

Doug Vernier Telecommunications Consultants

KRUX - Increase to 3 kW DA Bd Of Regents, New Mexico St. Univ. CH# 218A - 91.5 MHz, Pwr= 3 kW DA, HAAT= -58.3 M, COR= 1215 M Average Protected F(50-50)= 13.22 km Standard Directional										
REFERENCE		DISPLAY DATES								
32 17 03.0 N.		DATA 12-02-14								
106 45 00.0 W.		SEARCH 12-02-14								
CH CITY	CALL	TYPE ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
218A KRUX Las Cruces		APP DCX NM	0.0 0.0	0.00 BPED20141126APH	32 17 03.0 106 45 00.0	3.500 -59	56.4 1215	13.7 Bd Of Regents, New Mexico	-69.6*	-67.0*
218A KRUX Las Cruces		LIC_CN NM	0.0 0.0	0.00 BLED19890928KA	32 17 03.0 106 45 00.0	1.000 -59	35.6 1215	10.2 Bd Of Regents, New Mexico	-48.9*	-63.4*
219C2 KLAG Alamogordo		LIC_CX NM	52.9 233.4	101.15 BMLED20131107AGU	32 49 47.0 105 53 10.0	1.400 512	90.3 2401	60.6 Educational Media Foundati	0.2	25.6
218A 1429619 Horizon City		APP DCX TX	127.4 307.7	81.33 BNPED20071022BGV	31 50 18.0 106 03 56.0	1.180 43	69.0 1414	20.4 Open Arms Community Of El	0.3	5.7
218A 1398948 Horizon City		APP DCX TX	131.6 311.9	77.10 BNPED20071019AHM	31 49 21.0 106 08 22.0	2.300 17	56.0 1303	15.7 Christian Ministries Of El	8.3	7.8
220C3 KIHM-FM Hatch		CP DCX NM	326.8 146.6	54.41 BMPED20120203ABV	32 41 35.7 107 04 06.9	1.100 331	2.2 1673	37.8 Ihr Educational Broadcasti	39.0	14.9
271C KPRR« El Paso		LIC_EN TX	154.9 335.1	60.17 BLH19860813KB	31 47 34.0 106 28 47.0	100.000 363	0.0 1583	0.0 Cc Licenses, Lic	28.5R	31.7M
216A KVER El Paso		LIC_CN TX	154.9 335.1	60.27 BLED19970915KC	31 47 34.0 106 28 47.0	0.510 340	1.6 1560	19.3 World Radio Network, Inc.	43.6	33.6
216C3 KLCF Truth Or Consequenc		LIC_CX NM	329.8 149.6	88.26 BLED20131030ADG	32 58 10.0 107 13 33.0	0.190 780	1.0 2294	30.2 Educational Media Foundati	74.1	55.7

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 Terrain database is USGS 03 SEC, R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM  
 In & Out distances between contours are shown at closest points. Reference zone= - Zone 2, Co to 3rd adjacent.  
 All separation margins (if shown) include rounding. Call signs with strikeout need not be protected.  
 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 restricted contour.  
 « = Station meets FCC minimum distance spacing for its class.  
 Reference station has protected zone issue: Mexico

## HOW TO READ THE FM COMPUTER PRINT-OUT

### Full Service Stations

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

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

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

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

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

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

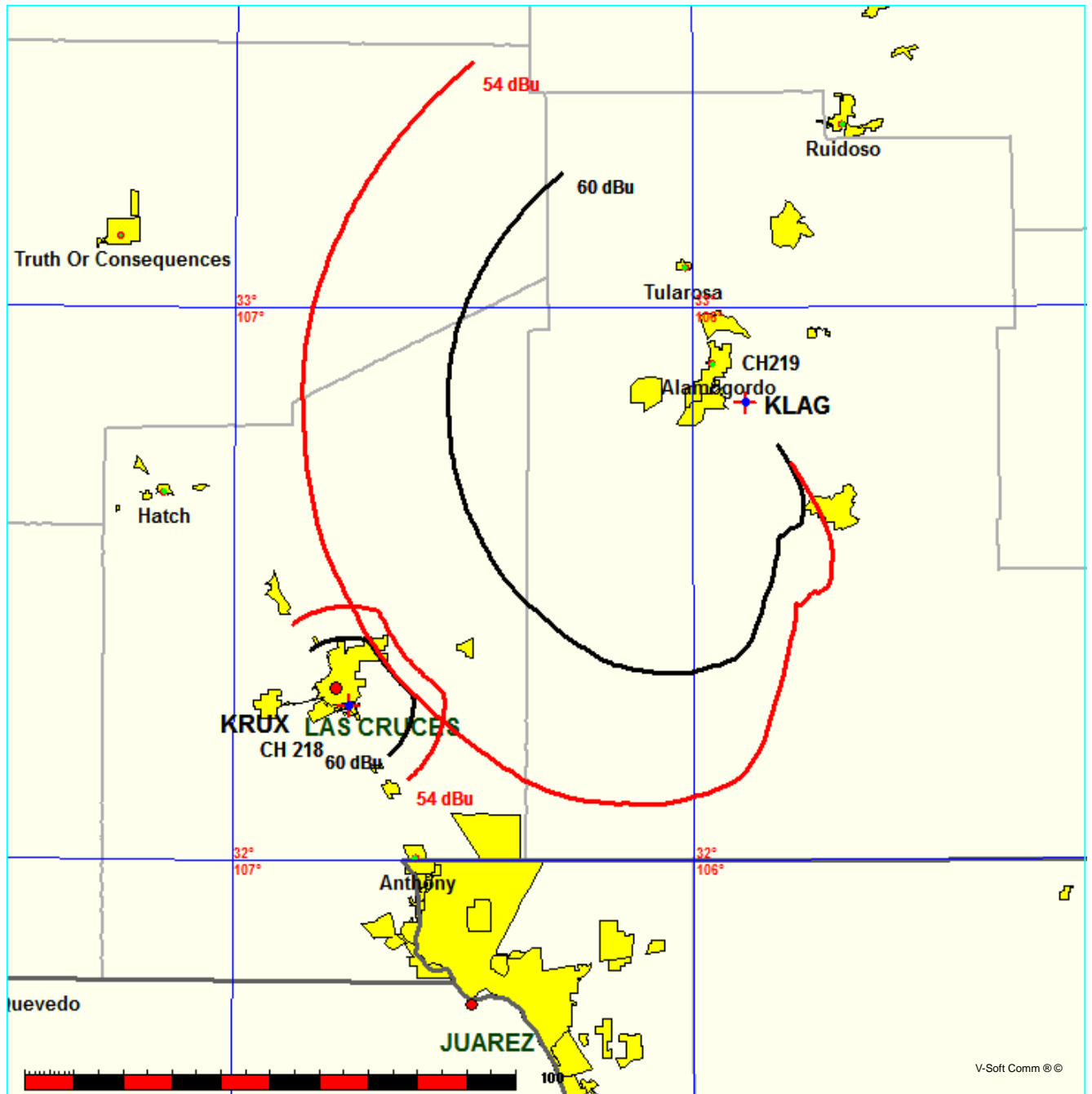
The first three letters of the "TYPE" column identify the current FCC status of the stations. The fourth letter will be a "D" if the facility is directional. "Z" indicates a 73.215 directional. An "N" indicates it is a 73.215 station that operates with an omni-directional antenna. The fifth letter will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

KRUXNew vs. KLAG  
Bd Of Regents, New Mexico St. Univ.

FMCommander Single Allocation Study - 12-02-2014 - USGS 03 SEC  
KRUX's Overlaps (In= 0.22 km, Out= 25.55 km)

KRUX CH 218 A DA  
Lat= 32 17 03.0, Lng= 106 45 00.0  
3.0 kW -58.3 M HAAT, 1215 M COR  
Prot.= 60 dBu, Intef.= 54 dBu

KLAG CH 219 C2 BMLED20131107AGU  
Lat= 32 49 47.0, Lng= 105 53 10.0  
1.4 kW 512 M HAAT, 2401 M COR  
Prot.= 60 dBu, Intef.= 54 dBu

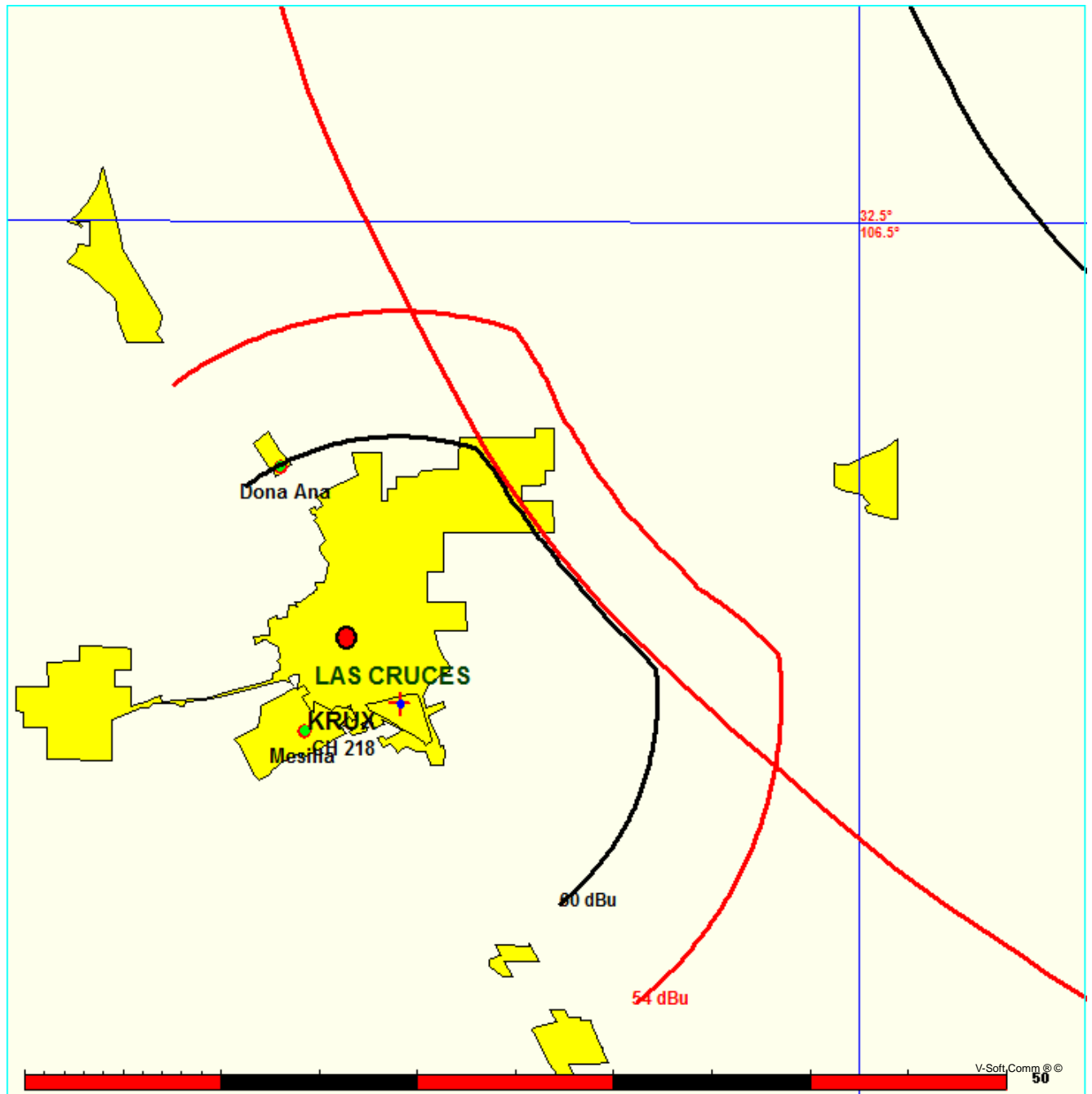


KRUXNew vs. KLAG (Detail)  
Bd Of Regents, New Mexico St. Univ.

FMCommander Single Allocation Study - 12-02-2014 - USGS 03 SEC  
KRUX's Overlaps (In= 0.22 km, Out= 25.55 km)

KRUX CH 218 A DA  
Lat= 32 17 03.0, Lng= 106 45 00.0  
3.0 kW -58.3 M HAAT, 1215 M COR  
Prot.= 60 dBu, Intef.= 54 dBu

KLAG CH 219 C2 BMLED20131107AGU  
Lat= 32 49 47.0, Lng= 105 53 10.0  
1.4 kW 512 M HAAT, 2401 M COR  
Prot.= 60 dBu, Intef.= 54 dBu



12-02-2014

Terrain Data: USGS 03 SEC

FMOver Analysis

KRUX

KLAG BMLED20131107AGU

Channel = 218A

Max ERP = 3 kW

RCAMSL = 1215 M

N. Lat. 32 17 03.0

W. Lng. 106 45 00.0

Protected

60 dBu

Channel = 219C2

Max ERP = 1.4 kW

RCAMSL = 2401 M

N. Lat. 32 49 47.0

W. Lng. 105 53 10.0

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
353.0	003.0000	-0071.0	013.2	240.3	001.4000	1093.3	095.2	52.56	
354.0	003.0000	-0076.1	013.2	240.2	001.4000	1093.4	095.0	52.62	
355.0	003.0000	-0081.7	013.2	240.2	001.4000	1093.5	094.8	52.68	
356.0	003.0000	-0083.1	013.2	240.1	001.4000	1093.5	094.6	52.75	
357.0	003.0000	-0081.1	013.2	240.1	001.4000	1093.6	094.4	52.81	
358.0	003.0000	-0080.9	013.2	240.0	001.4000	1093.7	094.2	52.87	
359.0	003.0000	-0081.9	013.2	239.9	001.4000	1093.8	094.0	52.93	
000.0	003.0000	-0083.2	013.2	239.8	001.4000	1093.9	093.8	52.99	
001.0	003.0000	-0084.3	013.2	239.8	001.4000	1094.0	093.6	53.04	
002.0	003.0000	-0084.4	013.2	239.7	001.4000	1094.1	093.4	53.10	
003.0	003.0000	-0084.0	013.2	239.6	001.4000	1094.2	093.2	53.16	
004.0	003.0000	-0083.6	013.2	239.5	001.4000	1094.3	093.0	53.22	
005.0	003.0000	-0083.7	013.2	239.5	001.4000	1094.4	092.8	53.27	
006.0	003.0000	-0083.9	013.2	239.4	001.4000	1094.5	092.6	53.33	
007.0	003.0000	-0084.5	013.2	239.3	001.4000	1094.7	092.4	53.38	
008.0	003.0000	-0085.1	013.2	239.2	001.4000	1094.8	092.3	53.43	
009.0	003.0000	-0086.0	013.2	239.1	001.4000	1095.0	092.1	53.49	
010.0	003.0000	-0087.1	013.2	239.0	001.4000	1095.2	091.9	53.54	
011.0	003.0000	-0088.4	013.2	238.9	001.4000	1095.3	091.7	53.59	
012.0	003.0000	-0090.4	013.2	238.8	001.4000	1095.5	091.6	53.64	
013.0	003.0000	-0092.2	013.2	238.7	001.4000	1095.6	091.4	53.69	
014.0	003.0000	-0094.1	013.2	238.6	001.4000	1095.8	091.2	53.73	
015.0	003.0000	-0095.6	013.2	238.5	001.4000	1095.9	091.1	53.78	
016.0	003.0000	-0097.0	013.2	238.4	001.4000	1096.1	090.9	53.83	
017.0	003.0000	-0098.7	013.2	238.3	001.4000	1096.3	090.8	53.87	
018.0	002.9462	-0100.4	013.2	238.2	001.4000	1096.4	090.7	53.90	
019.0	002.8169	-0102.0	013.0	238.0	001.4000	1096.6	090.6	53.91	
020.0	002.6904	-0103.7	012.9	237.8	001.4000	1096.6	090.6	53.92	
021.0	002.5669	-0105.5	012.7	237.7	001.4000	1096.7	090.6	53.93	
022.0	002.4516	-0107.5	012.6	237.5	001.4000	1096.7	090.6	53.93	
023.0	002.3444	-0109.3	012.5	237.3	001.4000	1096.6	090.6	53.94	
024.0	002.2343	-0111.2	012.3	237.2	001.4000	1096.4	090.6	53.94	
025.0	002.1370	-0113.0	012.2	237.0	001.4000	1096.2	090.6	53.94	
026.0	002.0419	-0114.7	012.1	236.8	001.4000	1096.1	090.6	53.93	
027.0	001.9489	-0116.3	011.9	236.7	001.4000	1095.9	090.6	53.93	
028.0	001.8581	-0117.4	011.8	236.5	001.4000	1095.8	090.6	53.92	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
029.0	001.7787	-0118.4	011.7	236.4	001.4000	1095.6	090.6	53.92
030.0	001.6965	-0119.9	011.5	236.2	001.4000	1095.4	090.6	53.91
031.0	001.6561	-0121.8	011.5	236.1	001.4000	1095.2	090.6	53.91
032.0	001.6207	-0123.7	011.4	236.0	001.4000	1095.1	090.6	53.92
033.0	001.5812	-0125.8	011.4	235.8	001.4000	1094.9	090.6	53.92
034.0	001.5466	-0128.1	011.3	235.7	001.4000	1094.8	090.5	53.93
035.0	001.5080	-0130.4	011.2	235.6	001.4000	1094.6	090.5	53.93
036.0	001.4742	-0132.8	011.2	235.4	001.4000	1094.4	090.5	53.93
037.0	001.4366	-0135.0	011.1	235.3	001.4000	1094.2	090.5	53.93
038.0	001.4036	-0137.3	011.0	235.2	001.4000	1094.0	090.5	53.92
039.0	001.3669	-0139.8	011.0	235.1	001.4000	1093.9	090.6	53.92
040.0	001.3347	-0142.1	010.9	234.9	001.4000	1093.7	090.6	53.91
041.0	001.3227	-0144.2	010.9	234.8	001.4000	1093.5	090.5	53.92
042.0	001.3147	-0146.3	010.9	234.7	001.4000	1093.3	090.5	53.92
043.0	001.3028	-0148.5	010.8	234.6	001.4000	1093.0	090.5	53.93
044.0	001.2910	-0150.8	010.8	234.5	001.4000	1092.8	090.5	53.93
045.0	001.2792	-0153.0	010.8	234.3	001.4000	1092.5	090.5	53.93
046.0	001.2714	-0155.2	010.8	234.2	001.4000	1092.3	090.5	53.93
047.0	001.2597	-0157.4	010.7	234.1	001.4000	1092.0	090.5	53.93
048.0	001.2481	-0159.7	010.7	234.0	001.4000	1091.8	090.5	53.92
049.0	001.2403	-0162.3	010.7	233.9	001.4000	1091.4	090.5	53.92
050.0	001.2288	-0164.8	010.7	233.7	001.4000	1091.1	090.5	53.91
051.0	001.2403	-0167.4	010.7	233.6	001.4000	1090.8	090.5	53.92
052.0	001.2481	-0170.1	010.7	233.5	001.4000	1090.6	090.4	53.92
053.0	001.2597	-0173.2	010.7	233.4	001.4000	1090.2	090.4	53.93
054.0	001.2714	-0176.2	010.8	233.3	001.4000	1089.9	090.4	53.93
055.0	001.2792	-0179.5	010.8	233.1	001.4000	1089.5	090.4	53.93
056.0	001.2910	-0182.7	010.8	233.0	001.4000	1089.1	090.4	53.93
057.0	001.3028	-0186.1	010.8	232.9	001.4000	1088.8	090.3	53.93
058.0	001.3147	-0189.3	010.9	232.8	001.4000	1088.4	090.3	53.93
059.0	001.3227	-0193.0	010.9	232.7	001.4000	1088.0	090.3	53.93
060.0	001.3347	-0196.5	010.9	232.5	001.4000	1087.5	090.3	53.92
061.0	001.3628	-0199.6	011.0	232.4	001.4000	1087.0	090.3	53.93
062.0	001.3913	-0202.6	011.0	232.3	001.4000	1086.6	090.3	53.93
063.0	001.4242	-0204.4	011.1	232.2	001.4000	1086.1	090.3	53.93
064.0	001.4532	-0205.8	011.1	232.0	001.4000	1085.6	090.3	53.93
065.0	001.4826	-0207.4	011.2	231.9	001.4000	1085.1	090.3	53.93
066.0	001.5123	-0210.1	011.2	231.8	001.4000	1084.5	090.2	53.93
067.0	001.5423	-0212.8	011.3	231.6	001.4000	1083.9	090.3	53.92
068.0	001.5769	-0215.0	011.3	231.5	001.4000	1083.3	090.2	53.92
069.0	001.6075	-0218.3	011.4	231.4	001.4000	1082.7	090.3	53.91
070.0	001.6384	-0222.7	011.4	231.3	001.4000	1082.0	090.3	53.90
071.0	001.7146	-0226.8	011.6	231.1	001.4000	1081.4	090.2	53.91
072.0	001.7972	-0233.5	011.7	231.0	001.4000	1080.8	090.2	53.92
073.0	001.8818	-0235.5	011.8	230.8	001.4000	1080.1	090.1	53.92
074.0	001.9683	-0234.3	012.0	230.7	001.4000	1079.3	090.1	53.93
075.0	002.0617	-0236.4	012.1	230.5	001.4000	1078.5	090.1	53.93
076.0	002.1573	-0243.6	012.2	230.3	001.4000	1077.7	090.0	53.93
077.0	002.2603	-0256.6	012.4	230.2	001.4000	1076.9	090.0	53.93
078.0	002.3656	-0262.4	012.5	230.0	001.4000	1076.1	090.0	53.93
079.0	002.4788	-0254.7	012.6	229.9	001.4000	1075.2	090.0	53.92

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
080.0	002.5947	-0250.5	012.8	229.7	001.4000	1074.3	090.0	53.92
081.0	002.7189	-0249.4	012.9	229.5	001.4000	1073.4	090.0	53.91
082.0	002.8460	-0246.3	013.1	229.3	001.4000	1072.6	090.0	53.90
083.0	002.9820	-0248.9	013.2	229.2	001.4000	1071.7	090.0	53.90
084.0	003.0000	-0254.4	013.2	229.0	001.4000	1071.0	090.1	53.86
085.0	003.0000	-0253.2	013.2	228.9	001.4000	1070.4	090.2	53.81
086.0	003.0000	-0244.1	013.2	228.8	001.4000	1069.9	090.4	53.77
087.0	003.0000	-0238.0	013.2	228.7	001.4000	1069.4	090.5	53.72
088.0	003.0000	-0227.3	013.2	228.6	001.4000	1068.8	090.7	53.68
089.0	003.0000	-0217.0	013.2	228.5	001.4000	1068.3	090.8	53.63
090.0	003.0000	-0212.2	013.2	228.4	001.4000	1067.8	091.0	53.58
091.0	003.0000	-0208.1	013.2	228.3	001.4000	1067.3	091.1	53.53
092.0	003.0000	-0206.0	013.2	228.2	001.4000	1066.8	091.3	53.48
093.0	003.0000	-0208.8	013.2	228.0	001.4000	1066.3	091.4	53.43
094.0	003.0000	-0207.0	013.2	227.9	001.4000	1065.8	091.6	53.38
095.0	003.0000	-0203.9	013.2	227.9	001.4000	1065.4	091.8	53.32
096.0	003.0000	-0194.0	013.2	227.8	001.4000	1065.0	091.9	53.27
097.0	003.0000	-0184.4	013.2	227.7	001.4000	1064.6	092.1	53.21
098.0	003.0000	-0180.6	013.2	227.6	001.4000	1064.2	092.3	53.16
099.0	003.0000	-0187.3	013.2	227.5	001.4000	1063.7	092.5	53.10
100.0	003.0000	-0186.9	013.2	227.4	001.4000	1063.3	092.7	53.05
101.0	003.0000	-0173.3	013.2	227.3	001.4000	1062.8	092.8	52.99
102.0	003.0000	-0163.9	013.2	227.2	001.4000	1062.4	093.0	52.93
103.0	003.0000	-0159.6	013.2	227.1	001.4000	1062.0	093.2	52.87
104.0	003.0000	-0153.0	013.2	227.1	001.4000	1061.6	093.4	52.81
105.0	003.0000	-0146.7	013.2	227.0	001.4000	1061.3	093.6	52.75
106.0	003.0000	-0143.4	013.2	226.9	001.4000	1060.9	093.8	52.69
107.0	003.0000	-0141.3	013.2	226.9	001.4000	1060.6	094.0	52.63
108.0	003.0000	-0142.0	013.2	226.8	001.4000	1060.2	094.2	52.57
109.0	003.0000	-0143.8	013.2	226.7	001.4000	1059.9	094.4	52.50
110.0	003.0000	-0138.8	013.2	226.7	001.4000	1059.6	094.6	52.44
111.0	003.0000	-0126.7	013.2	226.6	001.4000	1059.3	094.8	52.37
112.0	003.0000	-0119.0	013.2	226.5	001.4000	1059.0	095.0	52.31

12-02-2014

Terrain Data: USGS 03 SEC

FMOver Analysis

KLAG BMLED20131107AGU

KRUX

Channel = 219C2

Max ERP = 1.4 kW

RCAMSL = 2401 M

N. Lat. 32 49 47.0

W. Lng. 105 53 10.0

Protected

60 dBu

Channel = 218A

Max ERP = 3 kW

RCAMSL = 1215 M

N. Lat. 32 17 03.0

W. Lng. 106 45 00.0

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
173.0	001.4000	0375.8	037.7	074.6	002.0218	-0235.2	088.8	31.32	
174.0	001.4000	0406.0	038.9	075.3	002.0926	-0238.5	088.0	31.64	
175.0	001.4000	0444.1	040.6	076.3	002.1930	-0247.9	087.0	32.04	
176.0	001.4000	0483.5	042.4	077.5	002.3099	-0262.6	086.1	32.46	
177.0	001.4000	0526.0	044.5	078.8	002.4541	-0256.4	085.0	32.94	
178.0	001.4000	0561.3	046.2	079.9	002.5791	-0250.6	084.0	33.36	
179.0	001.4000	0600.8	047.9	080.9	002.7050	-0249.8	083.0	33.78	
180.0	001.4000	0640.7	049.3	081.8	002.8250	-0246.4	081.9	34.18	
181.0	001.4000	0669.8	050.4	082.5	002.9103	-0247.2	080.9	34.51	
182.0	001.4000	0692.9	051.2	082.9	002.9736	-0248.6	079.9	34.80	
183.0	001.4000	0709.1	051.7	083.2	002.9859	-0249.8	079.0	35.01	
184.0	001.4000	0723.8	052.2	083.4	002.9900	-0251.0	078.0	35.21	
185.0	001.4000	0740.2	052.7	083.7	002.9945	-0252.6	077.0	35.40	
186.0	001.4000	0755.6	053.2	083.9	002.9983	-0253.9	076.0	35.59	
187.0	001.4000	0767.8	053.5	084.0	003.0000	-0254.5	075.0	35.78	
188.0	001.4000	0778.3	053.8	084.1	003.0000	-0254.8	074.0	35.96	
189.0	001.4000	0793.9	054.3	084.3	003.0000	-0255.5	073.0	36.14	
190.0	001.4000	0811.5	054.8	084.4	003.0000	-0255.8	072.0	36.33	
191.0	001.4000	0826.5	055.1	084.5	003.0000	-0255.8	070.9	36.52	
192.0	001.4000	0841.8	055.5	084.6	003.0000	-0255.7	069.9	36.70	
193.0	001.4000	0851.9	055.8	084.6	003.0000	-0255.8	068.9	36.88	
194.0	001.4000	0861.7	056.0	084.5	003.0000	-0255.8	067.9	37.06	
195.0	001.4000	0871.8	056.3	084.4	003.0000	-0255.8	066.9	37.25	
196.0	001.4000	0882.1	056.5	084.3	003.0000	-0255.6	065.9	37.43	
197.0	001.4000	0894.8	056.8	084.2	003.0000	-0255.4	064.9	37.62	
198.0	001.4000	0911.8	057.2	084.2	003.0000	-0255.2	063.8	37.82	
199.0	001.4000	0926.7	057.5	084.1	003.0000	-0254.6	062.8	38.02	
200.0	001.4000	0939.3	057.7	083.9	002.9977	-0253.7	061.8	38.22	
201.0	001.4000	0952.6	058.0	083.7	002.9942	-0252.5	060.7	38.42	
202.0	001.4000	0964.1	058.2	083.4	002.9897	-0250.9	059.7	38.62	
203.0	001.4000	0974.7	058.4	083.1	002.9844	-0249.5	058.7	38.81	
204.0	001.4000	0984.8	058.6	082.8	002.9540	-0248.0	057.8	38.98	
205.0	001.4000	0995.1	058.8	082.4	002.9043	-0247.1	056.8	39.11	



Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
206.0	001.4000	1005.6	059.0	082.0	002.8510	-0246.3	055.8	39.24
207.0	001.4000	1015.3	059.2	081.6	002.7942	-0247.1	054.8	39.35
208.0	001.4000	1022.7	059.3	081.1	002.7289	-0249.2	053.9	39.45
209.0	001.4000	1028.2	059.4	080.5	002.6560	-0251.0	053.0	39.52
210.0	001.4000	1032.9	059.5	079.9	002.5784	-0250.6	052.2	39.58
211.0	001.4000	1035.0	059.6	079.1	002.4957	-0253.6	051.4	39.62
212.0	001.4000	1034.6	059.6	078.4	002.4055	-0260.1	050.6	39.62
213.0	001.4000	1034.1	059.6	077.5	002.3149	-0262.9	049.9	39.62
214.0	001.4000	1033.7	059.5	076.7	002.2240	-0251.8	049.1	39.60
215.0	001.4000	1034.4	059.6	075.8	002.1338	-0241.7	048.4	39.57
216.0	001.4000	1036.1	059.6	074.8	002.0461	-0235.9	047.7	39.54
217.0	001.4000	1038.3	059.6	073.9	001.9578	-0234.2	047.1	39.51
218.0	001.4000	1040.3	059.7	072.9	001.8713	-0235.6	046.4	39.46
219.0	001.4000	1041.8	059.7	071.8	001.7829	-0232.3	045.8	39.40
220.0	001.4000	1043.0	059.7	070.7	001.6941	-0225.4	045.2	39.32
221.0	001.4000	1043.7	059.7	069.6	001.6258	-0221.3	044.7	39.28
222.0	001.4000	1044.8	059.8	068.4	001.5896	-0216.0	044.2	39.32
223.0	001.4000	1046.2	059.8	067.2	001.5494	-0213.3	043.7	39.34
224.0	001.4000	1048.5	059.8	066.0	001.5114	-0210.1	043.2	39.36
225.0	001.4000	1051.9	059.9	064.7	001.4739	-0206.9	042.8	39.37
226.0	001.4000	1056.4	060.0	063.4	001.4361	-0204.9	042.4	39.38
227.0	001.4000	1061.3	060.1	062.1	001.3940	-0202.8	042.0	39.36
228.0	001.4000	1066.1	060.1	060.7	001.3549	-0198.7	041.7	39.34
229.0	001.4000	1070.8	060.2	059.3	001.3266	-0194.3	041.4	39.34
230.0	001.4000	1076.0	060.3	057.9	001.3136	-0189.0	041.1	39.38
231.0	001.4000	1080.9	060.4	056.5	001.2965	-0184.2	040.9	39.39
232.0	001.4000	1085.5	060.5	055.0	001.2792	-0179.4	040.7	39.38
233.0	001.4000	1089.1	060.6	053.5	001.2657	-0174.7	040.6	39.37
234.0	001.4000	1091.8	060.6	052.0	001.2483	-0170.2	040.6	39.32
235.0	001.4000	1093.8	060.6	050.5	001.2348	-0166.1	040.6	39.27
236.0	001.4000	1095.1	060.7	049.0	001.2400	-0162.4	040.6	39.26
237.0	001.4000	1096.2	060.7	047.5	001.2533	-0158.6	040.8	39.27
238.0	001.4000	1096.5	060.7	046.1	001.2704	-0155.4	041.0	39.27
239.0	001.4000	1095.2	060.7	044.7	001.2833	-0152.2	041.2	39.24
240.0	001.4000	1093.7	060.6	043.2	001.2999	-0149.0	041.5	39.21
241.0	001.4000	1092.3	060.6	041.9	001.3158	-0146.0	041.9	39.16
242.0	001.4000	1091.4	060.6	040.5	001.3284	-0143.3	042.2	39.09
243.0	001.4000	1090.8	060.6	039.2	001.3603	-0140.2	042.6	39.07
244.0	001.4000	1090.9	060.6	037.9	001.4064	-0137.1	043.1	39.09
245.0	001.4000	1091.9	060.6	036.7	001.4495	-0134.3	043.5	39.10
246.0	001.4000	1093.9	060.6	035.4	001.4938	-0131.4	044.0	39.10
247.0	001.4000	1096.9	060.7	034.2	001.5383	-0128.6	044.5	39.09
248.0	001.4000	1100.3	060.8	033.0	001.5798	-0125.9	045.1	39.07
249.0	001.4000	1103.2	060.8	031.9	001.6238	-0123.6	045.6	39.04
250.0	001.4000	1105.2	060.8	030.8	001.6627	-0121.5	046.2	38.99
251.0	001.4000	1106.7	060.9	029.8	001.7119	-0119.6	046.9	38.96
252.0	001.4000	1106.9	060.9	028.8	001.7907	-0118.3	047.6	38.99
253.0	001.4000	1106.3	060.9	027.9	001.8637	-0117.3	048.4	39.00
254.0	001.4000	1105.8	060.9	027.1	001.9426	-0116.4	049.1	39.02
255.0	001.4000	1104.7	060.8	026.3	002.0181	-0115.1	049.9	39.01
256.0	001.4000	1103.5	060.8	025.5	002.0910	-0113.8	050.7	38.99

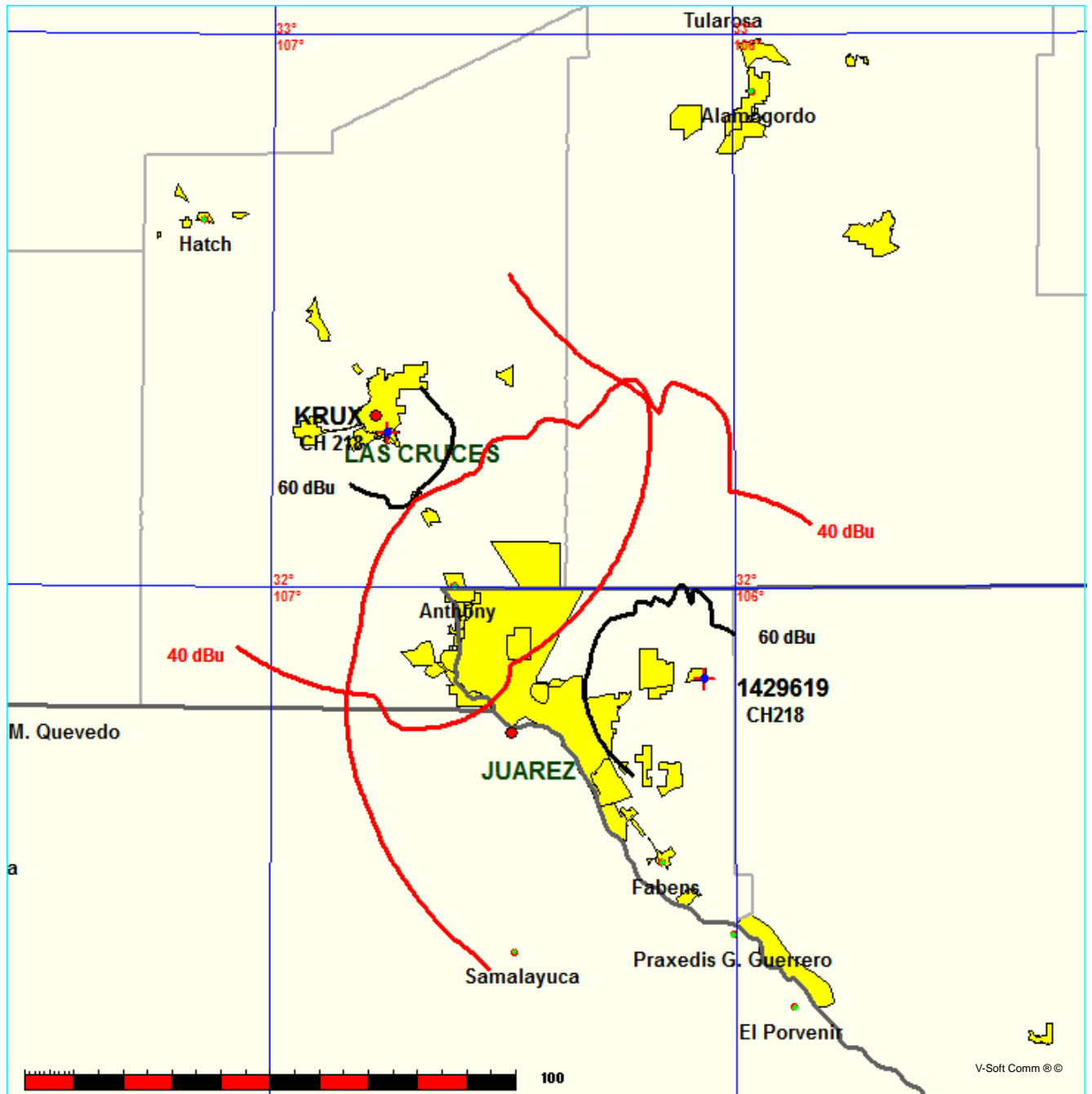
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
257.0	001.4000	1102.3	060.8	024.8	002.1611	-0112.6	051.6	38.95
258.0	001.4000	1102.1	060.8	024.0	002.2301	-0111.3	052.4	38.90
259.0	001.4000	1102.0	060.8	023.4	002.3029	-0110.0	053.3	38.85
260.0	001.4000	1101.9	060.8	022.7	002.3718	-0108.9	054.2	38.79
261.0	001.4000	1101.5	060.8	022.2	002.4352	-0107.8	055.1	38.71
262.0	001.4000	1100.1	060.8	021.6	002.4959	-0106.8	056.0	38.62
263.0	001.4000	1098.1	060.7	021.1	002.5533	-0105.8	056.9	38.52
264.0	001.4000	1095.4	060.7	020.7	002.6082	-0104.9	057.9	38.41
265.0	001.4000	1093.5	060.6	020.2	002.6615	-0104.1	058.8	38.30
266.0	001.4000	1092.1	060.6	019.8	002.7129	-0103.4	059.8	38.18
267.0	001.4000	1091.8	060.6	019.4	002.7631	-0102.7	060.8	38.06
268.0	001.4000	1092.2	060.6	019.0	002.8113	-0102.0	061.8	37.94
269.0	001.4000	1092.6	060.6	018.7	002.8567	-0101.4	062.7	37.82
270.0	001.4000	1093.7	060.6	018.4	002.9001	-0100.9	063.7	37.69
271.0	001.4000	1095.2	060.7	018.0	002.9412	-0100.5	064.7	37.56
272.0	001.4000	1096.8	060.7	017.7	002.9599	-0100.0	065.7	37.40
273.0	001.4000	1098.4	060.7	017.5	002.9744	-0099.5	066.7	37.24
274.0	001.4000	1099.4	060.7	017.2	002.9872	-0099.1	067.8	37.07
275.0	001.4000	1099.5	060.7	017.0	002.9982	-0098.7	068.8	36.90
276.0	001.4000	1099.1	060.7	016.9	003.0000	-0098.4	069.8	36.71
277.0	001.4000	1098.7	060.7	016.7	003.0000	-0098.2	070.9	36.53
278.0	001.4000	1098.3	060.7	016.6	003.0000	-0097.9	071.9	36.34
279.0	001.4000	1097.2	060.7	016.5	003.0000	-0097.7	073.0	36.15
280.0	001.4000	1095.6	060.7	016.4	003.0000	-0097.6	074.0	35.96
281.0	001.4000	1093.5	060.6	016.3	003.0000	-0097.5	075.1	35.77
282.0	001.4000	1091.1	060.6	016.3	003.0000	-0097.4	076.1	35.57
283.0	001.4000	1089.2	060.6	016.2	003.0000	-0097.3	077.2	35.37
284.0	001.4000	1087.2	060.5	016.2	003.0000	-0097.3	078.3	35.17
285.0	001.4000	1084.8	060.5	016.2	003.0000	-0097.3	079.3	34.97
286.0	001.4000	1082.2	060.4	016.2	003.0000	-0097.3	080.4	34.76
287.0	001.4000	1079.3	060.4	016.3	003.0000	-0097.4	081.4	34.55
288.0	001.4000	1076.2	060.3	016.3	003.0000	-0097.5	082.5	34.33
289.0	001.4000	1073.4	060.3	016.4	003.0000	-0097.6	083.5	34.12
290.0	001.4000	1070.7	060.2	016.4	003.0000	-0097.7	084.6	33.90
291.0	001.4000	1068.1	060.2	016.5	003.0000	-0097.8	085.6	33.69
292.0	001.4000	1065.4	060.1	016.6	003.0000	-0098.0	086.7	33.47

KRUXNew vs. Horizon City (Open Arms)  
Bd Of Regents, New Mexico St. Univ.

FMCommander Single Allocation Study - 12-02-2014 - USGS 03 SEC  
KRUX's Overlaps (In= 0.32 km, Out= 5.69 km)

KRUX CH 218 A DA  
Lat= 32 17 03.0, Lng= 106 45 00.0  
3.0 kW -58.3 M HAAT, 1215 M COR  
Prot.= 60 dBu, Intef.= 40 dBu

1429619 CH 218 A DA BNPED20071022BGV  
Lat= 31 50 18.0, Lng= 106 03 56.0  
1.18 kW 43 M HAAT, 1414 M COR  
Prot.= 60 dBu, Intef.= 40 dBu



12-02-2014

Terrain Data: USGS 03 SEC

FMOver Analysis

KRUX

1429619 BNPED20071022BGV

Channel = 218A

Max ERP = 3 kW

RCAMSL = 1215 M

N. Lat. 32 17 03.0

W. Lng. 106 45 00.0

Protected

60 dBu

Channel = 218A

Max ERP = 1.18 kW

RCAMSL = 1414 M

N. Lat. 31 50 18.0

W. Lng. 106 03 56.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
067.0	001.5423	-0212.8	011.3	315.1	001.1800	0107.2	076.4	36.18	
068.0	001.5769	-0215.0	011.3	315.1	001.1800	0107.2	076.2	36.24	
069.0	001.6075	-0218.3	011.4	315.1	001.1800	0107.1	076.0	36.29	
070.0	001.6384	-0222.7	011.4	315.0	001.1800	0107.0	075.8	36.35	
071.0	001.7146	-0226.8	011.6	315.1	001.1800	0107.1	075.5	36.42	
072.0	001.7972	-0233.5	011.7	315.1	001.1800	0107.1	075.3	36.49	
073.0	001.8818	-0235.5	011.8	315.1	001.1800	0107.2	075.1	36.57	
074.0	001.9683	-0234.3	012.0	315.1	001.1800	0107.2	074.8	36.64	
075.0	002.0617	-0236.4	012.1	315.1	001.1800	0107.2	074.6	36.71	
076.0	002.1573	-0243.6	012.2	315.1	001.1800	0107.3	074.3	36.78	
077.0	002.2603	-0256.6	012.4	315.1	001.1800	0107.3	074.1	36.86	
078.0	002.3656	-0262.4	012.5	315.1	001.1800	0107.2	073.8	36.93	
079.0	002.4788	-0254.7	012.6	315.1	001.1800	0107.2	073.6	37.01	
080.0	002.5947	-0250.5	012.8	315.1	001.1800	0107.2	073.3	37.08	
081.0	002.7189	-0249.4	012.9	315.1	001.1800	0107.2	073.0	37.16	
082.0	002.8460	-0246.3	013.1	315.1	001.1800	0107.1	072.8	37.23	
083.0	002.9820	-0248.9	013.2	315.0	001.1800	0107.0	072.5	37.31	
084.0	003.0000	-0254.4	013.2	314.9	001.1800	0106.7	072.3	37.35	
085.0	003.0000	-0253.2	013.2	314.8	001.1800	0106.3	072.1	37.38	
086.0	003.0000	-0244.1	013.2	314.7	001.1800	0106.0	071.9	37.42	
087.0	003.0000	-0238.0	013.2	314.6	001.1800	0105.7	071.8	37.45	
088.0	003.0000	-0227.3	013.2	314.5	001.1800	0105.3	071.6	37.48	
089.0	003.0000	-0217.0	013.2	314.3	001.1800	0104.8	071.4	37.50	
090.0	003.0000	-0212.2	013.2	314.2	001.1800	0104.4	071.3	37.52	
091.0	003.0000	-0208.1	013.2	314.1	001.1800	0103.9	071.1	37.55	
092.0	003.0000	-0206.0	013.2	313.9	001.1800	0103.5	071.0	37.57	
093.0	003.0000	-0208.8	013.2	313.8	001.1800	0103.2	070.8	37.59	
094.0	003.0000	-0207.0	013.2	313.6	001.1800	0102.9	070.7	37.62	
095.0	003.0000	-0203.9	013.2	313.5	001.1800	0102.5	070.5	37.64	
096.0	003.0000	-0194.0	013.2	313.3	001.1800	0102.0	070.4	37.66	
097.0	003.0000	-0184.4	013.2	313.2	001.1800	0101.6	070.2	37.68	
098.0	003.0000	-0180.6	013.2	313.0	001.1800	0101.2	070.1	37.69	
099.0	003.0000	-0187.3	013.2	312.9	001.1800	0100.8	070.0	37.71	
100.0	003.0000	-0186.9	013.2	312.7	001.1800	0100.5	069.9	37.73	
101.0	003.0000	-0173.3	013.2	312.6	001.1800	0100.3	069.7	37.75	
102.0	003.0000	-0163.9	013.2	312.4	001.1800	0099.8	069.6	37.76	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
103.0	003.0000	-0159.6	013.2	312.2	001.1800	0099.2	069.5	37.76
104.0	003.0000	-0153.0	013.2	312.1	001.1800	0098.7	069.4	37.77
105.0	003.0000	-0146.7	013.2	311.9	001.1800	0098.5	069.3	37.78
106.0	003.0000	-0143.4	013.2	311.7	001.1800	0098.4	069.2	37.81
107.0	003.0000	-0141.3	013.2	311.5	001.1800	0098.4	069.1	37.83
108.0	003.0000	-0142.0	013.2	311.4	001.1800	0098.9	069.0	37.89
109.0	003.0000	-0143.8	013.2	311.2	001.1800	0099.8	068.9	37.97
110.0	003.0000	-0138.8	013.2	311.0	001.1800	0100.8	068.8	38.05
111.0	003.0000	-0126.7	013.2	310.8	001.1800	0101.9	068.8	38.14
112.0	003.0000	-0119.0	013.2	310.7	001.1800	0103.0	068.7	38.22
113.0	003.0000	-0114.1	013.2	310.5	001.1800	0103.8	068.6	38.29
114.0	003.0000	-0108.0	013.2	310.3	001.1800	0104.4	068.5	38.34
115.0	003.0000	-0102.3	013.2	310.1	001.1800	0104.9	068.5	38.39
116.0	003.0000	-0096.5	013.2	309.9	001.1800	0105.5	068.4	38.44
117.0	003.0000	-0093.1	013.2	309.7	001.1800	0105.8	068.4	38.48
118.0	003.0000	-0089.1	013.2	309.5	001.1800	0106.1	068.3	38.50
119.0	003.0000	-0085.5	013.2	309.3	001.1800	0106.2	068.3	38.52
120.0	003.0000	-0082.6	013.2	309.2	001.1800	0106.4	068.2	38.54
121.0	003.0000	-0080.3	013.2	309.0	001.1800	0106.6	068.2	38.57
122.0	003.0000	-0078.3	013.2	308.8	001.1800	0106.9	068.2	38.59
123.0	003.0000	-0077.3	013.2	308.6	001.1800	0107.5	068.2	38.63
124.0	003.0000	-0078.1	013.2	308.4	001.1800	0108.0	068.1	38.66
125.0	003.0000	-0074.1	013.2	308.2	001.1800	0108.4	068.1	38.70
126.0	003.0000	-0069.4	013.2	308.0	001.1800	0109.1	068.1	38.74
127.0	003.0000	-0066.0	013.2	307.8	001.1800	0110.1	068.1	38.79
128.0	003.0000	-0062.7	013.2	307.6	001.1800	0110.9	068.1	38.84
129.0	003.0000	-0058.6	013.2	307.4	001.1800	0112.0	068.1	38.90
130.0	003.0000	-0054.7	013.2	307.2	001.1800	0113.0	068.1	38.95
131.0	003.0000	-0051.8	013.2	307.0	001.1800	0114.0	068.1	39.00
132.0	003.0000	-0048.7	013.2	306.8	001.1800	0114.9	068.2	39.04
133.0	003.0000	-0045.4	013.2	306.6	001.1800	0115.4	068.2	39.06
134.0	003.0000	-0041.7	013.2	306.4	001.1800	0116.0	068.2	39.08
135.0	003.0000	-0038.9	013.2	306.3	001.1800	0116.5	068.3	39.10
136.0	003.0000	-0036.1	013.2	306.1	001.1800	0117.2	068.3	39.12
137.0	003.0000	-0031.1	013.2	305.9	001.1800	0118.0	068.3	39.15
138.0	003.0000	-0026.7	013.2	305.7	001.1800	0118.9	068.4	39.19
139.0	003.0000	-0022.6	013.2	305.5	001.1800	0119.9	068.4	39.22
140.0	003.0000	-0018.8	013.2	305.3	001.1800	0120.9	068.5	39.26
141.0	003.0000	-0014.6	013.2	305.1	001.1800	0121.7	068.6	39.28
142.0	003.0000	-0010.5	013.2	304.9	001.1800	0122.3	068.6	39.29
143.0	003.0000	-0006.7	013.2	304.8	001.1800	0122.8	068.7	39.29
144.0	003.0000	-0003.6	013.2	304.6	001.1800	0123.3	068.8	39.30
145.0	003.0000	-0001.4	013.2	304.4	001.1800	0123.8	068.9	39.30
146.0	003.0000	0001.4	013.2	304.2	001.1800	0124.4	068.9	39.30
147.0	003.0000	0005.4	013.2	304.0	001.1800	0124.9	069.0	39.30
148.0	003.0000	0010.3	013.2	303.9	001.1800	0125.6	069.1	39.31
149.0	003.0000	0015.4	013.2	303.7	001.1800	0126.5	069.2	39.32
150.0	003.0000	0020.2	013.2	303.5	001.1800	0127.2	069.3	39.33
151.0	003.0000	0024.7	013.2	303.3	001.1800	0127.8	069.4	39.33
152.0	003.0000	0028.8	013.2	303.2	001.1800	0128.4	069.5	39.33
153.0	003.0000	0032.0	013.6	302.9	001.1800	0129.8	069.3	39.46

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
154.0	003.0000	0033.8	013.9	302.6	001.1800	0131.7	069.2	39.61
155.0	003.0000	0034.9	014.1	302.3	001.1800	0133.1	069.1	39.70
156.0	003.0000	0036.1	014.4	302.0	001.1800	0134.3	069.1	39.78
157.0	003.0000	0037.0	014.5	301.8	001.1800	0135.4	069.1	39.83
158.0	003.0000	0037.7	014.7	301.5	001.1800	0136.2	069.1	39.86
159.0	003.0000	0038.4	014.8	301.3	001.1800	0136.9	069.2	39.88
160.0	003.0000	0039.0	014.9	301.1	001.1800	0137.6	069.2	39.90
161.0	003.0000	0039.5	015.0	300.8	001.1800	0138.2	069.3	39.90
162.0	003.0000	0040.1	015.2	300.6	001.1800	0138.6	069.4	39.90
163.0	003.0000	0040.7	015.3	300.4	001.1800	0138.8	069.5	39.88
164.0	003.0000	0041.1	015.3	300.2	001.1800	0138.9	069.6	39.84
165.0	003.0000	0041.4	015.4	300.0	001.1800	0138.9	069.8	39.80
166.0	003.0000	0041.8	015.5	299.8	001.1800	0139.0	069.9	39.76
167.0	003.0000	0041.9	015.5	299.6	001.1800	0139.1	070.1	39.71
168.0	003.0000	0042.1	015.5	299.4	001.1800	0139.3	070.3	39.66
169.0	003.0000	0042.2	015.6	299.3	001.1800	0139.5	070.5	39.61
170.0	003.0000	0042.2	015.6	299.1	001.1800	0139.5	070.7	39.54
171.0	003.0000	0042.1	015.6	299.0	001.1800	0139.5	070.9	39.47
172.0	003.0000	0041.9	015.5	298.9	001.1800	0139.6	071.1	39.40
173.0	003.0000	0041.8	015.5	298.8	001.1800	0139.7	071.4	39.33
174.0	003.0000	0041.7	015.5	298.7	001.1800	0139.9	071.6	39.27
175.0	003.0000	0041.5	015.4	298.6	001.1800	0140.1	071.8	39.20
176.0	003.0000	0041.4	015.4	298.5	001.1800	0140.3	072.1	39.13
177.0	003.0000	0041.1	015.4	298.4	001.1800	0140.4	072.3	39.06
178.0	003.0000	0040.3	015.2	298.4	001.1800	0140.4	072.7	38.96
179.0	003.0000	0038.9	014.9	298.5	001.1800	0140.2	073.0	38.84
180.0	003.0000	0037.0	014.5	298.7	001.1800	0139.9	073.4	38.70
181.0	003.0000	0034.3	014.0	298.9	001.1800	0139.6	073.9	38.54
182.0	003.0000	0031.5	013.5	299.2	001.1800	0139.5	074.3	38.39
183.0	003.0000	0029.2	013.2	299.3	001.1800	0139.5	074.7	38.29
184.0	003.0000	0026.2	013.2	299.2	001.1800	0139.5	074.9	38.23
185.0	003.0000	0023.0	013.2	299.2	001.1800	0139.5	075.1	38.16
186.0	003.0000	0021.1	013.2	299.1	001.1800	0139.5	075.3	38.10

12-02-2014

Terrain Data: USGS 03 SEC

FMOver Analysis

1429619 BNPED20071022BGV

KRUX

Channel = 218A

Max ERP = 1.18 kW

RCAMSL = 1414 M

N. Lat. 31 50 18.0

W. Lng. 106 03 56.0

Protected

60 dBu

Channel = 218A

Max ERP = 3 kW

RCAMSL = 1215 M

N. Lat. 32 17 03.0

W. Lng. 106 45 00.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
248.0	001.1800	0167.9	024.7	144.6	003.0000	-0002.4	072.1	36.30	
249.0	001.1800	0168.5	024.7	144.5	003.0000	-0002.5	071.7	36.38	
250.0	001.1800	0168.6	024.7	144.4	003.0000	-0002.7	071.3	36.46	
251.0	001.1800	0168.6	024.7	144.3	003.0000	-0002.9	070.9	36.53	
252.0	001.1800	0169.1	024.8	144.3	003.0000	-0003.1	070.4	36.61	
253.0	001.1800	0169.5	024.8	144.2	003.0000	-0003.3	070.0	36.68	
254.0	001.1800	0169.7	024.8	144.1	003.0000	-0003.5	069.6	36.76	
255.0	001.1800	0169.9	024.8	143.9	003.0000	-0003.8	069.2	36.83	
256.0	001.1800	0170.0	024.8	143.8	003.0000	-0004.1	068.8	36.90	
257.0	001.1800	0170.0	024.8	143.7	003.0000	-0004.4	068.4	36.98	
258.0	001.1800	0169.9	024.8	143.5	003.0000	-0004.9	068.0	37.05	
259.0	001.1800	0169.8	024.8	143.4	003.0000	-0005.4	067.6	37.12	
260.0	001.1800	0169.4	024.8	143.2	003.0000	-0005.9	067.2	37.19	
261.0	001.1800	0169.0	024.8	143.0	003.0000	-0006.6	066.8	37.26	
262.0	001.1800	0168.5	024.7	142.8	003.0000	-0007.4	066.5	37.32	
263.0	001.1800	0168.0	024.7	142.6	003.0000	-0008.2	066.1	37.39	
264.0	001.1800	0167.3	024.6	142.4	003.0000	-0009.1	065.8	37.45	
265.0	001.1800	0166.5	024.6	142.1	003.0000	-0010.0	065.4	37.52	
266.0	001.1800	0165.6	024.5	141.9	003.0000	-0011.0	065.1	37.58	
267.0	001.1800	0165.0	024.5	141.6	003.0000	-0011.9	064.8	37.64	
268.0	001.1800	0163.9	024.4	141.4	003.0000	-0013.0	064.5	37.70	
269.0	001.1800	0162.4	024.3	141.1	003.0000	-0014.3	064.2	37.75	
270.0	001.1800	0160.4	024.2	140.7	003.0000	-0015.7	063.9	37.80	
271.0	001.1800	0158.2	024.0	140.4	003.0000	-0017.2	063.7	37.84	
272.0	001.1800	0156.6	023.9	140.1	003.0000	-0018.5	063.5	37.89	
273.0	001.1800	0155.3	023.8	139.8	003.0000	-0019.7	063.2	37.94	
274.0	001.1800	0154.3	023.8	139.5	003.0000	-0020.8	063.0	37.98	
275.0	001.1800	0153.7	023.7	139.2	003.0000	-0022.0	062.7	38.04	
276.0	001.1800	0153.0	023.7	138.9	003.0000	-0023.1	062.5	38.09	
277.0	001.1800	0152.1	023.6	138.5	003.0000	-0024.4	062.2	38.13	
278.0	001.1800	0151.3	023.6	138.2	003.0000	-0025.8	062.0	38.18	
279.0	001.1800	0151.1	023.5	137.9	003.0000	-0027.0	061.7	38.23	
280.0	001.1800	0151.2	023.5	137.6	003.0000	-0028.2	061.5	38.28	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
281.0	001.1800	0151.4	023.6	137.3	003.0000	-0029.5	061.2	38.33
282.0	001.1800	0151.8	023.6	137.0	003.0000	-0031.0	061.0	38.38
283.0	001.1800	0152.0	023.6	136.7	003.0000	-0032.6	060.7	38.43
284.0	001.1800	0151.5	023.6	136.4	003.0000	-0034.3	060.5	38.47
285.0	001.1800	0150.4	023.5	136.0	003.0000	-0036.0	060.4	38.50
286.0	001.1800	0150.0	023.5	135.7	003.0000	-0037.3	060.2	38.54
287.0	001.1800	0150.3	023.5	135.3	003.0000	-0038.2	060.0	38.59
288.0	001.1800	0150.5	023.5	135.0	003.0000	-0038.9	059.8	38.63
289.0	001.1800	0150.3	023.5	134.6	003.0000	-0039.8	059.6	38.66
290.0	001.1800	0149.6	023.4	134.3	003.0000	-0040.9	059.5	38.69
291.0	001.1800	0149.1	023.4	133.9	003.0000	-0042.1	059.3	38.72
292.0	001.1800	0148.5	023.4	133.5	003.0000	-0043.5	059.2	38.74
293.0	001.1800	0147.3	023.3	133.1	003.0000	-0045.0	059.1	38.76
294.0	001.1800	0145.9	023.2	132.7	003.0000	-0046.4	059.1	38.77
295.0	001.1800	0145.1	023.1	132.3	003.0000	-0047.7	059.0	38.78
296.0	001.1800	0143.7	023.0	131.9	003.0000	-0049.0	059.0	38.78
297.0	001.1800	0141.9	022.9	131.5	003.0000	-0050.2	059.0	38.78
298.0	001.1800	0140.8	022.8	131.1	003.0000	-0051.5	059.0	38.78
299.0	001.1800	0139.5	022.7	130.7	003.0000	-0052.6	059.0	38.78
300.0	001.1800	0138.9	022.7	130.3	003.0000	-0053.8	059.0	38.79
301.0	001.1800	0137.7	022.6	129.9	003.0000	-0055.0	059.0	38.79
302.0	001.1800	0134.4	022.3	129.5	003.0000	-0056.6	059.2	38.75
303.0	001.1800	0129.1	021.9	129.1	003.0000	-0058.2	059.5	38.68
304.0	001.1800	0125.0	021.6	128.7	003.0000	-0059.9	059.8	38.62
305.0	001.1800	0122.1	021.4	128.3	003.0000	-0061.4	060.0	38.58
306.0	001.1800	0117.4	021.0	128.0	003.0000	-0062.8	060.3	38.51
307.0	001.1800	0114.1	020.8	127.6	003.0000	-0064.0	060.6	38.46
308.0	001.1800	0109.1	020.3	127.3	003.0000	-0065.1	061.0	38.37
309.0	001.1800	0106.5	020.1	126.9	003.0000	-0066.1	061.3	38.32
310.0	001.1800	0105.2	019.9	126.6	003.0000	-0067.1	061.4	38.29
311.0	001.1800	0100.9	019.5	126.3	003.0000	-0068.1	061.9	38.20
312.0	001.1800	0098.7	019.3	126.0	003.0000	-0069.2	062.1	38.15
313.0	001.1800	0101.1	019.5	125.7	003.0000	-0070.7	061.9	38.19
314.0	001.1800	0103.8	019.8	125.4	003.0000	-0072.2	061.7	38.23
315.0	001.1800	0106.9	020.1	125.0	003.0000	-0074.1	061.5	38.28
316.0	001.1800	0109.5	020.3	124.6	003.0000	-0076.5	061.3	38.32
317.0	001.1800	0109.7	020.4	124.3	003.0000	-0077.5	061.3	38.31
318.0	001.1800	0109.6	020.3	124.0	003.0000	-0078.1	061.4	38.29
319.0	001.1800	0106.5	020.1	123.7	003.0000	-0077.9	061.8	38.22
320.0	001.1800	0104.0	019.8	123.5	003.0000	-0077.7	062.1	38.15
321.0	001.1800	0099.8	019.4	123.3	003.0000	-0077.5	062.6	38.05
322.0	001.1800	0094.2	018.8	123.2	003.0000	-0077.4	063.3	37.92
323.0	001.1800	0089.8	018.3	123.0	003.0000	-0077.3	063.9	37.81
324.0	001.1800	0090.1	018.3	122.8	003.0000	-0077.4	063.9	37.80
325.0	001.1800	0091.2	018.5	122.4	003.0000	-0077.7	064.0	37.80
326.0	001.1800	0093.5	018.7	122.1	003.0000	-0078.2	063.8	37.82
327.0	001.1800	0095.0	018.9	121.8	003.0000	-0078.7	063.8	37.82
328.0	001.1800	0094.5	018.8	121.5	003.0000	-0079.1	064.0	37.78
329.0	001.1800	0091.4	018.5	121.4	003.0000	-0079.4	064.5	37.70
330.0	001.1800	0086.8	018.0	121.4	003.0000	-0079.4	065.1	37.58
331.0	001.1800	0083.8	017.6	121.3	003.0000	-0079.7	065.5	37.50



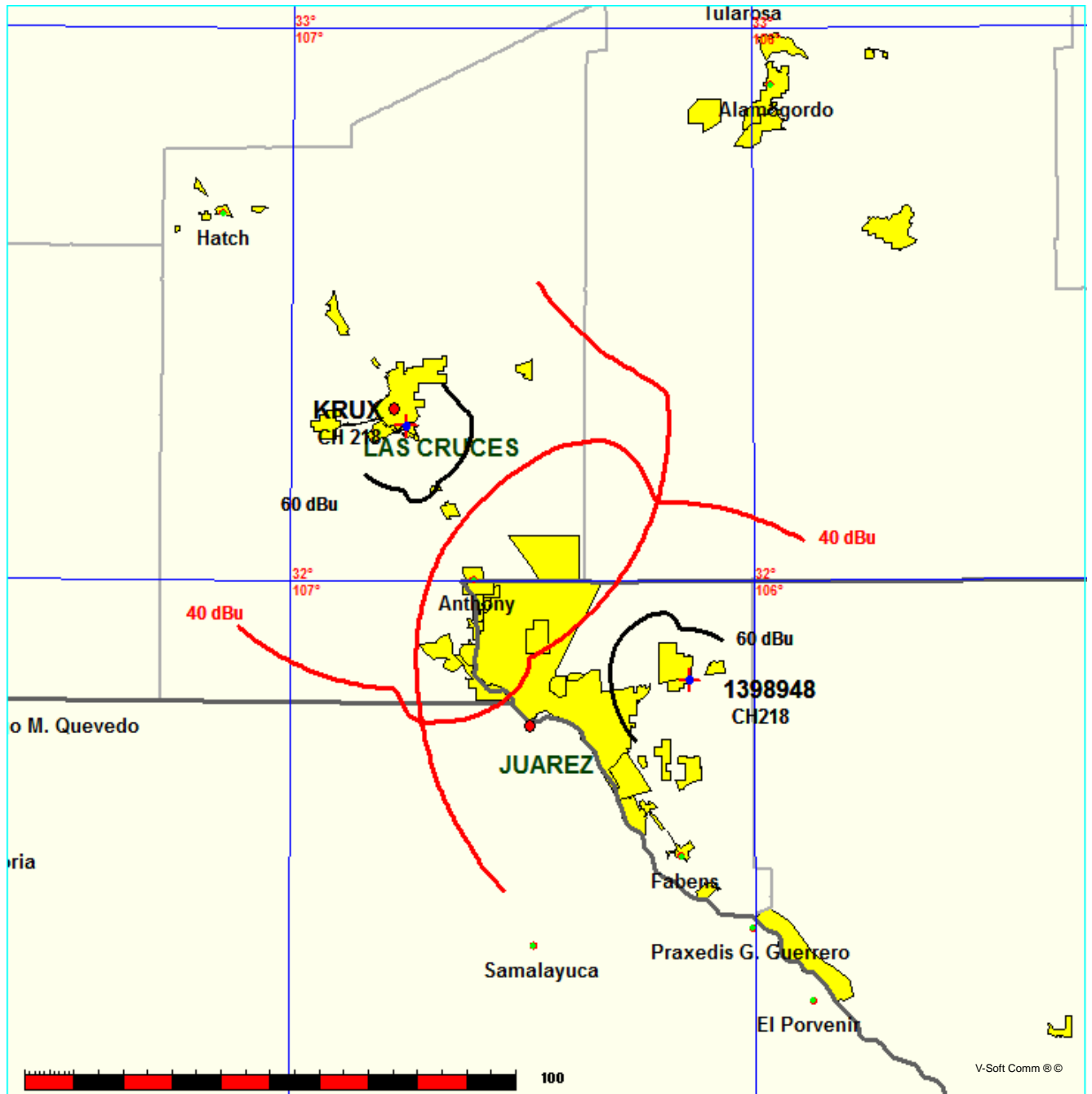
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
332.0	001.1800	0078.2	016.9	121.3	003.0000	-0079.5	066.3	37.36
333.0	001.1800	0072.9	016.3	121.4	003.0000	-0079.4	067.0	37.23
334.0	001.1800	0073.1	016.3	121.2	003.0000	-0079.9	067.1	37.21
335.0	001.1800	0075.8	016.6	120.8	003.0000	-0080.7	067.0	37.23
336.0	001.1800	0077.1	016.8	120.5	003.0000	-0081.3	067.0	37.23
337.0	001.1800	0078.2	016.9	120.3	003.0000	-0081.9	067.1	37.21
338.0	001.1800	0080.1	017.2	120.0	003.0000	-0082.8	067.1	37.21
339.0	001.1800	0082.3	017.4	119.6	003.0000	-0083.7	067.1	37.22
340.0	001.1800	0086.1	017.9	119.2	003.0000	-0085.0	066.9	37.25
341.0	001.1800	0090.4	018.4	118.7	003.0000	-0086.6	066.7	37.27
342.0	001.1800	0092.8	018.6	118.3	003.0000	-0087.9	066.8	37.27
343.0	001.1800	0094.6	018.8	118.0	003.0000	-0089.1	066.9	37.25
344.0	001.1800	0096.5	019.0	117.7	003.0000	-0090.5	066.9	37.24
345.0	001.1800	0097.5	019.1	117.4	003.0000	-0091.5	067.1	37.21
346.0	001.1800	0096.7	019.1	117.3	003.0000	-0092.0	067.4	37.15
347.0	001.1800	0095.0	018.9	117.2	003.0000	-0092.3	067.8	37.09
348.0	001.1800	0087.1	018.0	117.6	003.0000	-0090.7	068.6	36.94
349.0	001.1800	0070.9	016.0	118.7	003.0000	-0086.6	070.1	36.67
350.0	001.1800	0062.7	015.1	119.2	003.0000	-0085.0	070.9	36.52
351.0	001.1800	0068.2	015.7	118.6	003.0000	-0086.8	070.7	36.55
352.0	001.1800	0078.4	017.0	117.7	003.0000	-0090.6	070.2	36.65
353.0	001.1800	0085.6	017.8	116.9	003.0000	-0093.3	070.0	36.69
354.0	001.1800	0085.4	017.8	116.8	003.0000	-0093.7	070.2	36.64
355.0	001.1800	0083.6	017.6	116.8	003.0000	-0093.7	070.6	36.58
356.0	001.1800	0081.4	017.3	116.9	003.0000	-0093.5	071.0	36.51
357.0	001.1800	0079.4	017.1	116.9	003.0000	-0093.4	071.4	36.44
358.0	001.1800	0077.4	016.8	117.0	003.0000	-0093.2	071.8	36.37
359.0	001.1800	0074.9	016.5	117.1	003.0000	-0092.8	072.2	36.30
000.0	001.1800	0073.5	016.3	117.1	003.0000	-0092.7	072.5	36.24
001.0	001.1800	0071.3	016.1	117.2	003.0000	-0092.4	072.9	36.17
002.0	001.1800	0068.5	015.7	117.3	003.0000	-0091.8	073.3	36.10
003.0	001.1800	0065.0	015.3	117.5	003.0000	-0091.1	073.7	36.02
004.0	001.1800	0061.2	014.9	117.7	003.0000	-0090.2	074.1	35.94
005.0	001.1800	0056.3	014.3	118.1	003.0000	-0088.8	074.6	35.86
006.0	001.1800	0048.9	013.3	118.7	003.0000	-0086.6	075.2	35.75
007.0	001.1800	0039.1	011.9	119.6	003.0000	-0083.7	075.9	35.61

KRUXNew vs. Horizon City (Christian Ministries)  
Bd Of Regents, New Mexico St. Univ.

FMCommander Single Allocation Study - 12-02-2014 - USGS 03 SEC  
KRUX's Overlaps (In= 8.29 km, Out= 7.85 km)

KRUX CH 218 A DA  
Lat= 32 17 03.0, Lng= 106 45 00.0  
3.0 kW -58.3 M HAAT, 1215 M COR  
Prot.= 60 dBu, Intef.= 40 dBu

1398948 CH 218 A DA BNPED20071019AHM  
Lat= 31 49 21.0, Lng= 106 08 22.0  
2.3 kW 17 M HAAT, 1303 M COR  
Prot.= 60 dBu, Intef.= 40 dBu



12-02-2014

Terrain Data: USGS 03 SEC

FMOver Analysis

KRUX

1398948 BNPED20071019AHM

Channel = 218A

Max ERP = 3 kW

RCAMSL = 1215 M

N. Lat. 32 17 03.0

W. Lng. 106 45 00.0

Protected

60 dBu

Channel = 218A

Max ERP = 2.3 kW

RCAMSL = 1303 M

N. Lat. 31 49 21.0

W. Lng. 106 08 22.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
072.0	001.7972	-0233.5	011.7	320.0	001.1464	0067.0	071.9	35.04	
073.0	001.8818	-0235.5	011.8	320.0	001.1464	0067.0	071.6	35.10	
074.0	001.9683	-0234.3	012.0	320.0	001.1464	0067.0	071.4	35.16	
075.0	002.0617	-0236.4	012.1	320.1	001.1463	0067.0	071.2	35.22	
076.0	002.1573	-0243.6	012.2	320.1	001.1463	0066.9	070.9	35.29	
077.0	002.2603	-0256.6	012.4	320.1	001.1463	0066.9	070.7	35.35	
078.0	002.3656	-0262.4	012.5	320.1	001.1463	0066.9	070.4	35.42	
079.0	002.4788	-0254.7	012.6	320.1	001.1462	0066.9	070.1	35.49	
080.0	002.5947	-0250.5	012.8	320.1	001.1462	0066.9	069.9	35.56	
081.0	002.7189	-0249.4	012.9	320.1	001.1462	0066.9	069.6	35.63	
082.0	002.8460	-0246.3	013.1	320.1	001.1462	0066.9	069.4	35.70	
083.0	002.9820	-0248.9	013.2	320.1	001.1462	0066.9	069.1	35.77	
084.0	003.0000	-0254.4	013.2	320.0	001.1463	0067.0	068.9	35.83	
085.0	003.0000	-0253.2	013.2	319.9	001.1465	0067.0	068.7	35.88	
086.0	003.0000	-0244.1	013.2	319.8	001.1466	0067.0	068.5	35.93	
087.0	003.0000	-0238.0	013.2	319.7	001.1468	0067.1	068.3	35.99	
088.0	003.0000	-0227.3	013.2	319.6	001.1469	0067.2	068.1	36.04	
089.0	003.0000	-0217.0	013.2	319.5	001.1471	0067.3	068.0	36.09	
090.0	003.0000	-0212.2	013.2	319.3	001.1473	0067.3	067.8	36.15	
091.0	003.0000	-0208.1	013.2	319.2	001.1474	0067.4	067.6	36.19	
092.0	003.0000	-0206.0	013.2	319.1	001.1476	0067.4	067.4	36.24	
093.0	003.0000	-0208.8	013.2	318.9	001.1478	0067.4	067.3	36.29	
094.0	003.0000	-0207.0	013.2	318.8	001.1480	0067.4	067.1	36.33	
095.0	003.0000	-0203.9	013.2	318.7	001.1481	0067.4	066.9	36.38	
096.0	003.0000	-0194.0	013.2	318.5	001.1483	0067.4	066.8	36.42	
097.0	003.0000	-0184.4	013.2	318.4	001.1485	0067.5	066.6	36.46	
098.0	003.0000	-0180.6	013.2	318.2	001.1487	0067.5	066.5	36.51	
099.0	003.0000	-0187.3	013.2	318.1	001.1489	0067.5	066.3	36.55	
100.0	003.0000	-0186.9	013.2	317.9	001.1491	0067.5	066.2	36.59	
101.0	003.0000	-0173.3	013.2	317.7	001.1493	0067.5	066.1	36.63	
102.0	003.0000	-0163.9	013.2	317.6	001.1495	0067.6	065.9	36.67	
103.0	003.0000	-0159.6	013.2	317.4	001.1498	0067.6	065.8	36.71	
104.0	003.0000	-0153.0	013.2	317.2	001.1500	0067.7	065.7	36.74	
105.0	003.0000	-0146.7	013.2	317.1	001.1502	0067.7	065.5	36.78	
106.0	003.0000	-0143.4	013.2	316.9	001.1504	0067.8	065.4	36.82	
107.0	003.0000	-0141.3	013.2	316.7	001.1507	0067.9	065.3	36.86	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
108.0	003.0000	-0142.0	013.2	316.6	001.1509	0067.9	065.2	36.89
109.0	003.0000	-0143.8	013.2	316.4	001.1511	0068.0	065.1	36.93
110.0	003.0000	-0138.8	013.2	316.2	001.1514	0068.1	065.0	36.96
111.0	003.0000	-0126.7	013.2	316.0	001.1516	0068.1	064.9	36.99
112.0	003.0000	-0119.0	013.2	315.8	001.1518	0068.2	064.8	37.03
113.0	003.0000	-0114.1	013.2	315.6	001.1521	0068.3	064.7	37.05
114.0	003.0000	-0108.0	013.2	315.4	001.1523	0068.3	064.6	37.08
115.0	003.0000	-0102.3	013.2	315.2	001.1526	0068.3	064.5	37.10
116.0	003.0000	-0096.5	013.2	315.1	001.1528	0068.4	064.5	37.13
117.0	003.0000	-0093.1	013.2	314.9	001.1527	0068.4	064.4	37.15
118.0	003.0000	-0089.1	013.2	314.7	001.1525	0068.5	064.3	37.17
119.0	003.0000	-0085.5	013.2	314.5	001.1522	0068.5	064.3	37.19
120.0	003.0000	-0082.6	013.2	314.3	001.1520	0068.6	064.2	37.21
121.0	003.0000	-0080.3	013.2	314.1	001.1517	0068.6	064.1	37.23
122.0	003.0000	-0078.3	013.2	313.9	001.1514	0068.7	064.1	37.25
123.0	003.0000	-0077.3	013.2	313.7	001.1512	0068.8	064.1	37.26
124.0	003.0000	-0078.1	013.2	313.5	001.1509	0068.8	064.0	37.28
125.0	003.0000	-0074.1	013.2	313.3	001.1506	0068.9	064.0	37.29
126.0	003.0000	-0069.4	013.2	313.1	001.1504	0069.0	064.0	37.30
127.0	003.0000	-0066.0	013.2	312.8	001.1501	0069.1	063.9	37.31
128.0	003.0000	-0062.7	013.2	312.6	001.1498	0069.2	063.9	37.33
129.0	003.0000	-0058.6	013.2	312.4	001.1496	0069.3	063.9	37.34
130.0	003.0000	-0054.7	013.2	312.2	001.1493	0069.4	063.9	37.35
131.0	003.0000	-0051.8	013.2	312.0	001.1490	0069.4	063.9	37.35
132.0	003.0000	-0048.7	013.2	311.8	001.1488	0069.5	063.9	37.36
133.0	003.0000	-0045.4	013.2	311.6	001.1485	0069.6	063.9	37.36
134.0	003.0000	-0041.7	013.2	311.4	001.1482	0069.7	063.9	37.37
135.0	003.0000	-0038.9	013.2	311.2	001.1480	0069.9	063.9	37.37
136.0	003.0000	-0036.1	013.2	311.0	001.1477	0070.0	063.9	37.37
137.0	003.0000	-0031.1	013.2	310.8	001.1474	0070.1	064.0	37.37
138.0	003.0000	-0026.7	013.2	310.6	001.1471	0070.2	064.0	37.37
139.0	003.0000	-0022.6	013.2	310.4	001.1469	0070.3	064.0	37.36
140.0	003.0000	-0018.8	013.2	310.2	001.1466	0070.3	064.1	37.36
141.0	003.0000	-0014.6	013.2	310.0	001.1464	0070.4	064.1	37.35
142.0	003.0000	-0010.5	013.2	309.8	001.1461	0070.5	064.1	37.34
143.0	003.0000	-0006.7	013.2	309.6	001.1458	0070.6	064.2	37.34
144.0	003.0000	-0003.6	013.2	309.4	001.1456	0070.7	064.3	37.33
145.0	003.0000	-0001.4	013.2	309.2	001.1453	0070.8	064.3	37.32
146.0	003.0000	0001.4	013.2	309.0	001.1451	0070.9	064.4	37.30
147.0	003.0000	0005.4	013.2	308.8	001.1448	0071.0	064.5	37.29
148.0	003.0000	0010.3	013.2	308.6	001.1446	0071.1	064.5	37.27
149.0	003.0000	0015.4	013.2	308.4	001.1443	0071.2	064.6	37.26
150.0	003.0000	0020.2	013.2	308.2	001.1441	0071.3	064.7	37.24
151.0	003.0000	0024.7	013.2	308.0	001.1438	0071.4	064.8	37.22
152.0	003.0000	0028.8	013.2	307.8	001.1436	0071.5	064.9	37.20
153.0	003.0000	0032.0	013.6	307.5	001.1432	0071.7	064.7	37.28
154.0	003.0000	0033.8	013.9	307.2	001.1427	0071.9	064.5	37.34
155.0	003.0000	0034.9	014.1	306.9	001.1424	0072.0	064.4	37.37
156.0	003.0000	0036.1	014.4	306.6	001.1420	0072.1	064.3	37.40
157.0	003.0000	0037.0	014.5	306.3	001.1416	0072.3	064.3	37.41
158.0	003.0000	0037.7	014.7	306.1	001.1413	0072.4	064.3	37.42

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
159.0	003.0000	0038.4	014.8	305.8	001.1410	0072.5	064.3	37.42
160.0	003.0000	0039.0	014.9	305.6	001.1406	0072.7	064.4	37.41
161.0	003.0000	0039.5	015.0	305.3	001.1403	0072.8	064.4	37.40
162.0	003.0000	0040.1	015.2	305.1	001.1400	0072.9	064.5	37.39
163.0	003.0000	0040.7	015.3	304.8	001.1393	0073.0	064.6	37.37
164.0	003.0000	0041.1	015.3	304.6	001.1385	0073.1	064.7	37.35
165.0	003.0000	0041.4	015.4	304.4	001.1377	0073.2	064.8	37.32
166.0	003.0000	0041.8	015.5	304.1	001.1369	0073.3	064.9	37.29
167.0	003.0000	0041.9	015.5	304.0	001.1362	0073.4	065.1	37.25
168.0	003.0000	0042.1	015.5	303.8	001.1355	0073.5	065.2	37.21
169.0	003.0000	0042.2	015.6	303.6	001.1349	0073.6	065.4	37.16
170.0	003.0000	0042.2	015.6	303.4	001.1343	0073.6	065.6	37.11
171.0	003.0000	0042.1	015.6	303.3	001.1338	0073.6	065.8	37.05
172.0	003.0000	0041.9	015.5	303.1	001.1333	0073.7	066.1	36.99
173.0	003.0000	0041.8	015.5	303.0	001.1328	0073.8	066.3	36.93
174.0	003.0000	0041.7	015.5	302.9	001.1323	0073.9	066.5	36.87
175.0	003.0000	0041.5	015.4	302.7	001.1319	0074.0	066.7	36.81
176.0	003.0000	0041.4	015.4	302.6	001.1315	0074.0	067.0	36.75
177.0	003.0000	0041.1	015.4	302.5	001.1311	0074.1	067.2	36.69
178.0	003.0000	0040.3	015.2	302.5	001.1311	0074.1	067.5	36.60
179.0	003.0000	0038.9	014.9	302.6	001.1314	0074.0	067.9	36.50
180.0	003.0000	0037.0	014.5	302.7	001.1319	0074.0	068.3	36.38
181.0	003.0000	0034.3	014.0	303.0	001.1328	0073.8	068.8	36.24
182.0	003.0000	0031.5	013.5	303.3	001.1337	0073.6	069.3	36.10
183.0	003.0000	0029.2	013.2	303.4	001.1341	0073.6	069.6	36.01
184.0	003.0000	0026.2	013.2	303.3	001.1338	0073.6	069.8	35.96
185.0	003.0000	0023.0	013.2	303.2	001.1334	0073.7	070.0	35.90
186.0	003.0000	0021.1	013.2	303.1	001.1331	0073.7	070.2	35.85
187.0	003.0000	0019.0	013.2	303.0	001.1328	0073.8	070.4	35.79
188.0	003.0000	0016.4	013.2	302.9	001.1326	0073.8	070.7	35.74
189.0	003.0000	0014.1	013.2	302.9	001.1323	0073.9	070.9	35.69
190.0	003.0000	0012.6	013.2	302.8	001.1320	0073.9	071.1	35.63
191.0	003.0000	0011.2	013.2	302.7	001.1318	0074.0	071.3	35.57

12-02-2014

Terrain Data: USGS 03 SEC

FMOver Analysis

1398948 BNPED20071019AHM

KRUX

Channel = 218A

Max ERP = 2.3 kW

RCAMSL = 1303 M

N. Lat. 31 49 21.0

W. Lng. 106 08 22.0

Protected

60 dBu

Channel = 218A

Max ERP = 3 kW

RCAMSL = 1215 M

N. Lat. 32 17 03.0

W. Lng. 106 45 00.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
252.0	000.9486	0078.8	016.0	142.9	003.0000	-0007.0	070.5	36.60	
253.0	000.9474	0078.8	016.0	142.8	003.0000	-0007.3	070.2	36.65	
254.0	000.9462	0078.7	016.0	142.7	003.0000	-0007.7	069.9	36.70	
255.0	000.9450	0078.6	016.0	142.6	003.0000	-0008.0	069.7	36.74	
256.0	000.9468	0078.6	016.0	142.5	003.0000	-0008.4	069.4	36.79	
257.0	000.9486	0078.6	016.0	142.5	003.0000	-0008.7	069.2	36.84	
258.0	000.9503	0078.5	016.0	142.4	003.0000	-0009.1	068.9	36.88	
259.0	000.9521	0078.5	016.0	142.3	003.0000	-0009.5	068.7	36.93	
260.0	000.9539	0078.5	016.0	142.2	003.0000	-0009.9	068.4	36.97	
261.0	000.9557	0078.5	016.0	142.1	003.0000	-0010.3	068.2	37.02	
262.0	000.9575	0078.5	016.0	142.0	003.0000	-0010.7	067.9	37.06	
263.0	000.9592	0078.4	016.0	141.8	003.0000	-0011.2	067.7	37.11	
264.0	000.9610	0078.4	016.0	141.7	003.0000	-0011.6	067.4	37.15	
265.0	000.9628	0078.4	016.0	141.6	003.0000	-0012.1	067.2	37.19	
266.0	000.9670	0078.5	016.0	141.5	003.0000	-0012.6	066.9	37.24	
267.0	000.9712	0078.5	016.1	141.4	003.0000	-0013.1	066.7	37.28	
268.0	000.9753	0078.4	016.1	141.2	003.0000	-0013.6	066.5	37.33	
269.0	000.9795	0078.5	016.1	141.1	003.0000	-0014.2	066.2	37.37	
270.0	000.9837	0078.5	016.1	141.0	003.0000	-0014.8	066.0	37.41	
271.0	000.9880	0078.5	016.1	140.8	003.0000	-0015.4	065.8	37.46	
272.0	000.9922	0078.5	016.2	140.7	003.0000	-0016.0	065.5	37.50	
273.0	000.9964	0078.6	016.2	140.5	003.0000	-0016.6	065.3	37.54	
274.0	001.0007	0078.7	016.2	140.4	003.0000	-0017.2	065.1	37.59	
275.0	001.0049	0078.7	016.2	140.2	003.0000	-0017.9	064.8	37.63	
276.0	001.0104	0078.7	016.3	140.1	003.0000	-0018.5	064.6	37.67	
277.0	001.0159	0078.7	016.3	139.9	003.0000	-0019.2	064.4	37.71	
278.0	001.0214	0078.8	016.3	139.7	003.0000	-0019.9	064.2	37.75	
279.0	001.0269	0078.8	016.3	139.6	003.0000	-0020.5	064.0	37.79	
280.0	001.0325	0078.7	016.4	139.4	003.0000	-0021.2	063.8	37.83	
281.0	001.0380	0078.6	016.4	139.2	003.0000	-0021.9	063.6	37.86	
282.0	001.0436	0078.5	016.4	139.0	003.0000	-0022.7	063.4	37.90	
283.0	001.0492	0078.2	016.4	138.8	003.0000	-0023.5	063.3	37.93	
284.0	001.0548	0078.1	016.4	138.6	003.0000	-0024.3	063.1	37.96	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
285.0	001.0604	0078.0	016.4	138.4	003.0000	-0025.3	062.9	38.00
286.0	001.0648	0077.8	016.4	138.1	003.0000	-0026.2	062.8	38.03
287.0	001.0692	0077.7	016.4	137.9	003.0000	-0027.1	062.6	38.06
288.0	001.0736	0077.6	016.4	137.7	003.0000	-0028.0	062.4	38.09
289.0	001.0780	0077.5	016.4	137.5	003.0000	-0028.9	062.3	38.12
290.0	001.0824	0077.5	016.4	137.2	003.0000	-0029.9	062.2	38.15
291.0	001.0868	0077.3	016.4	137.0	003.0000	-0031.1	062.0	38.17
292.0	001.0912	0077.2	016.4	136.8	003.0000	-0032.4	061.9	38.20
293.0	001.0957	0077.0	016.4	136.5	003.0000	-0033.6	061.8	38.22
294.0	001.1001	0076.8	016.4	136.3	003.0000	-0034.8	061.7	38.24
295.0	001.1046	0076.6	016.4	136.0	003.0000	-0036.0	061.6	38.26
296.0	001.1081	0076.4	016.4	135.8	003.0000	-0036.9	061.5	38.28
297.0	001.1116	0076.2	016.4	135.5	003.0000	-0037.7	061.4	38.30
298.0	001.1151	0075.9	016.4	135.3	003.0000	-0038.3	061.3	38.31
299.0	001.1186	0075.5	016.4	135.0	003.0000	-0038.9	061.3	38.32
300.0	001.1222	0075.1	016.3	134.7	003.0000	-0039.6	061.2	38.33
301.0	001.1257	0074.8	016.3	134.5	003.0000	-0040.3	061.2	38.34
302.0	001.1293	0074.3	016.2	134.2	003.0000	-0041.1	061.2	38.34
303.0	001.1328	0073.8	016.2	133.9	003.0000	-0042.0	061.1	38.35
304.0	001.1364	0073.4	016.2	133.7	003.0000	-0042.9	061.1	38.35
305.0	001.1399	0072.9	016.1	133.4	003.0000	-0043.9	061.1	38.35
306.0	001.1412	0072.4	016.1	133.1	003.0000	-0044.9	061.1	38.35
307.0	001.1425	0072.0	016.0	132.9	003.0000	-0045.9	061.2	38.34
308.0	001.1438	0071.4	016.0	132.6	003.0000	-0046.8	061.2	38.34
309.0	001.1451	0070.9	015.9	132.3	003.0000	-0047.6	061.2	38.33
310.0	001.1464	0070.4	015.8	132.1	003.0000	-0048.5	061.3	38.32
311.0	001.1477	0070.0	015.8	131.8	003.0000	-0049.3	061.3	38.31
312.0	001.1490	0069.5	015.7	131.5	003.0000	-0050.1	061.4	38.30
313.0	001.1503	0069.0	015.7	131.3	003.0000	-0050.9	061.4	38.29
314.0	001.1516	0068.6	015.6	131.0	003.0000	-0051.7	061.5	38.28
315.0	001.1529	0068.4	015.6	130.8	003.0000	-0052.4	061.5	38.27
316.0	001.1516	0068.1	015.6	130.5	003.0000	-0053.1	061.6	38.26
317.0	001.1503	0067.8	015.5	130.3	003.0000	-0053.9	061.6	38.25
318.0	001.1490	0067.5	015.5	130.0	003.0000	-0054.6	061.7	38.23
319.0	001.1477	0067.4	015.5	129.8	003.0000	-0055.5	061.8	38.22
320.0	001.1464	0067.0	015.4	129.6	003.0000	-0056.4	061.9	38.20
321.0	001.1451	0066.6	015.4	129.3	003.0000	-0057.4	062.0	38.18
322.0	001.1438	0066.4	015.4	129.1	003.0000	-0058.3	062.0	38.17
323.0	001.1425	0066.0	015.3	128.9	003.0000	-0059.2	062.1	38.15
324.0	001.1412	0065.8	015.3	128.6	003.0000	-0060.2	062.2	38.13
325.0	001.1399	0065.5	015.2	128.4	003.0000	-0061.1	062.3	38.11
326.0	001.1364	0065.5	015.2	128.2	003.0000	-0062.0	062.4	38.09
327.0	001.1328	0065.4	015.2	127.9	003.0000	-0062.9	062.5	38.07
328.0	001.1293	0065.4	015.2	127.7	003.0000	-0063.7	062.6	38.05
329.0	001.1257	0065.2	015.2	127.5	003.0000	-0064.4	062.8	38.02
330.0	001.1222	0064.7	015.1	127.3	003.0000	-0065.0	062.9	37.99
331.0	001.1186	0064.3	015.0	127.1	003.0000	-0065.6	063.1	37.96
332.0	001.1151	0063.6	014.9	126.9	003.0000	-0066.2	063.3	37.92
333.0	001.1116	0062.8	014.8	126.7	003.0000	-0066.7	063.5	37.89
334.0	001.1081	0062.1	014.8	126.6	003.0000	-0067.3	063.7	37.85
335.0	001.1046	0061.3	014.7	126.4	003.0000	-0067.8	063.9	37.81

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
336.0	001.0998	0060.6	014.6	126.3	003.0000	-0068.4	064.1	37.77
337.0	001.0950	0060.0	014.5	126.1	003.0000	-0069.0	064.3	37.73
338.0	001.0903	0059.5	014.4	125.9	003.0000	-0069.7	064.5	37.70
339.0	001.0855	0058.9	014.3	125.8	003.0000	-0070.4	064.7	37.66
340.0	001.0808	0057.8	014.2	125.7	003.0000	-0070.9	064.9	37.61
341.0	001.0761	0056.6	014.0	125.6	003.0000	-0071.3	065.2	37.56
342.0	001.0714	0054.8	013.8	125.5	003.0000	-0071.5	065.5	37.50
343.0	001.0667	0052.8	013.5	125.5	003.0000	-0071.6	065.9	37.43
344.0	001.0620	0050.9	013.3	125.5	003.0000	-0071.7	066.2	37.37
345.0	001.0573	0048.5	012.9	125.5	003.0000	-0071.6	066.6	37.29
346.0	001.0520	0045.8	012.6	125.6	003.0000	-0071.3	067.1	37.21
347.0	001.0467	0042.3	012.1	125.7	003.0000	-0070.8	067.6	37.12
348.0	001.0414	0036.5	011.2	126.0	003.0000	-0069.3	068.4	36.98
349.0	001.0362	0032.1	010.6	126.3	003.0000	-0068.3	069.0	36.87
350.0	001.0309	0030.5	010.3	126.3	003.0000	-0068.2	069.3	36.81
351.0	001.0257	0027.7	010.2	126.2	003.0000	-0068.4	069.5	36.78
352.0	001.0205	0022.0	010.2	126.2	003.0000	-0068.7	069.6	36.76
353.0	001.0153	0016.4	010.2	126.1	003.0000	-0069.1	069.7	36.73
354.0	001.0101	0014.6	010.2	126.0	003.0000	-0069.5	069.9	36.71
355.0	001.0049	0015.2	010.2	125.9	003.0000	-0069.9	070.0	36.68
356.0	001.0007	0013.2	010.2	125.8	003.0000	-0070.3	070.2	36.66
357.0	000.9964	0009.3	010.2	125.7	003.0000	-0070.7	070.3	36.63
358.0	000.9922	0007.1	010.1	125.6	003.0000	-0071.1	070.4	36.60
359.0	000.9880	0006.4	010.1	125.5	003.0000	-0071.4	070.6	36.58
000.0	000.9837	0001.2	010.1	125.5	003.0000	-0071.7	070.7	36.55
001.0	000.9795	-0003.0	010.1	125.4	003.0000	-0072.1	070.9	36.52
002.0	000.9753	-0006.8	010.1	125.3	003.0000	-0072.4	071.0	36.50
003.0	000.9712	-0007.6	010.1	125.2	003.0000	-0072.8	071.2	36.47
004.0	000.9670	-0009.6	010.1	125.2	003.0000	-0073.2	071.4	36.44
005.0	000.9628	-0011.8	010.1	125.1	003.0000	-0073.5	071.5	36.41
006.0	000.9610	-0012.6	010.1	125.0	003.0000	-0073.9	071.7	36.39
007.0	000.9592	-0016.4	010.1	125.0	003.0000	-0074.2	071.8	36.36
008.0	000.9575	-0020.7	010.1	124.9	003.0000	-0074.6	072.0	36.33
009.0	000.9557	-0023.3	010.0	124.9	003.0000	-0074.9	072.1	36.30
010.0	000.9539	-0021.2	010.0	124.8	003.0000	-0075.3	072.3	36.27
011.0	000.9521	-0018.3	010.0	124.7	003.0000	-0075.7	072.5	36.24