.1100	0188.0	014.5	358.6	036.0000	0482.4	065.7	67.78
142.0	000.1100	0184.3	014.3	358.4	036.0000	0481.4	065.6	67.77
143.0	000.1100	0179.6	014.2	358.1	036.0000	0480.2	065.6	67.75
144.0	000.1100	0172.0	013.9	357.8	036.0000	0478.6	065.7	67.67
145.0	000.1100	0163.5	013.5	357.4	036.0000	0476.8	065.9	67.56
146.0	000.1100	0153.2	013.0	357.1	036.0000	0475.3	066.2	67.43
147.0	000.1100	0140.7	012.4	356.6	036.0000	0473.5	066.6	67.25
148.0	000.1100	0130.9	012.0	356.3	036.0000	0472.7	066.9	67.13

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
149.0	000.1100	0121.1	011.5	356.0	036.0000	0472.2	067.2	67.02
150.0	000.1100	0108.4	011.0	355.6	036.0000	0470.4	067.6	66.83
151.0	000.1100	0101.6	010.6	355.4	036.0000	0468.0	067.8	66.69
152.0	000.1100	0099.1	010.5	355.2	036.0000	0466.2	067.9	66.63
153.0	000.1100	0098.8	010.5	355.0	036.0000	0464.7	067.8	66.61
154.0	000.1100	0093.6	010.2	354.8	036.0000	0462.0	068.0	66.48
155.0	000.1100	0097.4	010.4	354.7	036.0000	0460.9	067.7	66.53
156.0	000.1100	0106.1	010.9	354.7	036.0000	0460.4	067.3	66.68
157.0	000.1100	0118.3	011.4	354.7	036.0000	0460.3	066.7	66.87
158.0	000.1100	0123.2	011.6	354.6	036.0000	0458.8	066.4	66.92
159.0	000.1100	0123.9	011.7	354.4	036.0000	0456.4	066.3	66.89
160.0	000.1100	0124.5	011.7	354.2	036.0000	0453.9	066.3	66.84
161.0	000.1100	0125.4	011.7	354.1	036.0000	0451.1	066.2	66.80
162.0	000.1100	0125.7	011.7	353.9	036.0000	0448.4	066.1	66.75
163.0	000.1100	0124.4	011.7	353.7	036.0000	0445.5	066.1	66.67
164.0	000.1100	0120.7	011.5	353.5	036.0000	0443.1	066.3	66.56
165.0	000.1100	0115.1	011.3	353.3	036.0000	0441.3	066.5	66.44
166.0	000.1100	0109.7	011.0	353.1	036.0000	0440.1	066.7	66.33
167.0	000.1100	0106.3	010.9	353.0	036.0000	0439.9	066.8	66.28
168.0	000.1100	0104.5	010.8	352.8	036.0000	0439.7	066.9	66.25
169.0	000.1100	0102.2	010.7	352.6	036.0000	0439.6	067.0	66.22
170.0	000.1100	0099.1	010.5	352.5	036.0000	0439.5	067.1	66.16
171.0	000.1100	0095.8	010.3	352.3	036.0000	0439.4	067.3	66.11
172.0	000.1100	0091.7	010.1	352.2	036.0000	0439.4	067.5	66.04
173.0	000.1100	0087.4	009.9	352.0	036.0000	0439.5	067.7	65.96
174.0	000.1100	0088.0	009.9	351.9	036.0000	0439.9	067.7	65.98
175.0	000.1100	0090.1	010.0	351.7	036.0000	0440.4	067.6	66.03
176.0	000.1100	0092.7	010.2	351.6	036.0000	0441.1	067.5	66.09
177.0	000.1100	0093.6	010.2	351.4	036.0000	0441.8	067.5	66.12
178.0	000.1100	0093.2	010.2	351.3	036.0000	0442.6	067.5	66.13
179.0	000.1100	0091.0	010.1	351.1	036.0000	0443.4	067.6	66.10
180.0	000.1100	0086.8	009.9	351.0	036.0000	0444.2	067.9	66.04
181.0	000.1100	0087.3	009.9	350.9	036.0000	0445.3	067.9	66.07
182.0	000.1100	0088.3	009.9	350.7	036.0000	0447.1	067.9	66.12
183.0	000.1100	0091.0	010.1	350.5	036.0000	0449.7	067.8	66.23
184.0	000.1100	0095.0	010.3	350.4	036.0000	0452.6	067.6	66.36
185.0	000.1100	0100.2	010.6	350.2	036.0000	0456.2	067.4	66.53
186.0	000.1100	0108.7	011.0	349.9	036.0000	0460.0	067.0	66.75
187.0	000.1100	0120.3	011.5	349.6	036.0000	0463.3	066.6	66.98
188.0	000.1100	0134.4	012.1	349.3	036.0000	0466.1	066.1	67.23
189.0	000.1100	0146.4	012.7	348.9	036.0000	0466.7	065.6	67.40
190.0	000.1100	0157.3	013.2	348.6	036.0000	0466.1	065.2	67.52
191.0	000.1100	0169.4	013.7	348.2	036.0000	0465.4	064.8	67.64
192.0	000.1100	0180.8	014.2	347.9	036.0000	0465.6	064.5	67.75
193.0	000.1100	0186.9	014.4	347.6	036.0000	0466.1	064.4	67.79
194.0	000.1100	0194.6	014.7	347.3	036.0000	0467.0	064.2	67.86
195.0	000.1100	0203.9	015.0	346.9	036.0000	0468.2	064.1	67.96
196.0	000.1100	0213.4	015.4	346.6	036.0000	0471.5	063.9	68.10
197.0	000.1100	0220.8	015.7	346.3	036.0000	0474.9	063.8	68.23
198.0	000.1100	0229.9	016.0	345.9	036.0000	0477.6	063.6	68.35
199.0	000.1100	0242.5	016.5	345.4	036.0000	0479.0	063.4	68.47

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
200.0	000.1100	0252.5	016.8	345.0	036.0000	0478.6	063.3	68.50
201.0	000.1100	0258.7	017.1	344.7	036.0000	0477.0	063.2	68.46
202.0	000.1100	0263.8	017.2	344.4	036.0000	0475.1	063.3	68.40
203.0	000.1100	0270.3	017.5	344.1	036.0000	0473.0	063.3	68.34
204.0	000.1100	0277.5	017.7	343.7	036.0000	0469.9	063.3	68.26
205.0	000.1100	0285.9	018.0	343.3	036.0000	0466.4	063.3	68.17
206.0	000.1100	0292.2	018.2	343.0	036.0000	0462.9	063.4	68.06
207.0	000.1100	0296.9	018.4	342.7	036.0000	0459.8	063.5	67.94
208.0	000.1100	0303.7	018.6	342.3	036.0000	0456.4	063.5	67.82
209.0	000.1100	0312.4	018.8	342.0	036.0000	0453.4	063.6	67.73
210.0	000.1100	0320.5	019.1	341.6	036.0000	0452.0	063.7	67.66
211.0	000.1100	0327.7	019.3	341.3	036.0000	0451.3	063.8	67.60
212.0	000.1100	0336.2	019.5	340.9	036.0000	0450.8	063.9	67.55
213.0	000.1100	0345.6	019.8	340.6	036.0000	0449.5	064.0	67.48
214.0	000.1100	0354.3	020.0	340.2	036.0000	0448.5	064.2	67.40
215.0	000.1100	0362.1	020.2	339.9	036.0000	0447.1	064.3	67.31
216.0	000.1100	0368.9	020.4	339.6	036.0000	0446.1	064.5	67.22
217.0	000.1100	0374.2	020.5	339.3	036.0000	0445.4	064.8	67.12
218.0	000.1100	0379.6	020.7	339.0	036.0000	0444.7	065.0	67.03
219.0	000.1100	0384.9	020.8	338.8	036.0000	0444.0	065.2	66.93
220.0	000.1100	0390.2	020.9	338.5	036.0000	0443.5	065.5	66.83
221.0	000.1100	0395.6	021.1	338.3	036.0000	0442.8	065.7	66.72
222.0	000.1100	0400.9	021.2	338.0	036.0000	0442.4	066.0	66.62
223.0	000.1100	0405.6	021.3	337.8	036.0000	0442.4	066.3	66.52
224.0	000.1100	0409.4	021.4	337.6	036.0000	0442.6	066.6	66.43
225.0	000.1100	0412.7	021.5	337.4	036.0000	0442.8	066.9	66.33
226.0	000.1100	0415.5	021.6	337.3	036.0000	0442.8	067.2	66.22
227.0	000.1100	0418.2	021.6	337.1	036.0000	0442.7	067.6	66.10
228.0	000.1100	0420.8	021.7	336.9	036.0000	0442.7	067.9	65.99
229.0	000.1100	0423.4	021.7	336.8	036.0000	0442.8	068.3	65.88
230.0	000.1100	0426.2	021.8	336.6	036.0000	0442.8	068.6	65.77
231.0	000.1100	0429.1	021.9	336.5	036.0000	0442.7	068.9	65.65
232.0	000.1100	0432.0	022.0	336.4	036.0000	0442.5	069.3	65.53

01-08-2008    USGS 03 SEC Terrain Data

KXWA            BLED20050510ADD  
 Channel = 209C1  
 Max ERP = 36 kW  
 RCAMSL = 2561.2 M  
 N. Lat. 40 37 03.0  
 W. Lng. 105 19 40.0  
 Protected  
 60 dBu

KUWL.C  
 Channel = 211A  
 Max ERP = 0.11 kW  
 RCAMSL = 2699 M  
 N. Lat. 41 18 36.0  
 W. Lng. 105 27 17.0  
 Interfering  
 100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
292.0	036.0000	0182.6	052.9	213.9	000.1100	0353.7	068.8	38.02
293.0	036.0000	0199.7	054.4	215.3	000.1100	0364.3	068.2	38.58
294.0	036.0000	0217.3	055.8	216.7	000.1100	0372.7	067.6	39.05
295.0	036.0000	0233.9	057.2	218.0	000.1100	0379.7	066.9	39.49
296.0	036.0000	0251.4	058.5	219.3	000.1100	0386.8	066.2	39.92
297.0	036.0000	0260.7	059.2	220.1	000.1100	0391.0	065.4	40.32
298.0	036.0000	0265.1	059.5	220.6	000.1100	0393.5	064.4	40.72
299.0	036.0000	0275.1	060.3	221.5	000.1100	0398.1	063.6	41.14
300.0	036.0000	0289.2	061.3	222.6	000.1100	0403.8	062.8	41.58
301.0	036.0000	0308.2	062.7	224.1	000.1100	0409.6	062.0	42.00
302.0	036.0000	0315.7	063.2	224.8	000.1100	0412.0	061.1	42.40
303.0	036.0000	0317.3	063.4	225.1	000.1100	0413.0	060.0	42.81
304.0	036.0000	0322.2	063.7	225.7	000.1100	0414.6	059.0	43.23
305.0	036.0000	0325.2	063.9	226.1	000.1100	0415.7	058.0	43.65
306.0	036.0000	0340.0	065.0	227.3	000.1100	0419.1	057.1	44.07
307.0	036.0000	0365.7	066.8	229.3	000.1100	0424.3	056.3	44.49
308.0	036.0000	0374.8	067.4	230.2	000.1100	0426.8	055.3	44.93
309.0	036.0000	0373.7	067.3	230.4	000.1100	0427.4	054.1	45.38
310.0	036.0000	0370.9	067.1	230.4	000.1100	0427.5	052.9	45.84
311.0	036.0000	0374.5	067.4	230.9	000.1100	0428.9	051.8	46.30
312.0	036.0000	0383.1	068.0	231.8	000.1100	0431.3	050.8	46.76
313.0	036.0000	0391.8	068.5	232.7	000.1100	0433.9	049.7	47.23
314.0	036.0000	0403.7	069.3	233.8	000.1100	0437.0	048.6	47.71
315.0	036.0000	0415.8	070.1	235.0	000.1100	0439.5	047.6	48.17
316.0	036.0000	0421.5	070.5	235.7	000.1100	0441.0	046.4	48.64
317.0	036.0000	0423.3	070.7	236.1	000.1100	0441.8	045.2	49.13
318.0	036.0000	0433.3	071.3	237.3	000.1100	0444.1	044.1	49.64
319.0	036.0000	0445.0	072.2	238.6	000.1100	0446.8	043.0	50.15
320.0	036.0000	0437.2	071.6	238.1	000.1100	0445.8	041.7	50.68
321.0	036.0000	0417.1	070.2	236.4	000.1100	0442.3	040.3	51.20
322.0	036.0000	0399.9	069.1	234.8	000.1100	0439.1	039.0	51.69
323.0	036.0000	0385.1	068.1	233.4	000.1100	0436.0	037.8	52.17
324.0	036.0000	0370.0	067.1	231.8	000.1100	0431.4	036.6	52.59
325.0	036.0000	0358.7	066.3	230.5	000.1100	0427.6	035.5	53.02

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
326.0	036.0000	0350.3	065.7	229.3	000.1100	0424.3	034.4	53.45
327.0	036.0000	0358.0	066.3	230.0	000.1100	0426.2	033.2	54.07
328.0	036.0000	0369.3	067.0	231.1	000.1100	0429.4	032.0	54.74
329.0	036.0000	0379.2	067.7	232.0	000.1100	0432.1	030.7	55.44
330.0	036.0000	0389.9	068.4	233.1	000.1100	0435.3	029.4	56.21
331.0	036.0000	0400.6	069.1	234.2	000.1100	0438.0	028.2	57.03
332.0	036.0000	0410.4	069.8	235.3	000.1100	0440.0	026.9	57.88
333.0	036.0000	0420.6	070.5	236.5	000.1100	0442.5	025.6	58.79
334.0	036.0000	0431.8	071.2	238.0	000.1100	0445.4	024.3	59.75
335.0	036.0000	0439.8	071.8	239.0	000.1100	0447.6	023.0	60.73
336.0	036.0000	0442.4	072.0	239.1	000.1100	0447.8	021.7	61.68
337.0	036.0000	0442.7	072.0	238.7	000.1100	0447.0	020.5	62.62
338.0	036.0000	0442.4	072.0	238.1	000.1100	0445.7	019.2	63.57
339.0	036.0000	0444.5	072.2	237.9	000.1100	0445.2	018.0	64.57
340.0	036.0000	0447.7	072.4	237.8	000.1100	0445.1	016.7	65.61
341.0	036.0000	0451.0	072.6	237.6	000.1100	0444.8	015.4	66.66
342.0	036.0000	0453.6	072.8	237.1	000.1100	0443.8	014.1	67.79
343.0	036.0000	0463.0	073.5	238.7	000.1100	0446.9	012.7	69.63
344.0	036.0000	0472.5	074.2	240.5	000.1100	0450.8	011.3	71.60
345.0	036.0000	0478.5	074.7	241.1	000.1100	0452.2	009.9	73.52
346.0	036.0000	0477.0	074.6	238.3	000.1100	0446.1	008.7	75.20
347.0	036.0000	0467.9	073.9	230.6	000.1100	0427.9	007.7	76.40
348.0	036.0000	0465.5	073.7	224.2	000.1100	0410.2	006.7	77.85
349.0	036.0000	0466.8	073.8	217.7	000.1100	0377.7	005.6	79.74
350.0	036.0000	0458.8	073.2	203.3	000.1100	0272.5	005.2	79.32
351.0	036.0000	0444.3	072.1	186.5	000.1100	0114.2	005.7	72.03
352.0	036.0000	0439.6	071.8	173.7	000.1100	0087.5	005.8	69.16
353.0	036.0000	0439.9	071.8	161.6	000.1100	0125.7	005.9	72.07
354.0	036.0000	0449.7	072.5	147.5	000.1100	0135.6	005.7	73.46
355.0	036.0000	0464.4	073.6	130.2	000.1100	0214.1	005.5	77.24
356.0	036.0000	0472.2	074.2	117.8	000.1100	0254.9	006.2	76.73
357.0	036.0000	0475.0	074.4	111.1	000.1100	0263.1	007.2	74.65
358.0	036.0000	0479.7	074.8	105.3	000.1100	0276.6	008.3	72.92
359.0	036.0000	0484.1	075.1	101.3	000.1100	0275.9	009.5	70.78
000.0	036.0000	0491.0	075.5	097.3	000.1100	0279.9	010.7	68.85
001.0	036.0000	0506.3	076.5	091.8	000.1100	0285.9	012.0	67.07
002.0	036.0000	0518.4	077.3	088.5	000.1100	0281.3	013.3	64.96
003.0	036.0000	0523.6	077.6	087.7	000.1100	0282.2	014.7	63.24
004.0	036.0000	0533.2	078.2	086.1	000.1100	0285.2	016.1	62.16
005.0	036.0000	0546.9	078.9	084.3	000.1100	0287.0	017.6	60.98
006.0	036.0000	0554.6	079.3	083.9	000.1100	0287.5	019.0	59.81
007.0	036.0000	0542.8	078.7	086.5	000.1100	0284.6	020.3	58.73
008.0	036.0000	0522.0	077.5	090.3	000.1100	0283.5	021.4	57.78
009.0	036.0000	0497.6	076.0	094.7	000.1100	0287.1	022.6	56.98
010.0	036.0000	0477.0	074.6	098.3	000.1100	0276.0	023.8	55.72
011.0	036.0000	0464.8	073.7	100.5	000.1100	0275.3	025.1	54.77
012.0	036.0000	0471.1	074.1	099.5	000.1100	0274.7	026.4	53.85
013.0	036.0000	0483.2	075.0	097.8	000.1100	0277.6	027.8	53.04
014.0	036.0000	0496.9	075.9	096.3	000.1100	0283.4	029.2	52.34
015.0	036.0000	0512.1	076.9	094.8	000.1100	0286.6	030.6	51.59
016.0	036.0000	0524.6	077.7	093.9	000.1100	0288.4	032.1	50.87

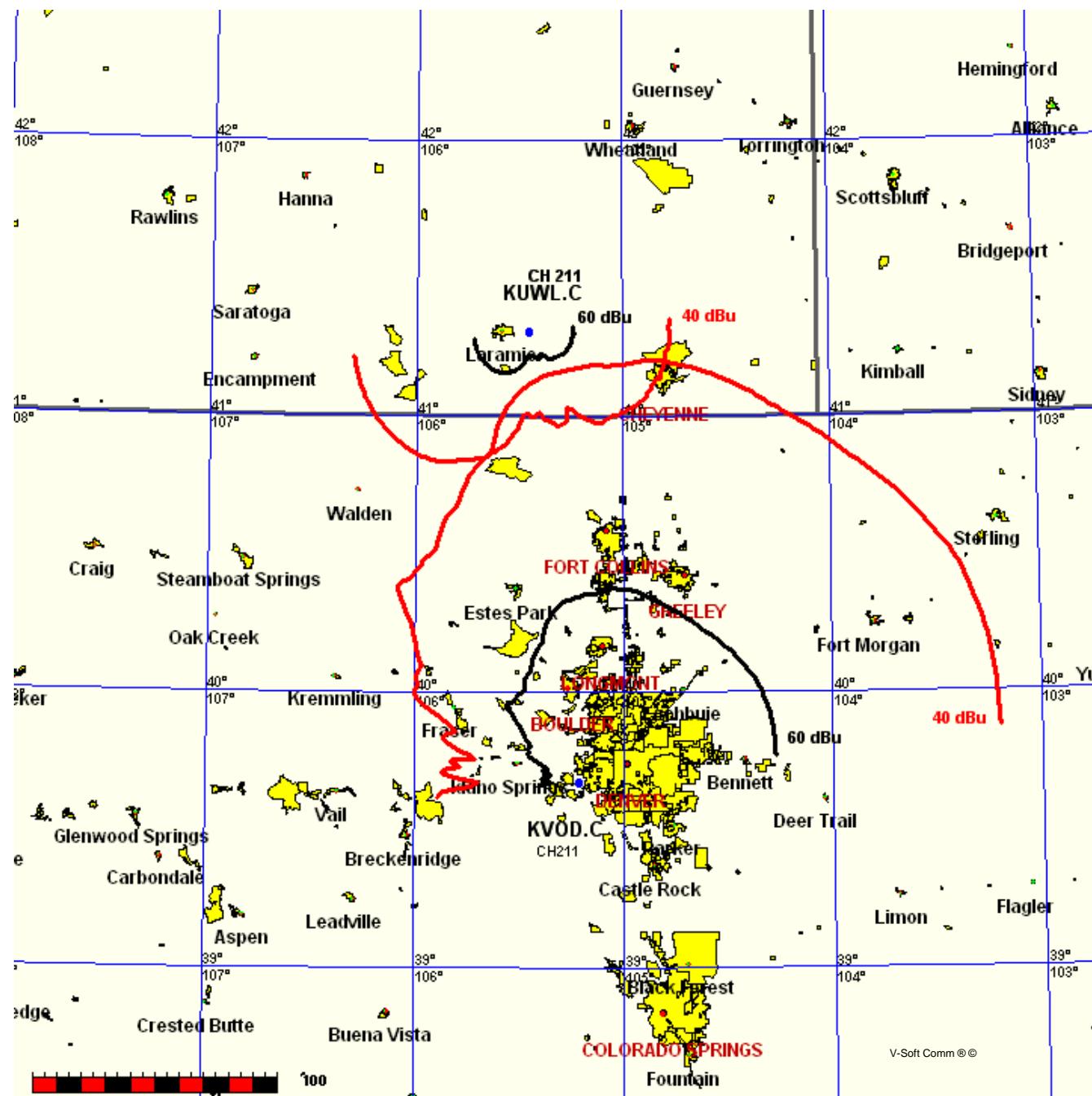
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
017.0	036.0000	0525.9	077.7	094.3	000.1100	0288.0	033.5	50.19
018.0	036.0000	0530.6	078.0	094.4	000.1100	0287.9	034.8	49.51
019.0	036.0000	0534.8	078.3	094.5	000.1100	0287.5	036.2	48.84
020.0	036.0000	0536.0	078.3	094.9	000.1100	0286.2	037.6	48.16
021.0	036.0000	0542.3	078.7	095.0	000.1100	0286.1	039.0	47.51
022.0	036.0000	0550.3	079.1	094.9	000.1100	0286.3	040.4	46.86
023.0	036.0000	0560.0	079.6	094.8	000.1100	0286.6	041.9	46.21
024.0	036.0000	0558.2	079.5	095.5	000.1100	0284.6	043.2	45.59
025.0	036.0000	0565.1	079.9	095.7	000.1100	0284.3	044.6	44.97
026.0	036.0000	0568.9	080.1	096.0	000.1100	0283.8	046.0	44.38
027.0	036.0000	0574.8	080.3	096.3	000.1100	0283.4	047.4	43.79
028.0	036.0000	0585.4	080.8	096.3	000.1100	0283.2	048.9	43.19
029.0	036.0000	0599.0	081.4	096.3	000.1100	0283.3	050.4	42.58
030.0	036.0000	0606.5	081.7	096.6	000.1100	0282.6	051.9	41.99
031.0	036.0000	0609.0	081.8	097.1	000.1100	0280.6	053.2	41.39
032.0	036.0000	0620.7	082.2	097.3	000.1100	0279.8	054.7	40.76
033.0	036.0000	0630.3	082.6	097.6	000.1100	0278.5	056.1	40.14
034.0	036.0000	0627.0	082.5	098.4	000.1100	0276.0	057.4	39.56
035.0	036.0000	0628.6	082.5	098.9	000.1100	0275.1	058.7	39.01
036.0	036.0000	0628.2	082.5	099.5	000.1100	0274.7	060.0	38.50
037.0	036.0000	0614.5	082.0	100.6	000.1100	0275.3	061.1	38.12
038.0	036.0000	0596.0	081.3	101.8	000.1100	0276.2	062.0	37.79
039.0	036.0000	0580.3	080.6	102.9	000.1100	0276.7	063.0	37.45
040.0	036.0000	0575.7	080.4	103.6	000.1100	0276.9	064.2	37.03
041.0	036.0000	0578.5	080.5	104.1	000.1100	0277.0	065.5	36.57
042.0	036.0000	0579.9	080.6	104.6	000.1100	0276.9	066.8	36.11
043.0	036.0000	0587.2	080.9	104.9	000.1100	0276.8	068.2	35.62
044.0	036.0000	0594.2	081.2	105.2	000.1100	0276.7	069.6	35.13
045.0	036.0000	0602.4	081.5	105.5	000.1100	0276.5	071.0	34.63
046.0	036.0000	0612.0	081.9	105.8	000.1100	0276.3	072.4	34.13
047.0	036.0000	0624.0	082.4	106.1	000.1100	0276.0	073.9	33.62
048.0	036.0000	0634.3	082.8	106.4	000.1100	0275.5	075.3	33.12
049.0	036.0000	0643.6	083.1	106.7	000.1100	0275.0	076.7	32.63
050.0	036.0000	0656.6	083.6	107.0	000.1100	0274.7	078.2	32.13
051.0	036.0000	0667.6	084.0	107.4	000.1100	0274.3	079.6	31.64
052.0	036.0000	0678.0	084.3	107.7	000.1100	0273.8	081.1	31.16

University Of Wyoming  
KUWL (New) v. KVOD.C

FMCommander Single Allocation Study  
01-08-2008

KUWL.C CH 211 A  
0.11 kW 2699 M COR  
Prot. = 60 dBu  
Intef. = 40 dBu

KVOD-C CH 211 C1 BPED20030728AFL  
44.0 kW, 2363 M COR DA  
Prot. = 60 dBu  
Intef. = 40 dBu



01-08-2008

USGS 03 SEC Terrain Data

FMOver Analysis

KUWL.C  
 Channel = 211A  
 Max ERP = 0.11 kW  
 RCAMSL = 2699 M  
 N. Lat. 41 18 36.0  
 W. Lng. 105 27 17.0  
 Protected  
 60 dBu

KVOD-C BPED20030728AFL  
 Channel = 211C1  
 Max ERP = 44 kW  
 RCAMSL = 2363 M  
 N. Lat. 39 40 25.0  
 W. Lng. 105 13 01.0  
 Interfering  
 40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
114.0	000.1100	0258.2	017.0	358.5	031.6518	0491.3	174.8	38.02
115.0	000.1100	0257.3	017.0	358.5	031.6192	0491.1	174.6	38.07
116.0	000.1100	0256.7	017.0	358.4	031.5897	0491.1	174.3	38.12
117.0	000.1100	0256.0	017.0	358.4	031.5581	0491.0	174.1	38.17
118.0	000.1100	0254.7	016.9	358.3	031.5226	0490.9	173.8	38.22
119.0	000.1100	0254.4	016.9	358.3	031.4915	0490.8	173.6	38.27
120.0	000.1100	0252.6	016.8	358.2	031.4513	0490.8	173.4	38.31
121.0	000.1100	0248.6	016.7	358.1	031.3969	0490.8	173.2	38.34
122.0	000.1100	0245.6	016.6	358.0	031.3482	0490.7	173.0	38.37
123.0	000.1100	0243.6	016.5	357.9	031.3052	0490.7	172.8	38.41
124.0	000.1100	0239.0	016.3	357.8	031.2460	0490.6	172.7	38.43
125.0	000.1100	0233.0	016.1	357.7	031.1785	0490.5	172.6	38.44
126.0	000.1100	0227.5	015.9	357.6	031.1131	0490.3	172.5	38.45
127.0	000.1100	0223.2	015.8	357.5	031.0552	0490.0	172.4	38.46
128.0	000.1100	0219.7	015.6	357.4	031.0013	0489.7	172.3	38.48
129.0	000.1100	0217.4	015.5	357.3	030.9541	0489.5	172.1	38.50
130.0	000.1100	0214.7	015.4	357.3	030.9042	0489.3	172.0	38.52
131.0	000.1100	0211.4	015.3	357.2	030.8517	0489.1	171.9	38.53
132.0	000.1100	0207.9	015.2	357.1	030.7977	0488.8	171.8	38.54
133.0	000.1100	0203.8	015.0	357.0	030.7399	0488.7	171.7	38.55
134.0	000.1100	0198.6	014.8	356.9	030.6789	0488.7	171.7	38.55
135.0	000.1100	0195.9	014.7	356.8	030.6289	0488.7	171.6	38.57
136.0	000.1100	0193.6	014.7	356.7	030.5809	0488.7	171.5	38.58
137.0	000.1100	0191.6	014.6	356.6	030.5345	0488.8	171.3	38.60
138.0	000.1100	0190.4	014.5	356.6	030.4907	0488.8	171.2	38.63
139.0	000.1100	0189.7	014.5	356.5	030.4490	0488.9	171.1	38.65
140.0	000.1100	0189.4	014.5	356.4	030.4085	0489.0	170.9	38.68
141.0	000.1100	0188.0	014.5	356.3	030.3635	0489.0	170.8	38.70
142.0	000.1100	0184.3	014.3	356.2	030.3094	0489.1	170.8	38.70
143.0	000.1100	0179.6	014.2	356.1	030.2515	0489.1	170.8	38.69
144.0	000.1100	0172.0	013.9	356.0	030.1808	0488.9	170.9	38.65
145.0	000.1100	0163.5	013.5	355.9	030.1046	0488.8	171.1	38.60
146.0	000.1100	0153.2	013.0	355.8	030.0207	0488.8	171.4	38.52
147.0	000.1100	0140.7	012.4	355.6	029.9293	0488.8	171.8	38.41
148.0	000.1100	0130.9	012.0	355.5	029.8535	0488.8	172.1	38.34
149.0	000.1100	0121.1	011.5	355.3	029.7817	0488.7	172.4	38.26
150.0	000.1100	0108.4	011.0	355.2	029.7009	0488.2	172.8	38.14

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
151.0	000.1100	0101.6	010.6	355.1	029.6430	0487.7	173.1	38.08
152.0	000.1100	0099.1	010.5	355.0	029.6017	0487.3	173.1	38.05
153.0	000.1100	0098.8	010.5	355.0	029.5687	0486.9	173.0	38.06
154.0	000.1100	0093.6	010.2	354.9	029.5186	0486.2	173.2	38.00
155.0	000.1100	0097.4	010.4	354.9	029.4997	0485.9	173.0	38.04
156.0	000.1100	0106.1	010.9	354.8	029.4933	0485.8	172.5	38.15
157.0	000.1100	0118.3	011.4	354.8	029.4916	0485.8	171.9	38.28
158.0	000.1100	0123.2	011.6	354.8	029.4670	0485.3	171.6	38.33
159.0	000.1100	0123.9	011.7	354.7	029.4317	0484.7	171.6	38.33
160.0	000.1100	0124.5	011.7	354.7	029.3956	0484.0	171.5	38.33
161.0	000.1100	0125.4	011.7	354.6	029.3600	0483.3	171.4	38.33
162.0	000.1100	0125.7	011.7	354.5	029.3226	0482.5	171.3	38.33
163.0	000.1100	0124.4	011.7	354.5	029.2827	0481.8	171.4	38.31
164.0	000.1100	0120.7	011.5	354.4	029.2392	0480.9	171.5	38.26
165.0	000.1100	0115.1	011.3	354.3	029.1944	0480.0	171.7	38.19
166.0	000.1100	0109.7	011.0	354.2	029.1512	0479.0	171.9	38.12
167.0	000.1100	0106.3	010.9	354.2	029.1117	0478.2	172.0	38.07
168.0	000.1100	0104.5	010.8	354.1	029.0745	0477.4	172.1	38.04
169.0	000.1100	0102.2	010.7	354.0	029.0376	0476.7	172.2	38.00
170.0	000.1100	0099.1	010.5	354.0	029.0009	0476.1	172.3	37.96
171.0	000.1100	0095.8	010.3	353.9	028.9653	0475.6	172.5	37.91
172.0	000.1100	0091.7	010.1	353.9	028.9304	0475.0	172.7	37.85
173.0	000.1100	0087.4	009.9	353.8	028.8970	0474.5	172.9	37.78
174.0	000.1100	0088.0	009.9	353.7	028.8648	0474.0	172.9	37.78
175.0	000.1100	0090.1	010.0	353.7	028.8321	0473.5	172.8	37.79
176.0	000.1100	0092.7	010.2	353.6	028.7982	0473.0	172.7	37.81
177.0	000.1100	0093.6	010.2	353.6	028.7646	0472.5	172.6	37.80
178.0	000.1100	0093.2	010.2	353.5	028.7318	0472.0	172.6	37.78
179.0	000.1100	0091.0	010.1	353.5	028.7011	0471.6	172.8	37.74
180.0	000.1100	0086.8	009.9	353.4	028.6737	0471.2	173.0	37.67
181.0	000.1100	0087.3	009.9	353.4	028.6414	0470.7	173.0	37.66
182.0	000.1100	0088.3	009.9	353.3	028.6082	0470.2	173.0	37.66
183.0	000.1100	0091.0	010.1	353.2	028.5718	0469.7	172.9	37.67
184.0	000.1100	0095.0	010.3	353.2	028.5322	0469.0	172.7	37.69
185.0	000.1100	0100.2	010.6	353.1	028.4891	0468.2	172.5	37.72
186.0	000.1100	0108.7	011.0	353.0	028.4383	0467.3	172.1	37.78
187.0	000.1100	0120.3	011.5	352.9	028.3796	0466.3	171.6	37.85
188.0	000.1100	0134.4	012.1	352.8	028.3122	0464.9	171.1	37.94
189.0	000.1100	0146.4	012.7	352.6	028.2445	0463.3	170.6	38.01
190.0	000.1100	0157.3	013.2	352.5	028.1761	0461.5	170.2	38.06
191.0	000.1100	0169.4	013.7	352.4	028.1025	0459.5	169.8	38.11
192.0	000.1100	0180.8	014.2	352.3	028.0311	0457.5	169.4	38.14
193.0	000.1100	0186.9	014.4	352.2	027.9733	0455.9	169.3	38.13
194.0	000.1100	0194.6	014.7	352.1	027.9098	0454.1	169.1	38.12
195.0	000.1100	0203.9	015.0	351.9	027.8408	0452.0	168.9	38.12
196.0	000.1100	0213.4	015.4	351.8	027.7685	0449.8	168.7	38.12
197.0	000.1100	0220.8	015.7	351.7	027.7005	0447.7	168.6	38.10
198.0	000.1100	0229.9	016.0	351.5	027.6261	0445.5	168.4	38.09
199.0	000.1100	0242.5	016.5	351.4	027.5383	0443.0	168.1	38.09
200.0	000.1100	0252.5	016.8	351.2	027.4583	0440.6	167.9	38.07
201.0	000.1100	0258.7	017.1	351.1	027.3894	0438.8	167.9	38.04

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
202.0	000.1100	0263.8	017.2	351.0	027.3240	0437.2	167.8	38.00
203.0	000.1100	0270.3	017.5	350.9	027.2538	0435.4	167.8	37.96
204.0	000.1100	0277.5	017.7	350.7	027.1806	0433.7	167.8	37.93
205.0	000.1100	0285.9	018.0	350.6	027.1032	0431.7	167.7	37.89
206.0	000.1100	0292.2	018.2	350.5	027.0330	0429.9	167.7	37.84
207.0	000.1100	0296.9	018.4	350.4	026.9686	0428.3	167.8	37.79
208.0	000.1100	0303.7	018.6	350.2	026.8971	0426.3	167.8	37.74
209.0	000.1100	0312.4	018.8	350.1	026.8188	0424.2	167.8	37.68
210.0	000.1100	0320.5	019.1	350.0	026.7366	0422.1	167.8	37.63
211.0	000.1100	0327.7	019.3	349.8	026.6471	0420.0	167.9	37.56
212.0	000.1100	0336.2	019.5	349.7	026.5531	0417.7	167.9	37.49
213.0	000.1100	0345.6	019.8	349.5	026.4555	0415.0	168.0	37.41
214.0	000.1100	0354.3	020.0	349.4	026.3622	0412.2	168.1	37.33
215.0	000.1100	0362.1	020.2	349.3	026.2730	0409.5	168.2	37.24
216.0	000.1100	0368.9	020.4	349.1	026.1887	0406.9	168.3	37.15
217.0	000.1100	0374.2	020.5	349.0	026.1115	0404.4	168.5	37.06
218.0	000.1100	0379.6	020.7	348.9	026.0339	0402.0	168.7	36.96
219.0	000.1100	0384.9	020.8	348.8	025.9574	0399.7	168.9	36.87
220.0	000.1100	0390.2	020.9	348.7	025.8823	0397.4	169.1	36.77
221.0	000.1100	0395.6	021.1	348.6	025.8079	0395.2	169.3	36.68
222.0	000.1100	0400.9	021.2	348.5	025.7345	0392.9	169.5	36.58
223.0	000.1100	0405.6	021.3	348.4	025.6652	0390.8	169.7	36.49
224.0	000.1100	0409.4	021.4	348.3	025.6009	0388.8	170.0	36.39
225.0	000.1100	0412.7	021.5	348.2	025.5406	0386.8	170.2	36.29
226.0	000.1100	0415.5	021.6	348.1	025.4832	0385.0	170.5	36.19
227.0	000.1100	0418.2	021.6	348.0	025.4276	0383.4	170.8	36.10
228.0	000.1100	0420.8	021.7	347.9	025.3733	0381.8	171.1	36.00
229.0	000.1100	0423.4	021.7	347.9	025.3211	0380.1	171.4	35.90
230.0	000.1100	0426.2	021.8	347.8	025.2689	0378.5	171.7	35.81
231.0	000.1100	0429.1	021.9	347.7	025.2174	0376.8	172.0	35.71
232.0	000.1100	0432.0	022.0	347.6	025.1675	0375.1	172.3	35.61
233.0	000.1100	0434.9	022.0	347.6	025.1184	0373.6	172.6	35.51
234.0	000.1100	0437.5	022.1	347.5	025.0726	0372.1	173.0	35.41

01-08-2008 USGS 03 SEC Terrain Data

KVOD-C BPED20030728AFL  
 Channel = 211C1  
 Max ERP = 44 kW  
 RCAMSL = 2363 M  
 N. Lat. 39 40 25.0  
 W. Lng. 105 13 01.0  
 Protected  
 60 dBu

KUWL.C  
 Channel = 211A  
 Max ERP = 0.11 kW  
 RCAMSL = 2699 M  
 N. Lat. 41 18 36.0  
 W. Lng. 105 27 17.0  
 Interfering  
 40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
294.0	002.9062	0042.4	015.5	178.0	000.1100	0093.2	175.5	05.06
295.0	003.0319	0050.1	017.3	178.5	000.1100	0092.3	174.5	05.22
296.0	003.1603	0065.7	020.0	179.3	000.1100	0089.4	172.9	05.39
297.0	003.2913	0080.7	022.3	179.9	000.1100	0086.9	171.6	05.55
298.0	003.4250	0087.8	023.4	180.2	000.1100	0086.5	170.7	05.69
299.0	003.5614	0089.3	023.8	180.2	000.1100	0086.5	170.2	05.79
300.0	003.7004	0085.7	023.6	180.1	000.1100	0086.6	169.9	05.84
301.0	003.8812	0085.1	023.8	180.1	000.1100	0086.7	169.5	05.92
302.0	004.0663	0088.7	024.5	180.2	000.1100	0086.5	168.7	06.05
303.0	004.2557	0090.2	024.9	180.3	000.1100	0086.5	168.1	06.16
304.0	004.4495	0084.4	024.4	180.0	000.1100	0086.7	168.1	06.18
305.0	004.6475	0081.7	024.3	179.9	000.1100	0086.9	167.8	06.24
306.0	004.8499	0078.5	024.1	179.8	000.1100	0087.3	167.6	06.29
307.0	005.0565	0086.7	025.5	180.1	000.1100	0086.7	166.4	06.49
308.0	005.2675	0095.0	026.8	180.3	000.1100	0086.5	165.2	06.70
309.0	005.4828	0103.5	028.2	180.6	000.1100	0086.7	164.0	06.93
310.0	005.7024	0107.2	028.9	180.7	000.1100	0086.7	163.2	07.08
311.0	005.9911	0112.6	029.9	180.9	000.1100	0087.0	162.1	07.28
312.0	006.2869	0121.5	031.2	181.1	000.1100	0087.4	160.8	07.53
313.0	006.5898	0135.2	033.1	181.5	000.1100	0087.9	159.2	07.85
314.0	006.8999	0154.8	035.8	182.1	000.1100	0088.3	157.0	08.25
315.0	007.2171	0178.6	038.6	182.7	000.1100	0089.7	154.6	08.70
316.0	007.5414	0210.6	041.5	183.3	000.1100	0092.3	152.1	09.20
317.0	007.8729	0227.0	043.0	183.5	000.1100	0093.3	150.5	09.50
318.0	008.2115	0222.8	043.1	183.4	000.1100	0092.5	149.9	09.57
319.0	008.5572	0211.4	042.6	183.0	000.1100	0091.1	149.8	09.56
320.0	008.9100	0199.7	042.1	182.7	000.1100	0089.6	149.7	09.53
321.0	009.3509	0195.2	042.1	182.5	000.1100	0089.1	149.1	09.60
322.0	009.8025	0191.0	042.2	182.3	000.1100	0088.6	148.6	09.68
323.0	010.2647	0188.2	042.3	182.1	000.1100	0088.3	148.0	09.77
324.0	010.7376	0187.9	042.7	182.0	000.1100	0088.2	147.3	09.90
325.0	011.2211	0187.5	043.0	181.8	000.1100	0088.1	146.5	10.02
326.0	011.7153	0181.0	042.9	181.5	000.1100	0087.9	146.2	10.07
327.0	012.2201	0174.7	042.7	181.2	000.1100	0087.6	146.0	10.10

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
328.0	012.7355	0171.4	042.7	181.0	000.1100	0087.3	145.5	10.17
329.0	013.2616	0175.3	043.4	180.9	000.1100	0087.1	144.5	10.35
330.0	013.7984	0184.7	044.6	180.9	000.1100	0087.0	143.1	10.60
331.0	014.3961	0193.8	045.7	180.8	000.1100	0087.0	141.8	10.85
332.0	015.0065	0203.1	046.8	180.8	000.1100	0086.8	140.4	11.11
333.0	015.6295	0209.4	047.6	180.6	000.1100	0086.7	139.3	11.32
334.0	016.2652	0212.5	048.2	180.4	000.1100	0086.6	138.4	11.49
335.0	016.9136	0208.1	048.2	180.1	000.1100	0086.6	138.0	11.57
336.0	017.5747	0207.3	048.5	179.8	000.1100	0087.1	137.4	11.70
337.0	018.2484	0220.5	049.9	179.7	000.1100	0087.4	135.8	12.02
338.0	018.9348	0236.4	051.5	179.7	000.1100	0087.7	134.0	12.37
339.0	019.6339	0245.7	052.5	179.4	000.1100	0088.6	132.7	12.65
340.0	020.3456	0258.0	053.7	179.2	000.1100	0089.7	131.3	12.96
341.0	020.9484	0269.3	054.8	179.0	000.1100	0091.0	129.9	13.26
342.0	021.5600	0278.3	055.7	178.7	000.1100	0091.8	128.8	13.50
343.0	022.1804	0286.0	056.5	178.4	000.1100	0092.6	127.7	13.72
344.0	022.8096	0287.9	056.9	178.0	000.1100	0093.2	127.1	13.86
345.0	023.4476	0297.3	057.8	177.7	000.1100	0093.6	126.0	14.07
346.0	024.0944	0331.8	060.4	177.4	000.1100	0093.7	123.2	14.56
347.0	024.7500	0361.3	062.7	177.2	000.1100	0093.6	120.8	14.98
348.0	025.4144	0383.0	064.4	176.8	000.1100	0093.7	118.9	15.30
349.0	026.0876	0403.6	066.0	176.3	000.1100	0093.3	117.2	15.58
350.0	026.7696	0422.9	067.5	175.8	000.1100	0092.3	115.6	15.84
351.0	027.3215	0437.1	068.6	175.3	000.1100	0090.9	114.3	16.01
352.0	027.8791	0453.1	069.9	174.7	000.1100	0089.5	112.9	16.22
353.0	028.4423	0467.4	071.2	174.1	000.1100	0088.2	111.6	16.42
354.0	029.0111	0476.3	072.1	173.5	000.1100	0087.3	110.7	16.55
355.0	029.5856	0487.1	073.1	172.8	000.1100	0087.8	109.8	16.75
356.0	030.1657	0488.9	073.4	172.1	000.1100	0090.9	109.5	16.90
357.0	030.7514	0488.7	073.6	171.5	000.1100	0094.2	109.4	17.03
358.0	031.3428	0490.7	074.0	170.8	000.1100	0096.7	109.2	17.16
359.0	031.9398	0492.9	074.3	170.1	000.1100	0098.9	109.0	17.26
000.0	032.5424	0496.2	074.8	169.3	000.1100	0101.1	108.8	17.38
001.0	032.8838	0503.0	075.3	168.6	000.1100	0103.2	108.5	17.51
002.0	033.2271	0506.6	075.7	167.9	000.1100	0104.7	108.5	17.56
003.0	033.5721	0504.7	075.7	167.2	000.1100	0105.9	108.8	17.53
004.0	033.9189	0502.8	075.7	166.5	000.1100	0107.6	109.2	17.51
005.0	034.2675	0506.2	076.0	165.8	000.1100	0110.4	109.3	17.59
006.0	034.6178	0512.9	076.5	165.1	000.1100	0114.6	109.3	17.74
007.0	034.9700	0524.5	077.3	164.3	000.1100	0119.3	109.0	17.94
008.0	035.3239	0535.5	078.1	163.4	000.1100	0123.1	108.9	18.10
009.0	035.6796	0545.7	078.8	162.6	000.1100	0125.2	108.8	18.17
010.0	036.0371	0552.0	079.2	161.9	000.1100	0125.7	109.1	18.14
011.0	035.8383	0557.2	079.4	161.2	000.1100	0125.5	109.6	18.03
012.0	035.6400	0560.4	079.5	160.5	000.1100	0125.0	110.2	17.89
013.0	035.4423	0566.2	079.8	159.9	000.1100	0124.3	110.7	17.76
014.0	035.2451	0570.5	079.9	159.2	000.1100	0124.0	111.4	17.62
015.0	035.0485	0575.0	080.1	158.6	000.1100	0123.9	112.1	17.49
016.0	034.8524	0578.9	080.2	158.0	000.1100	0123.1	112.8	17.32
017.0	034.6569	0580.7	080.2	157.4	000.1100	0121.3	113.7	17.11
018.0	034.4619	0582.0	080.2	156.9	000.1100	0116.9	114.6	16.80

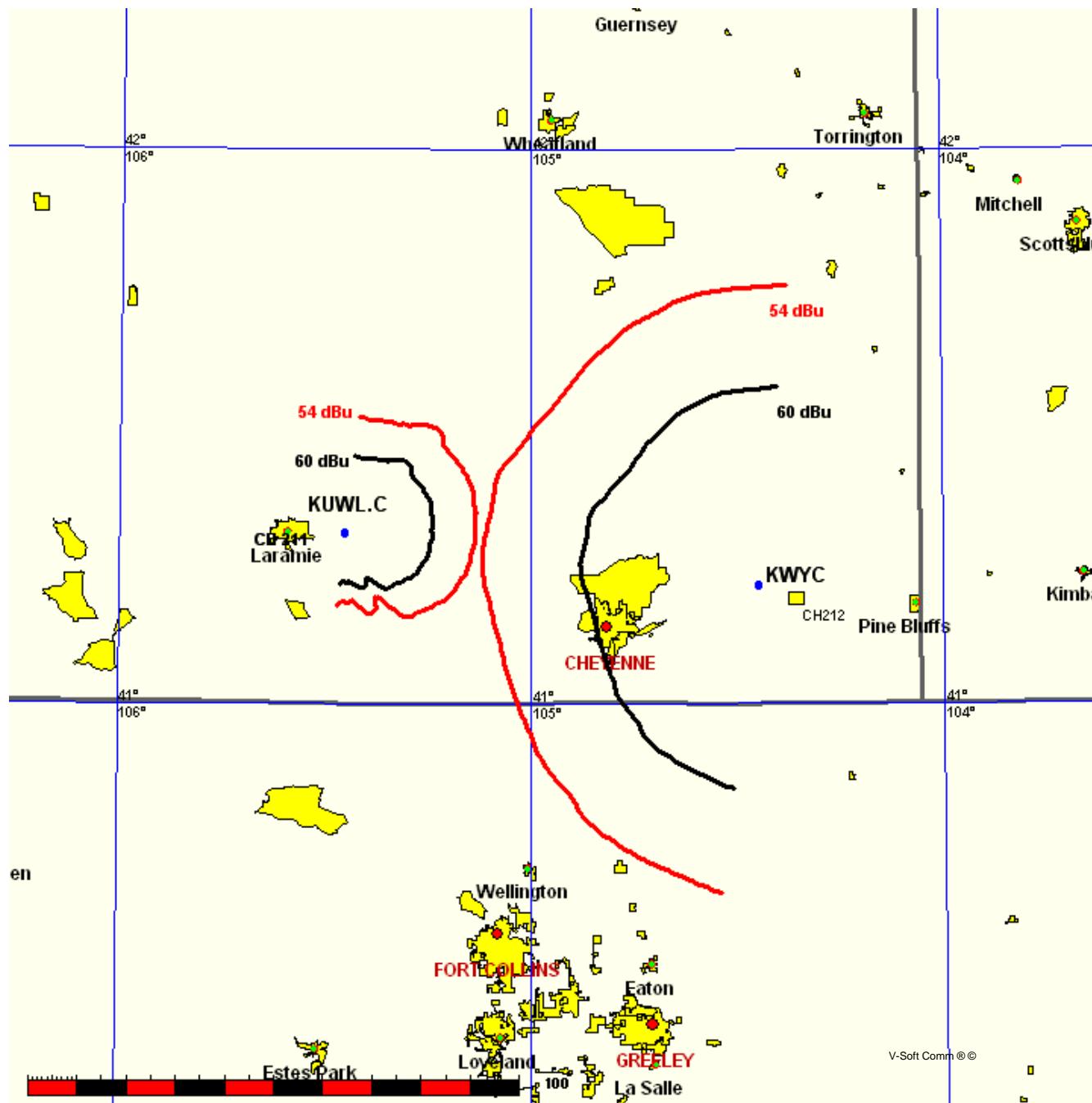
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
019.0	034.2675	0583.4	080.2	156.3	000.1100	0110.3	115.5	16.43
020.0	034.0736	0584.7	080.2	155.8	000.1100	0104.3	116.5	16.07
021.0	033.5721	0585.7	080.1	155.4	000.1100	0100.7	117.5	15.77
022.0	033.0743	0586.7	080.0	154.9	000.1100	0096.9	118.6	15.46
023.0	032.5802	0587.5	079.9	154.5	000.1100	0094.4	119.7	15.18
024.0	032.0899	0588.6	079.8	154.1	000.1100	0093.6	120.9	14.96
025.0	031.6033	0589.6	079.6	153.8	000.1100	0094.1	122.0	14.78
026.0	031.1204	0591.4	079.6	153.4	000.1100	0096.5	123.2	14.66
027.0	030.6412	0593.3	079.5	153.0	000.1100	0098.7	124.3	14.53
028.0	030.1657	0595.2	079.4	152.7	000.1100	0099.2	125.5	14.34
029.0	029.6939	0598.8	079.4	152.3	000.1100	0099.0	126.6	14.12
030.0	029.2259	0602.9	079.4	152.0	000.1100	0099.1	127.8	13.91
031.0	029.4055	0605.2	079.5	151.6	000.1100	0099.7	128.9	13.73
032.0	029.5856	0606.2	079.6	151.3	000.1100	0100.7	130.1	13.55
033.0	029.7663	0606.1	079.7	150.9	000.1100	0101.8	131.3	13.35
034.0	029.9475	0605.0	079.7	150.6	000.1100	0102.8	132.5	13.15
035.0	030.1293	0604.1	079.7	150.4	000.1100	0104.7	133.7	12.96
036.0	030.3116	0603.3	079.8	150.1	000.1100	0107.3	135.0	12.80
037.0	030.4945	0602.4	079.8	149.8	000.1100	0110.3	136.2	12.64
038.0	030.6779	0601.5	079.8	149.6	000.1100	0113.5	137.5	12.48
039.0	030.8619	0600.5	079.8	149.4	000.1100	0116.4	138.8	12.31
040.0	031.0464	0599.4	079.9	149.2	000.1100	0119.1	140.1	12.12
041.0	031.8648	0598.0	080.1	148.9	000.1100	0122.1	141.4	11.97
042.0	032.6939	0596.4	080.3	148.7	000.1100	0124.7	142.6	11.79
043.0	033.5337	0594.5	080.5	148.4	000.1100	0126.8	143.9	11.61
044.0	034.3841	0592.1	080.6	148.2	000.1100	0128.9	145.2	11.43
045.0	035.2451	0589.8	080.8	148.0	000.1100	0130.9	146.6	11.25
046.0	036.1168	0588.4	081.0	147.8	000.1100	0132.6	147.9	11.07
047.0	036.9991	0587.6	081.2	147.6	000.1100	0134.3	149.3	10.89
048.0	037.8921	0587.4	081.5	147.4	000.1100	0136.0	150.6	10.72
049.0	038.7957	0588.0	081.7	147.2	000.1100	0137.9	152.0	10.55
050.0	039.7100	0587.9	082.0	147.1	000.1100	0139.9	153.4	10.38
051.0	040.1291	0587.9	082.1	147.0	000.1100	0141.2	154.8	10.19
052.0	040.5504	0588.2	082.2	146.9	000.1100	0142.4	156.2	10.00
053.0	040.9739	0589.5	082.4	146.8	000.1100	0143.7	157.6	09.80
054.0	041.3996	0591.5	082.5	146.6	000.1100	0145.1	159.0	09.60

University Of Wyoming  
KUWL (New) v. KWYC (Lic)

FMCommander Single Allocation Study  
01-08-2008

KUWL.C CH 211 A  
0.11 kW 2699 M COR  
Prot. = 60 dBu  
Intef. = 54 dBu

KWYC CH 212 C2 BLED20050825AFD  
20.0 kW, 1848 M COR  
Prot. = 60 dBu  
Intef. = 54 dBu



01-08-2008

USGS 03 SEC Terrain Data

FMOver Analysis

KUWL.C  
 Channel = 211A  
 Max ERP = 0.11 kW  
 RCAMSL = 2699 M  
 N. Lat. 41 18 36.0  
 W. Lng. 105 27 17.0  
 Protected  
 60 dBu

KWYC BLED20050825AFD  
 Channel = 212C2  
 Max ERP = 20 kW  
 RCAMSL = 1848 M  
 N. Lat. 41 13 01.0  
 W. Lng. 104 26 53.0  
 Interfering  
 54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
037.0	000.1100	0292.5	018.2	289.1	020.0000	0096.8	077.4	47.64
038.0	000.1100	0299.1	018.4	289.2	020.0000	0096.9	077.0	47.75
039.0	000.1100	0304.2	018.6	289.2	020.0000	0096.9	076.7	47.86
040.0	000.1100	0308.5	018.7	289.2	020.0000	0096.9	076.3	47.95
041.0	000.1100	0313.0	018.9	289.2	020.0000	0096.9	076.0	48.06
042.0	000.1100	0315.9	018.9	289.2	020.0000	0096.9	075.6	48.15
043.0	000.1100	0316.7	019.0	289.1	020.0000	0096.8	075.3	48.23
044.0	000.1100	0317.4	019.0	289.0	020.0000	0096.7	075.0	48.32
045.0	000.1100	0316.7	019.0	288.9	020.0000	0096.6	074.7	48.39
046.0	000.1100	0313.5	018.9	288.7	020.0000	0096.4	074.5	48.45
047.0	000.1100	0305.5	018.6	288.4	020.0000	0096.2	074.3	48.49
048.0	000.1100	0298.0	018.4	288.1	020.0000	0096.0	074.2	48.52
049.0	000.1100	0290.6	018.2	287.8	020.0000	0095.7	074.0	48.55
050.0	000.1100	0287.6	018.1	287.6	020.0000	0095.5	073.8	48.60
051.0	000.1100	0287.8	018.1	287.5	020.0000	0095.4	073.5	48.67
052.0	000.1100	0284.4	017.9	287.3	020.0000	0095.3	073.3	48.72
053.0	000.1100	0282.4	017.9	287.1	020.0000	0095.1	073.1	48.77
054.0	000.1100	0284.9	018.0	287.0	020.0000	0095.0	072.8	48.85
055.0	000.1100	0286.7	018.0	286.9	020.0000	0094.9	072.5	48.93
056.0	000.1100	0287.1	018.0	286.7	020.0000	0094.8	072.3	48.99
057.0	000.1100	0289.8	018.1	286.6	020.0000	0094.7	072.0	49.07
058.0	000.1100	0292.4	018.2	286.5	020.0000	0094.6	071.7	49.15
059.0	000.1100	0295.0	018.3	286.4	020.0000	0094.5	071.4	49.23
060.0	000.1100	0297.3	018.4	286.3	020.0000	0094.4	071.1	49.30
061.0	000.1100	0298.9	018.4	286.1	020.0000	0094.3	070.9	49.38
062.0	000.1100	0297.8	018.4	285.9	020.0000	0094.2	070.7	49.42
063.0	000.1100	0295.1	018.3	285.7	020.0000	0094.0	070.5	49.46
064.0	000.1100	0296.9	018.4	285.5	020.0000	0094.0	070.3	49.53
065.0	000.1100	0301.5	018.5	285.4	020.0000	0093.9	069.9	49.62
066.0	000.1100	0301.5	018.5	285.2	020.0000	0093.9	069.7	49.68
067.0	000.1100	0300.4	018.5	284.9	020.0000	0093.8	069.6	49.72
068.0	000.1100	0303.0	018.6	284.8	020.0000	0093.8	069.3	49.80
069.0	000.1100	0303.9	018.6	284.6	020.0000	0093.8	069.1	49.86
070.0	000.1100	0303.8	018.6	284.3	020.0000	0093.8	068.9	49.91
071.0	000.1100	0303.6	018.6	284.1	020.0000	0093.8	068.7	49.96
072.0	000.1100	0302.6	018.5	283.9	020.0000	0093.8	068.6	50.00
073.0	000.1100	0301.7	018.5	283.6	020.0000	0093.8	068.5	50.05

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
074.0	000.1100	0300.5	018.5	283.4	020.0000	0093.8	068.3	50.08
075.0	000.1100	0299.0	018.4	283.1	020.0000	0093.9	068.2	50.12
076.0	000.1100	0296.8	018.4	282.8	020.0000	0093.9	068.1	50.14
077.0	000.1100	0293.7	018.3	282.6	020.0000	0093.9	068.1	50.16
078.0	000.1100	0292.1	018.2	282.3	020.0000	0094.0	068.0	50.19
079.0	000.1100	0292.6	018.2	282.0	020.0000	0094.0	067.9	50.23
080.0	000.1100	0294.0	018.3	281.8	020.0000	0094.1	067.7	50.28
081.0	000.1100	0294.5	018.3	281.6	020.0000	0094.1	067.6	50.32
082.0	000.1100	0293.9	018.3	281.3	020.0000	0094.1	067.5	50.35
083.0	000.1100	0288.9	018.1	281.0	020.0000	0094.2	067.6	50.33
084.0	000.1100	0287.3	018.0	280.7	020.0000	0094.2	067.5	50.35
085.0	000.1100	0286.4	018.0	280.5	020.0000	0094.3	067.5	50.37
086.0	000.1100	0285.4	018.0	280.2	020.0000	0094.3	067.4	50.38
087.0	000.1100	0283.4	017.9	279.9	020.0000	0094.4	067.4	50.39
088.0	000.1100	0281.8	017.9	279.7	020.0000	0094.5	067.4	50.40
089.0	000.1100	0281.2	017.8	279.4	020.0000	0094.6	067.4	50.41
090.0	000.1100	0282.7	017.9	279.1	020.0000	0094.7	067.3	50.45
091.0	000.1100	0285.0	018.0	278.9	020.0000	0094.8	067.1	50.49
092.0	000.1100	0286.2	018.0	278.6	020.0000	0094.9	067.1	50.52
093.0	000.1100	0287.4	018.0	278.3	020.0000	0095.0	067.0	50.55
094.0	000.1100	0288.3	018.1	278.1	020.0000	0095.1	067.0	50.57
095.0	000.1100	0286.0	018.0	277.8	020.0000	0095.2	067.0	50.55
096.0	000.1100	0283.8	017.9	277.5	020.0000	0095.2	067.1	50.54
097.0	000.1100	0281.3	017.8	277.3	020.0000	0095.3	067.2	50.52
098.0	000.1100	0277.0	017.7	277.0	020.0000	0095.4	067.3	50.48
099.0	000.1100	0275.0	017.6	276.7	020.0000	0095.4	067.4	50.46
100.0	000.1100	0275.0	017.6	276.5	020.0000	0095.5	067.4	50.45
101.0	000.1100	0275.7	017.7	276.2	020.0000	0095.5	067.4	50.45
102.0	000.1100	0276.3	017.7	276.0	020.0000	0095.4	067.4	50.45
103.0	000.1100	0276.7	017.7	275.7	020.0000	0095.3	067.4	50.44
104.0	000.1100	0277.0	017.7	275.4	020.0000	0095.2	067.5	50.42
105.0	000.1100	0276.8	017.7	275.2	020.0000	0095.0	067.5	50.39
106.0	000.1100	0276.1	017.7	274.9	020.0000	0094.9	067.6	50.36
107.0	000.1100	0274.7	017.6	274.7	020.0000	0094.8	067.7	50.32
108.0	000.1100	0273.4	017.6	274.4	020.0000	0094.7	067.9	50.28
109.0	000.1100	0271.6	017.5	274.2	020.0000	0094.5	068.0	50.23
110.0	000.1100	0266.6	017.3	274.0	020.0000	0094.4	068.2	50.15
111.0	000.1100	0263.3	017.2	273.8	020.0000	0094.3	068.4	50.08
112.0	000.1100	0261.8	017.2	273.5	020.0000	0094.2	068.6	50.03
113.0	000.1100	0260.2	017.1	273.3	020.0000	0094.0	068.7	49.98
114.0	000.1100	0258.2	017.0	273.1	020.0000	0093.9	068.9	49.92
115.0	000.1100	0257.3	017.0	272.9	020.0000	0093.8	069.1	49.87
116.0	000.1100	0256.7	017.0	272.7	020.0000	0093.6	069.2	49.82
117.0	000.1100	0256.0	017.0	272.5	020.0000	0093.5	069.3	49.77
118.0	000.1100	0254.7	016.9	272.3	020.0000	0093.3	069.5	49.71
119.0	000.1100	0254.4	016.9	272.0	020.0000	0093.1	069.7	49.66
120.0	000.1100	0252.6	016.8	271.9	020.0000	0093.0	069.8	49.59
121.0	000.1100	0248.6	016.7	271.7	020.0000	0092.9	070.1	49.51
122.0	000.1100	0245.6	016.6	271.5	020.0000	0092.7	070.4	49.43
123.0	000.1100	0243.6	016.5	271.4	020.0000	0092.6	070.6	49.36
124.0	000.1100	0239.0	016.3	271.2	020.0000	0092.5	070.9	49.27

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
125.0	000.1100	0233.0	016.1	271.2	020.0000	0092.4	071.2	49.17
126.0	000.1100	0227.5	015.9	271.1	020.0000	0092.3	071.5	49.07
127.0	000.1100	0223.2	015.8	271.0	020.0000	0092.2	071.8	48.98
128.0	000.1100	0219.7	015.6	270.9	020.0000	0092.1	072.1	48.89
129.0	000.1100	0217.4	015.5	270.7	020.0000	0092.0	072.3	48.82
130.0	000.1100	0214.7	015.4	270.6	020.0000	0091.9	072.6	48.74
131.0	000.1100	0211.4	015.3	270.5	020.0000	0091.8	072.9	48.66
132.0	000.1100	0207.9	015.2	270.4	020.0000	0091.7	073.1	48.58
133.0	000.1100	0203.8	015.0	270.4	020.0000	0091.6	073.4	48.49
134.0	000.1100	0198.6	014.8	270.3	020.0000	0091.6	073.7	48.40
135.0	000.1100	0195.9	014.7	270.2	020.0000	0091.5	074.0	48.32
136.0	000.1100	0193.6	014.7	270.1	020.0000	0091.4	074.2	48.25
137.0	000.1100	0191.6	014.6	270.0	020.0000	0091.3	074.5	48.18
138.0	000.1100	0190.4	014.5	269.9	020.0000	0091.2	074.7	48.11
139.0	000.1100	0189.7	014.5	269.8	020.0000	0091.1	074.9	48.05
140.0	000.1100	0189.4	014.5	269.7	020.0000	0091.0	075.1	47.98
141.0	000.1100	0188.0	014.5	269.6	020.0000	0090.9	075.3	47.91
142.0	000.1100	0184.3	014.3	269.6	020.0000	0090.8	075.6	47.83
143.0	000.1100	0179.6	014.2	269.6	020.0000	0090.8	075.9	47.75
144.0	000.1100	0172.0	013.9	269.6	020.0000	0090.9	076.3	47.65
145.0	000.1100	0163.5	013.5	269.8	020.0000	0091.1	076.7	47.55
146.0	000.1100	0153.2	013.0	270.0	020.0000	0091.3	077.1	47.43
147.0	000.1100	0140.7	012.4	270.2	020.0000	0091.5	077.7	47.30
148.0	000.1100	0130.9	012.0	270.4	020.0000	0091.7	078.1	47.20
149.0	000.1100	0121.1	011.5	270.6	020.0000	0091.9	078.5	47.10
150.0	000.1100	0108.4	011.0	270.9	020.0000	0092.2	078.9	46.98
151.0	000.1100	0101.6	010.6	271.1	020.0000	0092.3	079.3	46.90
152.0	000.1100	0099.1	010.5	271.1	020.0000	0092.3	079.5	46.84
153.0	000.1100	0098.8	010.5	271.0	020.0000	0092.3	079.7	46.79
154.0	000.1100	0093.6	010.2	271.1	020.0000	0092.4	079.9	46.72
155.0	000.1100	0097.4	010.4	271.0	020.0000	0092.2	080.0	46.69
156.0	000.1100	0106.1	010.9	270.6	020.0000	0091.9	080.0	46.67
157.0	000.1100	0118.3	011.4	270.2	020.0000	0091.5	080.0	46.66

01-08-2008 USGS 03 SEC Terrain Data

KWYC BLED20050825AFD  
 Channel = 212C2  
 Max ERP = 20 kW  
 RCAMSL = 1848 M  
 N. Lat. 41 13 01.0  
 W. Lng. 104 26 53.0  
 Protected  
 60 dBu

KUWL.C  
 Channel = 211A  
 Max ERP = 0.11 kW  
 RCAMSL = 2699 M  
 N. Lat. 41 18 36.0  
 W. Lng. 105 27 17.0  
 Interfering  
 54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
217.0	020.0000	0107.7	038.5	123.7	000.1100	0240.7	073.8	32.50
218.0	020.0000	0106.6	038.4	123.5	000.1100	0241.6	073.2	32.73
219.0	020.0000	0104.7	038.1	123.2	000.1100	0242.8	072.5	32.99
220.0	020.0000	0102.5	037.7	122.9	000.1100	0243.9	071.9	33.23
221.0	020.0000	0100.5	037.4	122.6	000.1100	0244.7	071.3	33.47
222.0	020.0000	0099.2	037.2	122.3	000.1100	0245.1	070.7	33.69
223.0	020.0000	0098.3	037.0	122.1	000.1100	0245.3	070.1	33.90
224.0	020.0000	0097.9	037.0	122.0	000.1100	0245.6	069.5	34.12
225.0	020.0000	0097.4	036.9	121.8	000.1100	0246.0	068.8	34.34
226.0	020.0000	0097.0	036.8	121.6	000.1100	0246.4	068.2	34.57
227.0	020.0000	0096.7	036.8	121.4	000.1100	0246.9	067.6	34.79
228.0	020.0000	0096.4	036.7	121.2	000.1100	0247.6	067.0	35.03
229.0	020.0000	0096.0	036.6	121.0	000.1100	0248.4	066.4	35.26
230.0	020.0000	0095.7	036.6	120.8	000.1100	0249.2	065.8	35.49
231.0	020.0000	0095.4	036.5	120.6	000.1100	0250.1	065.3	35.73
232.0	020.0000	0094.9	036.4	120.3	000.1100	0251.3	064.7	35.97
233.0	020.0000	0094.0	036.3	120.0	000.1100	0252.7	064.2	36.20
234.0	020.0000	0092.8	036.1	119.6	000.1100	0253.9	063.7	36.42
235.0	020.0000	0091.4	035.8	119.1	000.1100	0254.3	063.2	36.60
236.0	020.0000	0090.0	035.6	118.7	000.1100	0254.4	062.7	36.77
237.0	020.0000	0089.2	035.4	118.3	000.1100	0254.6	062.3	36.95
238.0	020.0000	0088.7	035.3	117.9	000.1100	0254.8	061.8	37.14
239.0	020.0000	0088.2	035.2	117.6	000.1100	0255.2	061.3	37.33
240.0	020.0000	0087.7	035.1	117.2	000.1100	0255.7	060.8	37.53
241.0	020.0000	0087.2	035.0	116.8	000.1100	0256.2	060.3	37.72
242.0	020.0000	0086.7	034.9	116.4	000.1100	0256.5	059.9	37.90
243.0	020.0000	0086.2	034.9	116.0	000.1100	0256.7	059.5	38.08
244.0	020.0000	0085.7	034.8	115.5	000.1100	0257.0	059.0	38.26
245.0	020.0000	0085.3	034.7	115.1	000.1100	0257.2	058.6	38.43
246.0	020.0000	0084.9	034.6	114.7	000.1100	0257.5	058.2	38.60
247.0	020.0000	0084.7	034.6	114.2	000.1100	0257.9	057.8	38.78
248.0	020.0000	0084.4	034.5	113.8	000.1100	0258.6	057.4	38.97
249.0	020.0000	0084.2	034.5	113.3	000.1100	0259.5	057.0	39.16
250.0	020.0000	0084.1	034.5	112.9	000.1100	0260.4	056.6	39.35

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
251.0	020.0000	0084.0	034.4	112.4	000.1100	0261.2	056.2	39.53
252.0	020.0000	0083.8	034.4	111.9	000.1100	0261.9	055.8	39.70
253.0	020.0000	0083.6	034.3	111.4	000.1100	0262.6	055.5	39.87
254.0	020.0000	0083.3	034.3	110.9	000.1100	0263.5	055.1	40.03
255.0	020.0000	0083.0	034.2	110.4	000.1100	0264.8	054.8	40.20
256.0	020.0000	0082.7	034.2	109.8	000.1100	0267.7	054.5	40.42
257.0	020.0000	0082.5	034.1	109.3	000.1100	0270.6	054.2	40.64
258.0	020.0000	0082.6	034.2	108.7	000.1100	0272.2	053.9	40.83
259.0	020.0000	0082.9	034.2	108.2	000.1100	0273.1	053.5	41.00
260.0	020.0000	0083.4	034.3	107.7	000.1100	0273.8	053.2	41.17
261.0	020.0000	0084.1	034.4	107.2	000.1100	0274.5	052.8	41.35
262.0	020.0000	0084.8	034.6	106.7	000.1100	0275.1	052.4	41.53
263.0	020.0000	0085.3	034.7	106.1	000.1100	0275.9	052.0	41.69
264.0	020.0000	0085.7	034.8	105.5	000.1100	0276.5	051.7	41.84
265.0	020.0000	0086.1	034.8	104.9	000.1100	0276.8	051.4	41.96
266.0	020.0000	0086.6	034.9	104.3	000.1100	0277.0	051.2	42.09
267.0	020.0000	0087.7	035.1	103.7	000.1100	0276.9	050.8	42.24
268.0	020.0000	0089.0	035.4	103.1	000.1100	0276.8	050.4	42.40
269.0	020.0000	0090.1	035.6	102.5	000.1100	0276.6	050.0	42.54
270.0	020.0000	0091.3	035.8	101.9	000.1100	0276.3	049.6	42.67
271.0	020.0000	0092.3	036.0	101.2	000.1100	0275.8	049.3	42.78
272.0	020.0000	0093.1	036.1	100.5	000.1100	0275.3	049.1	42.86
273.0	020.0000	0093.8	036.3	099.8	000.1100	0274.9	048.9	42.93
274.0	020.0000	0094.4	036.4	099.1	000.1100	0274.9	048.7	43.00
275.0	020.0000	0095.0	036.5	098.3	000.1100	0276.1	048.6	43.10
276.0	020.0000	0095.4	036.5	097.6	000.1100	0278.7	048.4	43.23
277.0	020.0000	0095.4	036.5	096.8	000.1100	0282.0	048.4	43.34
278.0	020.0000	0095.1	036.5	096.1	000.1100	0283.7	048.5	43.37
279.0	020.0000	0094.7	036.4	095.3	000.1100	0285.1	048.6	43.38
280.0	020.0000	0094.4	036.3	094.6	000.1100	0287.3	048.7	43.40
281.0	020.0000	0094.2	036.3	093.8	000.1100	0288.4	048.8	43.40
282.0	020.0000	0094.0	036.3	093.1	000.1100	0287.5	048.9	43.33
283.0	020.0000	0093.9	036.3	092.4	000.1100	0286.5	049.0	43.25
284.0	020.0000	0093.8	036.3	091.6	000.1100	0285.8	049.2	43.17
285.0	020.0000	0093.8	036.3	090.9	000.1100	0284.8	049.3	43.09
286.0	020.0000	0094.2	036.3	090.2	000.1100	0283.1	049.4	43.00
287.0	020.0000	0095.0	036.5	089.4	000.1100	0281.8	049.4	42.93
288.0	020.0000	0095.9	036.6	088.7	000.1100	0281.2	049.5	42.89
289.0	020.0000	0096.7	036.8	087.9	000.1100	0281.9	049.6	42.89
290.0	020.0000	0097.5	036.9	087.2	000.1100	0283.1	049.7	42.88
291.0	020.0000	0098.2	037.0	086.4	000.1100	0284.7	049.8	42.87
292.0	020.0000	0098.6	037.1	085.7	000.1100	0285.8	050.0	42.82
293.0	020.0000	0098.5	037.1	085.1	000.1100	0286.3	050.3	42.72
294.0	020.0000	0097.7	036.9	084.5	000.1100	0286.8	050.8	42.57
295.0	020.0000	0096.8	036.8	083.9	000.1100	0287.4	051.2	42.40
296.0	020.0000	0095.7	036.6	083.4	000.1100	0288.0	051.7	42.23
297.0	020.0000	0093.7	036.2	083.1	000.1100	0288.7	052.3	41.99
298.0	020.0000	0091.7	035.9	082.7	000.1100	0290.1	053.0	41.78
299.0	020.0000	0091.1	035.8	082.2	000.1100	0293.1	053.4	41.70
300.0	020.0000	0090.8	035.7	081.7	000.1100	0294.4	053.9	41.58
301.0	020.0000	0090.4	035.6	081.3	000.1100	0294.6	054.3	41.41

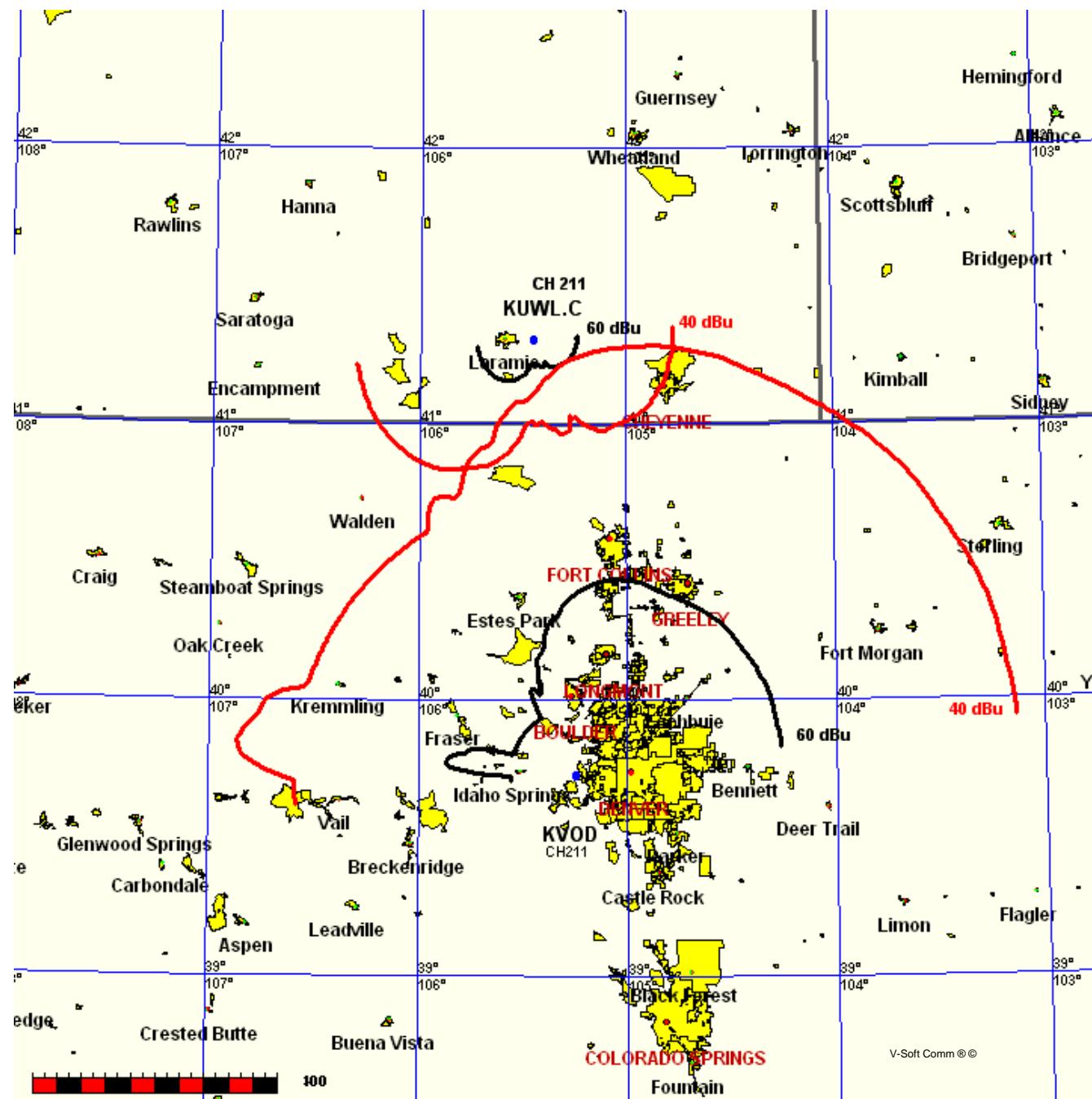
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
302.0	020.0000	0090.0	035.6	080.8	000.1100	0294.4	054.8	41.22
303.0	020.0000	0089.6	035.5	080.4	000.1100	0294.2	055.2	41.03
304.0	020.0000	0089.2	035.4	080.0	000.1100	0294.0	055.7	40.84
305.0	020.0000	0088.7	035.3	079.6	000.1100	0293.5	056.2	40.63
306.0	020.0000	0088.1	035.2	079.2	000.1100	0292.9	056.7	40.41
307.0	020.0000	0087.6	035.1	078.9	000.1100	0292.5	057.2	40.19
308.0	020.0000	0087.2	035.0	078.5	000.1100	0292.2	057.7	39.98
309.0	020.0000	0086.9	035.0	078.2	000.1100	0292.1	058.2	39.78
310.0	020.0000	0086.8	035.0	077.8	000.1100	0292.2	058.7	39.60
311.0	020.0000	0086.8	035.0	077.4	000.1100	0292.6	059.2	39.43
312.0	020.0000	0087.1	035.0	077.0	000.1100	0293.5	059.7	39.29
313.0	020.0000	0087.5	035.1	076.6	000.1100	0294.8	060.1	39.15
314.0	020.0000	0088.0	035.2	076.2	000.1100	0296.1	060.6	39.02
315.0	020.0000	0088.6	035.3	075.8	000.1100	0297.2	061.0	38.89
316.0	020.0000	0089.2	035.4	075.5	000.1100	0298.1	061.5	38.74
317.0	020.0000	0089.9	035.6	075.1	000.1100	0298.9	062.0	38.59
318.0	020.0000	0090.6	035.7	074.7	000.1100	0299.5	062.5	38.43
319.0	020.0000	0091.3	035.8	074.3	000.1100	0300.0	063.0	38.26
320.0	020.0000	0092.2	036.0	074.0	000.1100	0300.5	063.5	38.10
321.0	020.0000	0093.1	036.1	073.6	000.1100	0300.9	064.0	37.93
322.0	020.0000	0093.7	036.2	073.3	000.1100	0301.3	064.5	37.75
323.0	020.0000	0094.1	036.3	073.0	000.1100	0301.6	065.1	37.55
324.0	020.0000	0094.5	036.4	072.8	000.1100	0301.9	065.6	37.36
325.0	020.0000	0095.0	036.5	072.5	000.1100	0302.1	066.2	37.16
326.0	020.0000	0095.5	036.5	072.3	000.1100	0302.3	066.8	36.96
327.0	020.0000	0095.9	036.6	072.1	000.1100	0302.5	067.4	36.75
328.0	020.0000	0096.6	036.7	071.8	000.1100	0302.7	068.0	36.55
329.0	020.0000	0097.6	036.9	071.6	000.1100	0303.1	068.6	36.35
330.0	020.0000	0098.9	037.1	071.3	000.1100	0303.3	069.1	36.16
331.0	020.0000	0100.3	037.4	071.0	000.1100	0303.6	069.7	35.95
332.0	020.0000	0101.7	037.6	070.7	000.1100	0303.8	070.3	35.75
333.0	020.0000	0102.5	037.7	070.5	000.1100	0303.8	071.0	35.53
334.0	020.0000	0102.8	037.8	070.4	000.1100	0303.8	071.6	35.30
335.0	020.0000	0103.0	037.8	070.3	000.1100	0303.8	072.3	35.07
336.0	020.0000	0103.4	037.9	070.2	000.1100	0303.8	072.9	34.84
337.0	020.0000	0103.8	037.9	070.1	000.1100	0303.8	073.6	34.62

University Of Wyoming  
KUWL (New) v. KVOD (Lic)

FMCommander Single Allocation Study  
01-08-2008

KUWL.C CH 211 A  
0.11 kW 2699 M COR  
Prot. = 60 dBu  
Intef. = 40 dBu

KVOD CH 211 C1 BLED19851115KB  
50.0 kW, 2333 M COR  
Prot. = 60 dBu  
Intef. = 40 dBu



01-08-2008

USGS 03 SEC Terrain Data

FMOver Analysis

KUWL.C  
 Channel = 211A  
 Max ERP = 0.11 kW  
 RCAMSL = 2699 M  
 N. Lat. 41 18 36.0  
 W. Lng. 105 27 17.0  
 Protected  
 60 dBu

KVOD BLED19851115KB  
 Channel = 211C1  
 Max ERP = 50 kW  
 RCAMSL = 2333 M  
 N. Lat. 39 43 49.0  
 W. Lng. 105 14 59.0  
 Interfering  
 40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
114.0	000.1100	0258.2	017.0	359.4	050.0000	0397.2	168.5	39.74
115.0	000.1100	0257.3	017.0	359.3	050.0000	0396.6	168.2	39.78
116.0	000.1100	0256.7	017.0	359.3	050.0000	0395.9	168.0	39.82
117.0	000.1100	0256.0	017.0	359.2	050.0000	0395.3	167.7	39.86
118.0	000.1100	0254.7	016.9	359.2	050.0000	0394.6	167.5	39.89
119.0	000.1100	0254.4	016.9	359.1	050.0000	0393.9	167.2	39.93
120.0	000.1100	0252.6	016.8	359.1	050.0000	0393.0	167.0	39.95
121.0	000.1100	0248.6	016.7	359.0	050.0000	0391.7	166.8	39.96
122.0	000.1100	0245.6	016.6	358.9	050.0000	0390.4	166.7	39.97
123.0	000.1100	0243.6	016.5	358.8	050.0000	0389.3	166.5	39.99
124.0	000.1100	0239.0	016.3	358.7	050.0000	0387.8	166.3	39.99
125.0	000.1100	0233.0	016.1	358.6	050.0000	0386.0	166.2	39.97
126.0	000.1100	0227.5	015.9	358.5	050.0000	0384.1	166.1	39.95
127.0	000.1100	0223.2	015.8	358.4	050.0000	0382.5	166.0	39.94
128.0	000.1100	0219.7	015.6	358.3	050.0000	0381.1	165.9	39.94
129.0	000.1100	0217.4	015.5	358.2	050.0000	0379.9	165.7	39.94
130.0	000.1100	0214.7	015.4	358.1	050.0000	0378.5	165.6	39.94
131.0	000.1100	0211.4	015.3	358.0	050.0000	0377.2	165.5	39.94
132.0	000.1100	0207.9	015.2	357.9	050.0000	0375.8	165.4	39.93
133.0	000.1100	0203.8	015.0	357.8	050.0000	0374.4	165.3	39.91
134.0	000.1100	0198.6	014.8	357.7	050.0000	0372.6	165.2	39.88
135.0	000.1100	0195.9	014.7	357.6	050.0000	0371.1	165.1	39.86
136.0	000.1100	0193.6	014.7	357.5	050.0000	0369.5	165.0	39.85
137.0	000.1100	0191.6	014.6	357.5	050.0000	0367.7	164.9	39.83
138.0	000.1100	0190.4	014.5	357.4	050.0000	0366.1	164.8	39.81
139.0	000.1100	0189.7	014.5	357.3	050.0000	0364.6	164.7	39.80
140.0	000.1100	0189.4	014.5	357.2	050.0000	0363.1	164.5	39.79
141.0	000.1100	0188.0	014.5	357.2	050.0000	0361.4	164.4	39.77
142.0	000.1100	0184.3	014.3	357.1	050.0000	0359.2	164.4	39.72
143.0	000.1100	0179.6	014.2	357.0	050.0000	0356.9	164.3	39.67
144.0	000.1100	0172.0	013.9	356.8	050.0000	0354.3	164.5	39.58
145.0	000.1100	0163.5	013.5	356.7	050.0000	0351.6	164.7	39.48
146.0	000.1100	0153.2	013.0	356.5	050.0000	0349.0	164.9	39.36
147.0	000.1100	0140.7	012.4	356.4	050.0000	0346.2	165.3	39.21
148.0	000.1100	0130.9	012.0	356.2	050.0000	0344.1	165.6	39.10
149.0	000.1100	0121.1	011.5	356.1	050.0000	0342.5	165.9	39.01
150.0	000.1100	0108.4	011.0	356.0	050.0000	0341.1	166.3	38.90

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
151.0	000.1100	0101.6	010.6	355.9	050.0000	0340.0	166.6	38.83
152.0	000.1100	0099.1	010.5	355.8	050.0000	0339.2	166.6	38.80
153.0	000.1100	0098.8	010.5	355.7	050.0000	0338.6	166.5	38.80
154.0	000.1100	0093.6	010.2	355.6	050.0000	0337.6	166.7	38.74
155.0	000.1100	0097.4	010.4	355.6	050.0000	0337.3	166.5	38.78
156.0	000.1100	0106.1	010.9	355.6	050.0000	0337.2	166.0	38.86
157.0	000.1100	0118.3	011.4	355.6	050.0000	0337.2	165.4	38.96
158.0	000.1100	0123.2	011.6	355.5	050.0000	0336.7	165.1	39.00
159.0	000.1100	0123.9	011.7	355.5	050.0000	0335.9	165.1	38.99
160.0	000.1100	0124.5	011.7	355.4	050.0000	0335.1	165.0	38.99
161.0	000.1100	0125.4	011.7	355.4	050.0000	0334.3	164.9	38.98
162.0	000.1100	0125.7	011.7	355.3	050.0000	0333.3	164.8	38.97
163.0	000.1100	0124.4	011.7	355.2	050.0000	0332.2	164.8	38.94
164.0	000.1100	0120.7	011.5	355.1	050.0000	0330.5	165.0	38.88
165.0	000.1100	0115.1	011.3	355.0	050.0000	0328.3	165.2	38.78
166.0	000.1100	0109.7	011.0	355.0	050.0000	0326.1	165.4	38.69
167.0	000.1100	0106.3	010.9	354.9	050.0000	0323.7	165.5	38.61
168.0	000.1100	0104.5	010.8	354.8	050.0000	0321.4	165.6	38.54
169.0	000.1100	0102.2	010.7	354.8	050.0000	0319.0	165.7	38.47
170.0	000.1100	0099.1	010.5	354.7	050.0000	0316.5	165.8	38.39
171.0	000.1100	0095.8	010.3	354.6	050.0000	0314.3	166.0	38.31
172.0	000.1100	0091.7	010.1	354.6	050.0000	0312.2	166.2	38.23
173.0	000.1100	0087.4	009.9	354.5	050.0000	0310.4	166.4	38.15
174.0	000.1100	0088.0	009.9	354.4	050.0000	0308.8	166.3	38.13
175.0	000.1100	0090.1	010.0	354.4	050.0000	0307.3	166.2	38.11
176.0	000.1100	0092.7	010.2	354.3	050.0000	0305.7	166.1	38.11
177.0	000.1100	0093.6	010.2	354.3	050.0000	0304.1	166.1	38.08
178.0	000.1100	0093.2	010.2	354.2	050.0000	0302.6	166.1	38.05
179.0	000.1100	0091.0	010.1	354.1	050.0000	0301.2	166.2	38.00
180.0	000.1100	0086.8	009.9	354.1	050.0000	0300.0	166.5	37.93
181.0	000.1100	0087.3	009.9	354.0	050.0000	0298.6	166.5	37.91
182.0	000.1100	0088.3	009.9	354.0	050.0000	0297.1	166.4	37.89
183.0	000.1100	0091.0	010.1	353.9	050.0000	0295.6	166.3	37.88
184.0	000.1100	0095.0	010.3	353.8	050.0000	0294.0	166.1	37.89
185.0	000.1100	0100.2	010.6	353.8	050.0000	0292.4	165.9	37.90
186.0	000.1100	0108.7	011.0	353.7	050.0000	0290.5	165.5	37.93
187.0	000.1100	0120.3	011.5	353.6	050.0000	0288.5	165.1	37.97
188.0	000.1100	0134.4	012.1	353.4	050.0000	0286.1	164.5	38.03
189.0	000.1100	0146.4	012.7	353.3	050.0000	0283.7	164.0	38.08
190.0	000.1100	0157.3	013.2	353.2	050.0000	0281.2	163.6	38.11
191.0	000.1100	0169.4	013.7	353.1	050.0000	0278.4	163.2	38.15
192.0	000.1100	0180.8	014.2	352.9	050.0000	0275.6	162.8	38.17
193.0	000.1100	0186.9	014.4	352.8	050.0000	0273.6	162.7	38.16
194.0	000.1100	0194.6	014.7	352.7	050.0000	0272.0	162.5	38.16
195.0	000.1100	0203.9	015.0	352.6	050.0000	0270.2	162.3	38.17
196.0	000.1100	0213.4	015.4	352.4	050.0000	0268.6	162.1	38.19
197.0	000.1100	0220.8	015.7	352.3	050.0000	0268.4	161.9	38.21
198.0	000.1100	0229.9	016.0	352.2	050.0000	0268.7	161.7	38.25
199.0	000.1100	0242.5	016.5	352.0	050.0000	0268.7	161.4	38.30
200.0	000.1100	0252.5	016.8	351.9	050.0000	0269.8	161.3	38.35
201.0	000.1100	0258.7	017.1	351.7	050.0000	0271.2	161.2	38.38

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
202.0	000.1100	0263.8	017.2	351.6	050.0000	0272.5	161.2	38.40
203.0	000.1100	0270.3	017.5	351.5	050.0000	0273.2	161.2	38.42
204.0	000.1100	0277.5	017.7	351.3	050.0000	0273.3	161.1	38.43
205.0	000.1100	0285.9	018.0	351.2	050.0000	0272.6	161.1	38.43
206.0	000.1100	0292.2	018.2	351.1	050.0000	0271.5	161.1	38.41
207.0	000.1100	0296.9	018.4	350.9	050.0000	0270.3	161.1	38.38
208.0	000.1100	0303.7	018.6	350.8	050.0000	0268.7	161.1	38.35
209.0	000.1100	0312.4	018.8	350.7	050.0000	0266.7	161.1	38.33
210.0	000.1100	0320.5	019.1	350.5	050.0000	0264.7	161.2	38.29
211.0	000.1100	0327.7	019.3	350.4	050.0000	0262.6	161.2	38.25
212.0	000.1100	0336.2	019.5	350.2	050.0000	0260.4	161.3	38.21
213.0	000.1100	0345.6	019.8	350.1	050.0000	0257.9	161.3	38.16
214.0	000.1100	0354.3	020.0	349.9	050.0000	0255.1	161.4	38.10
215.0	000.1100	0362.1	020.2	349.8	050.0000	0252.3	161.5	38.04
216.0	000.1100	0368.9	020.4	349.7	050.0000	0249.6	161.6	37.97
217.0	000.1100	0374.2	020.5	349.6	050.0000	0247.1	161.8	37.90
218.0	000.1100	0379.6	020.7	349.4	050.0000	0244.5	162.0	37.82
219.0	000.1100	0384.9	020.8	349.3	050.0000	0242.1	162.1	37.74
220.0	000.1100	0390.2	020.9	349.2	050.0000	0239.5	162.3	37.66
221.0	000.1100	0395.6	021.1	349.1	050.0000	0236.7	162.5	37.58
222.0	000.1100	0400.9	021.2	349.0	050.0000	0233.9	162.8	37.49
223.0	000.1100	0405.6	021.3	348.9	050.0000	0231.1	163.0	37.39
224.0	000.1100	0409.4	021.4	348.8	050.0000	0228.3	163.2	37.30
225.0	000.1100	0412.7	021.5	348.7	050.0000	0225.5	163.5	37.20
226.0	000.1100	0415.5	021.6	348.6	050.0000	0222.6	163.8	37.09
227.0	000.1100	0418.2	021.6	348.5	050.0000	0220.0	164.1	36.99
228.0	000.1100	0420.8	021.7	348.4	050.0000	0217.8	164.4	36.90
229.0	000.1100	0423.4	021.7	348.3	050.0000	0215.9	164.7	36.81
230.0	000.1100	0426.2	021.8	348.2	050.0000	0214.4	165.0	36.73
231.0	000.1100	0429.1	021.9	348.2	050.0000	0213.1	165.3	36.65
232.0	000.1100	0432.0	022.0	348.1	050.0000	0212.2	165.6	36.58
233.0	000.1100	0434.9	022.0	348.0	050.0000	0211.3	165.9	36.50
234.0	000.1100	0437.5	022.1	347.9	050.0000	0210.6	166.2	36.43

01-08-2008 USGS 03 SEC Terrain Data

KVOD BLED19851115KB  
 Channel = 211C1  
 Max ERP = 50 kW  
 RCAMSL = 2333 M  
 N. Lat. 39 43 49.0  
 W. Lng. 105 14 59.0  
 Protected  
 60 dBu

KUWL.C  
 Channel = 211A  
 Max ERP = 0.11 kW  
 RCAMSL = 2699 M  
 N. Lat. 41 18 36.0  
 W. Lng. 105 27 17.0  
 Interfering  
 40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
294.0	050.0000	0006.8	026.5	182.4	000.1100	0088.9	164.8	06.86
295.0	050.0000	0007.3	026.5	182.3	000.1100	0088.8	164.3	06.93
296.0	050.0000	0004.5	026.5	182.3	000.1100	0088.6	163.9	07.01
297.0	050.0000	-0007.1	026.5	182.2	000.1100	0088.5	163.5	07.08
298.0	050.0000	-0026.4	026.5	182.1	000.1100	0088.4	163.1	07.15
299.0	050.0000	-0049.6	026.5	182.1	000.1100	0088.3	162.7	07.23
300.0	050.0000	-0087.9	026.5	182.0	000.1100	0088.3	162.3	07.30
301.0	050.0000	-0109.1	026.5	181.9	000.1100	0088.2	161.9	07.37
302.0	050.0000	-0110.6	026.5	181.8	000.1100	0088.2	161.5	07.44
303.0	050.0000	-0103.1	026.5	181.7	000.1100	0088.1	161.1	07.51
304.0	050.0000	-0090.5	026.5	181.7	000.1100	0088.0	160.7	07.58
305.0	050.0000	-0083.5	026.5	181.6	000.1100	0088.0	160.3	07.65
306.0	050.0000	-0067.3	026.5	181.5	000.1100	0087.9	159.9	07.72
307.0	050.0000	-0049.6	026.5	181.4	000.1100	0087.7	159.5	07.78
308.0	050.0000	-0038.6	026.5	181.3	000.1100	0087.6	159.1	07.84
309.0	050.0000	-0040.9	026.5	181.2	000.1100	0087.5	158.8	07.91
310.0	050.0000	-0057.6	026.5	181.1	000.1100	0087.4	158.4	07.97
311.0	050.0000	-0081.7	026.5	181.0	000.1100	0087.2	158.0	08.02
312.0	050.0000	-0099.0	026.5	180.9	000.1100	0087.0	157.7	08.08
313.0	050.0000	-0113.3	026.5	180.7	000.1100	0086.8	157.4	08.13
314.0	050.0000	-0128.6	026.5	180.6	000.1100	0086.7	157.0	08.18
315.0	050.0000	-0137.0	026.5	180.5	000.1100	0086.6	156.7	08.24
316.0	050.0000	-0153.7	026.5	180.4	000.1100	0086.6	156.4	08.29
317.0	050.0000	-0159.2	026.5	180.3	000.1100	0086.5	156.0	08.34
318.0	050.0000	-0144.0	026.5	180.1	000.1100	0086.6	155.7	08.40
319.0	050.0000	-0123.2	026.5	180.0	000.1100	0086.7	155.4	08.46
320.0	050.0000	-0105.8	026.5	179.9	000.1100	0087.0	155.1	08.52
321.0	050.0000	-0091.5	026.5	179.8	000.1100	0087.4	154.8	08.58
322.0	050.0000	-0077.8	026.5	179.6	000.1100	0087.8	154.5	08.64
323.0	050.0000	-0069.3	026.5	179.5	000.1100	0088.4	154.3	08.71
324.0	050.0000	-0057.6	026.5	179.3	000.1100	0089.1	154.0	08.78
325.0	050.0000	-0044.2	026.5	179.2	000.1100	0090.0	153.7	08.86
326.0	050.0000	-0029.9	026.5	179.1	000.1100	0090.8	153.5	08.92
327.0	050.0000	-0010.4	026.5	178.9	000.1100	0091.3	153.2	08.98

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
328.0	050.0000	0011.9	026.5	178.8	000.1100	0091.7	153.0	09.04
329.0	050.0000	0034.5	028.0	178.9	000.1100	0091.4	151.4	09.29
330.0	050.0000	0047.5	032.7	179.6	000.1100	0087.8	147.1	09.90
331.0	050.0000	0061.0	036.7	180.2	000.1100	0086.5	143.3	10.56
332.0	050.0000	0068.0	038.3	180.3	000.1100	0086.5	141.6	10.88
333.0	050.0000	0070.6	038.9	180.1	000.1100	0086.6	140.7	11.04
334.0	050.0000	0067.6	038.3	179.8	000.1100	0087.3	141.0	11.00
335.0	050.0000	0062.1	037.0	179.3	000.1100	0089.3	141.9	10.90
336.0	050.0000	0055.2	035.2	178.8	000.1100	0091.7	143.3	10.72
337.0	050.0000	0057.7	035.9	178.7	000.1100	0091.9	142.4	10.89
338.0	050.0000	0069.5	038.7	178.8	000.1100	0091.6	139.6	11.42
339.0	050.0000	0083.9	041.7	179.0	000.1100	0091.0	136.5	12.00
340.0	050.0000	0101.0	044.9	179.2	000.1100	0090.2	133.2	12.61
341.0	050.0000	0118.9	047.8	179.2	000.1100	0089.8	130.2	13.17
342.0	050.0000	0131.5	049.6	179.1	000.1100	0090.5	128.2	13.56
343.0	050.0000	0136.2	050.3	178.8	000.1100	0091.6	127.4	13.76
344.0	050.0000	0142.9	051.2	178.5	000.1100	0092.2	126.2	13.98
345.0	050.0000	0147.1	051.8	178.2	000.1100	0092.9	125.4	14.14
346.0	050.0000	0161.2	053.6	178.0	000.1100	0093.3	123.5	14.50
347.0	050.0000	0192.0	056.7	177.8	000.1100	0093.5	120.3	15.05
348.0	050.0000	0211.3	058.3	177.5	000.1100	0093.7	118.5	15.38
349.0	050.0000	0234.4	060.3	177.1	000.1100	0093.6	116.4	15.74
350.0	050.0000	0256.1	062.0	176.7	000.1100	0093.7	114.6	16.06
351.0	050.0000	0270.9	063.1	176.2	000.1100	0093.2	113.3	16.27
352.0	050.0000	0268.8	063.0	175.7	000.1100	0092.0	113.4	16.22
353.0	050.0000	0277.1	063.6	175.1	000.1100	0090.4	112.7	16.29
354.0	050.0000	0297.7	065.2	174.6	000.1100	0089.2	111.1	16.55
355.0	050.0000	0326.9	067.4	174.0	000.1100	0087.9	108.9	16.92
356.0	050.0000	0341.5	068.4	173.3	000.1100	0087.3	107.9	17.09
357.0	050.0000	0358.0	069.6	172.6	000.1100	0088.3	106.8	17.34
358.0	050.0000	0377.0	070.9	171.9	000.1100	0092.2	105.6	17.72
359.0	050.0000	0392.2	072.0	171.2	000.1100	0095.2	104.7	18.01
000.0	050.0000	0404.8	072.9	170.4	000.1100	0097.8	104.0	18.25
001.0	050.0000	0416.1	073.7	169.6	000.1100	0100.3	103.4	18.46
002.0	050.0000	0427.8	074.5	168.8	000.1100	0102.7	102.9	18.66
003.0	050.0000	0436.8	075.2	168.0	000.1100	0104.4	102.6	18.80
004.0	050.0000	0444.4	075.8	167.2	000.1100	0105.8	102.4	18.89
005.0	050.0000	0457.0	076.7	166.3	000.1100	0108.3	101.9	19.10
006.0	050.0000	0465.6	077.4	165.5	000.1100	0112.0	101.7	19.28
007.0	050.0000	0472.1	077.9	164.7	000.1100	0116.8	101.7	19.44
008.0	050.0000	0480.1	078.4	163.9	000.1100	0121.4	101.8	19.61
009.0	050.0000	0490.0	079.1	163.0	000.1100	0124.4	101.7	19.72
010.0	050.0000	0498.5	079.6	162.2	000.1100	0125.6	101.9	19.73
011.0	050.0000	0506.3	080.1	161.4	000.1100	0125.6	102.1	19.67
012.0	050.0000	0511.9	080.4	160.6	000.1100	0125.0	102.6	19.55
013.0	050.0000	0515.9	080.6	159.8	000.1100	0124.3	103.1	19.39
014.0	050.0000	0518.7	080.8	159.1	000.1100	0124.0	103.8	19.23
015.0	050.0000	0522.3	081.0	158.4	000.1100	0123.8	104.4	19.08
016.0	050.0000	0527.2	081.3	157.7	000.1100	0122.6	105.1	18.89
017.0	050.0000	0531.7	081.6	157.0	000.1100	0118.6	105.8	18.60
018.0	050.0000	0534.8	081.7	156.4	000.1100	0110.9	106.6	18.17

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
019.0	050.0000	0536.5	081.8	155.8	000.1100	0103.9	107.4	17.74
020.0	050.0000	0536.3	081.8	155.2	000.1100	0099.5	108.4	17.40
021.0	050.0000	0535.2	081.7	154.7	000.1100	0095.4	109.5	17.05
022.0	050.0000	0533.5	081.7	154.3	000.1100	0093.7	110.6	16.79
023.0	050.0000	0532.1	081.6	153.8	000.1100	0094.0	111.7	16.59
024.0	050.0000	0531.5	081.5	153.3	000.1100	0096.9	112.8	16.48
025.0	050.0000	0532.1	081.6	152.9	000.1100	0099.0	113.9	16.35
026.0	050.0000	0533.5	081.7	152.4	000.1100	0099.0	115.0	16.15
027.0	050.0000	0534.4	081.7	152.0	000.1100	0099.1	116.1	15.96
028.0	050.0000	0537.5	081.9	151.5	000.1100	0100.0	117.2	15.80
029.0	050.0000	0541.8	082.1	151.0	000.1100	0101.5	118.3	15.66
030.0	050.0000	0544.7	082.3	150.6	000.1100	0103.1	119.4	15.51
031.0	050.0000	0546.7	082.4	150.2	000.1100	0106.2	120.6	15.40
032.0	050.0000	0548.7	082.5	149.8	000.1100	0110.6	121.8	15.33
033.0	050.0000	0552.2	082.7	149.4	000.1100	0115.9	123.0	15.28
034.0	050.0000	0557.3	082.9	149.0	000.1100	0120.9	124.2	15.21
035.0	050.0000	0563.8	083.2	148.6	000.1100	0125.1	125.4	15.11
036.0	050.0000	0570.2	083.6	148.2	000.1100	0128.8	126.6	14.99
037.0	050.0000	0575.6	083.8	147.9	000.1100	0132.1	127.9	14.85
038.0	050.0000	0581.3	084.1	147.5	000.1100	0135.1	129.2	14.69
039.0	050.0000	0586.4	084.3	147.2	000.1100	0138.1	130.5	14.52
040.0	050.0000	0591.5	084.5	146.9	000.1100	0141.5	131.8	14.35
041.0	050.0000	0596.1	084.7	146.7	000.1100	0144.9	133.2	14.17
042.0	050.0000	0601.2	084.9	146.4	000.1100	0148.2	134.6	13.99
043.0	050.0000	0605.9	085.0	146.2	000.1100	0151.1	136.0	13.79
044.0	050.0000	0610.5	085.2	146.0	000.1100	0153.5	137.4	13.58
045.0	050.0000	0615.1	085.4	145.8	000.1100	0155.6	138.8	13.36
046.0	050.0000	0618.5	085.5	145.6	000.1100	0157.2	140.3	13.12
047.0	050.0000	0620.2	085.6	145.5	000.1100	0158.6	141.7	12.88
048.0	050.0000	0620.2	085.6	145.4	000.1100	0159.6	143.2	12.62
049.0	050.0000	0619.3	085.5	145.3	000.1100	0160.3	144.7	12.37
050.0	050.0000	0617.9	085.5	145.3	000.1100	0160.8	146.2	12.11
051.0	050.0000	0616.4	085.4	145.2	000.1100	0161.1	147.7	11.86
052.0	050.0000	0615.0	085.4	145.2	000.1100	0161.4	149.2	11.62
053.0	050.0000	0613.6	085.3	145.2	000.1100	0161.5	150.7	11.38
054.0	050.0000	0612.1	085.3	145.2	000.1100	0161.5	152.1	11.15