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Contour-to-Contour Channel Study - KRUX

Bd Of Regents, New Mexico St. Univ.

CH# 218A - 91.5 MHz, Pwr= 1.9 kW DA, HAAT= -41.5 M, COR= 1235 M

Average Protected F(50-50)= 11.86 km

Standard Directional

DISPLAY DATES

DATA 06-08-17

SEARCH 06-08-17

REFERENCE
32 16 58.5 N.
106 44 49.7 W.

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
218A Las Cruces	KRUX	CP NM	DCX	0.0 0.0	0.00 BMPED20160429ABH	32 16 58.5 106 44 49.7	1.200 -40	37.9 1235	10.6 Bd of Regents, New Mexico	-49.8*	-55.2*
218A Las Cruces	KRUX	LIC NM	_CN	297.4 117.4	0.30 BLED19890928KA	32 17 03.0 106 45 00.0	1.000 -59	35.6 1215	10.2 Bd of Regents, New Mexico	-47.2*	-54.4*
218A Horizon City	NEW	CP TX	DCX	126.7 307.1	82.20 BNPED20071022BGV	31 50 21.0 106 02 57.3	1.600 13	69.0 1407	19.8 Open Arms Community Of El	0.1	15.0
219C2 Alamogordo	KLAF	LIC NM	_CX	52.8 233.2	101.02 BMLED20131107AGU	32 49 47.0 105 53 10.0	1.400 512	90.1 2401	60.7 Educational Media Foundati	0.9	26.9
220C3 Hatch	KIHM-FM	CP NM	DCX	326.6 146.5	54.68 BMPED20120203ABV	32 41 35.7 107 04 06.9	1.100 331	2.2 1673	38.3 Ihr Educational Broadcasti	38.8	14.7
271C El Paso	KPRR«	LIC TX	_EN	155.1 335.3	59.93 BLH19860813KB	31 47 34.0 106 28 47.0	100.000 363	0.0 1583	0.0 Cc Licenses, LLC	28.5R	31.4M
216A El Paso	KVER	LIC TX	_CX	155.1 335.3	60.05 BMLED20160217ABA	31 47 33.0 106 28 48.0	0.510 340	1.6 1560	20.1 World Radio Network, Inc.	42.0	33.2
216C2 Truth Or Consequenc	KLCF	CP NM	DCX	329.7 149.5	88.59 BMPED20170111AAC	32 58 13.0 107 13 33.0	1.050 829	2.2 2330	46.6 Educational Media Foundati	72.8	39.5
216C3 Truth Or Consequenc	KLCF	LIC NM	_CX	329.7 149.4	88.51 BLED20131030ADG	32 58 10.0 107 13 33.0	0.190 780	1.0 2294	30.3 Educational Media Foundati	74.0	55.8

Terrain database is NED 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

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.

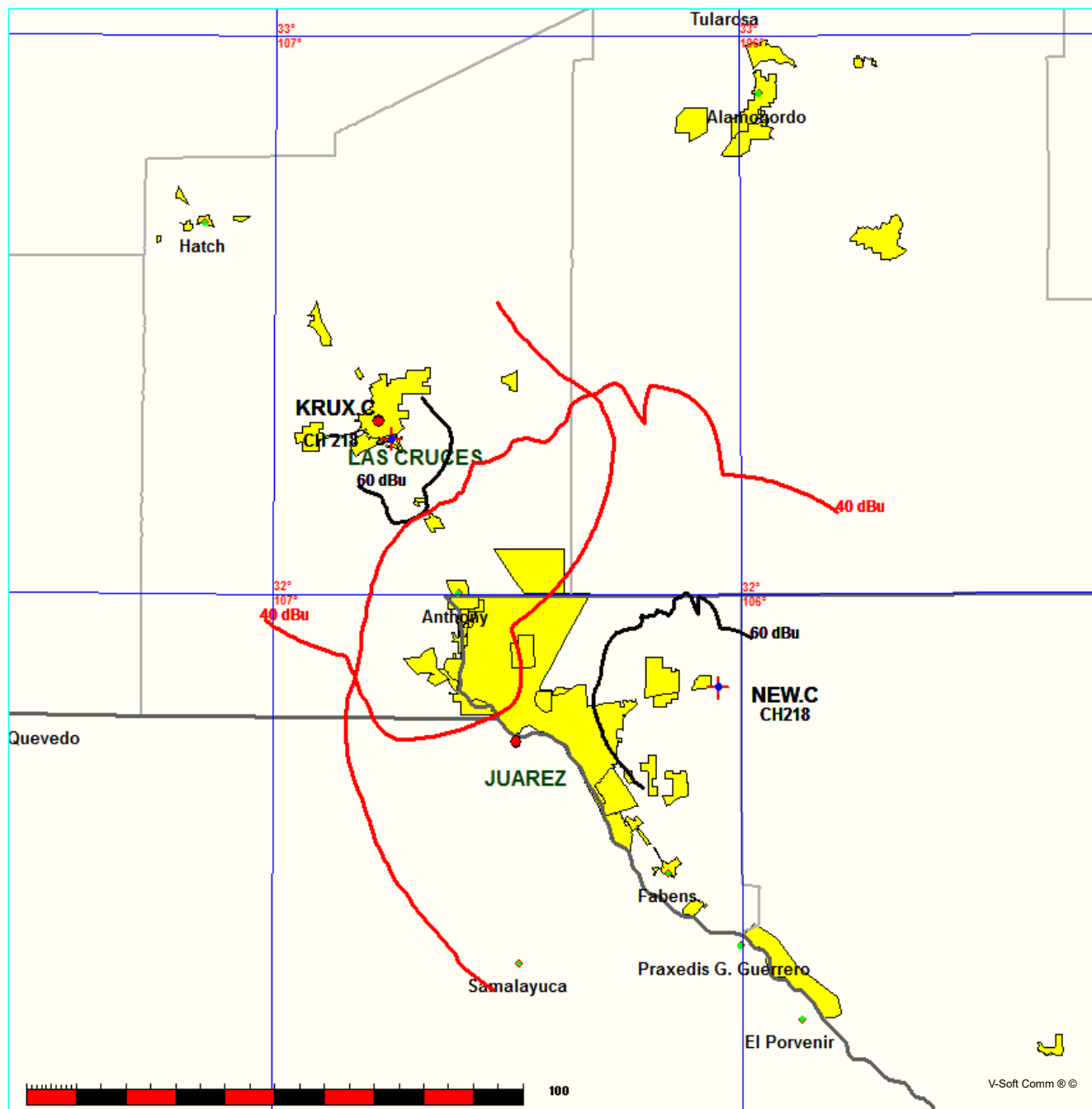
Translator relationships with LPTV/Translators are calculated using the 62 dBu protected and the F(50-10) interference contour, as defined in section 74.1205 of the Rules.

Contour-to-Contour Map KRUX vs NEW.C
Bd Of Regents, New Mexico St. Univ.

FMCommander Single Allocation Study - 06-09-2017 - NED 03 SEC
KRUX.C's Overlaps (In= 0.15 km, Out= 15.03 km)

KRUX.C CH 218 A DA
Lat= 32 16 58.5, Lng= 106 44 49.7
1.9 kW -41.5 m HAAT, 1235 m COR
Prot.= 60 dBu, Intef.= 40 dBu

NEW-C CH 218 A DA BNPED20071022BGV
Lat= 31 50 21.0, Lng= 106 02 57.3
1.6 kW 12.6 m HAAT, 1407 m COR
Prot.= 60 dBu, Intef.= 40 dBu



06-09-2017

Terrain Data: NED 03 SEC

FMOver Analysis

KRUX.C

NEW BNPED20071022BGV

Channel = 218A
 Max ERP = 1.9 kW
 RCAMSL = 1235 m
 N. Lat. 32 16 58.5
 W. Lng. 106 44 49.7
 Protected
 60 dBu

Channel = 218A
 Max ERP = 1.6 kW
 RCAMSL = 1407 m
 N. Lat. 31 50 21.0
 W. Lng. 106 02 57.3
 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	000.9768	-0209.6	010.1	313.5	001.6000	0089.5	077.6	36.24	
068.0	000.9987	-0211.3	010.2	313.5	001.6000	0089.6	077.4	36.30	
069.0	001.0181	-0215.0	010.2	313.5	001.6000	0089.7	077.2	36.35	
070.0	001.0376	-0217.7	010.3	313.5	001.6000	0089.9	077.1	36.41	
071.0	001.0917	-0227.2	010.4	313.5	001.6000	0089.7	076.8	36.47	
072.0	001.1471	-0233.3	010.5	313.5	001.6000	0089.7	076.6	36.52	
073.0	001.2039	-0232.0	010.6	313.5	001.6000	0089.6	076.4	36.58	
074.0	001.2620	-0232.7	010.8	313.5	001.6000	0089.5	076.2	36.64	
075.0	001.3247	-0239.6	010.9	313.5	001.6000	0089.5	075.9	36.70	
076.0	001.3857	-0249.8	011.0	313.5	001.6000	0089.5	075.7	36.76	
077.0	001.4480	-0264.2	011.1	313.5	001.6000	0089.5	075.5	36.83	
078.0	001.5118	-0254.4	011.2	313.5	001.6000	0089.6	075.3	36.89	
079.0	001.5768	-0245.7	011.3	313.5	001.6000	0089.7	075.0	36.96	
080.0	001.6433	-0246.1	011.5	313.5	001.6000	0089.8	074.8	37.03	
081.0	001.6681	-0240.7	011.5	313.4	001.6000	0090.2	074.6	37.10	
082.0	001.6932	-0241.5	011.5	313.3	001.6000	0090.5	074.4	37.17	
083.0	001.7184	-0247.5	011.6	313.2	001.6000	0090.9	074.3	37.24	
084.0	001.7438	-0248.3	011.6	313.2	001.6000	0091.2	074.1	37.31	
085.0	001.7693	-0239.8	011.7	313.1	001.6000	0091.5	073.9	37.38	
086.0	001.7951	-0235.7	011.7	313.0	001.6000	0092.0	073.7	37.46	
087.0	001.8210	-0224.9	011.7	312.9	001.6000	0092.8	073.6	37.55	
088.0	001.8472	-0211.9	011.8	312.8	001.6000	0093.6	073.4	37.65	
089.0	001.8735	-0205.3	011.8	312.7	001.6000	0094.6	073.2	37.75	
090.0	001.9000	-0203.1	011.9	312.6	001.6000	0095.5	073.0	37.85	
091.0	001.9000	-0202.0	011.9	312.5	001.6000	0096.5	072.9	37.94	
092.0	001.9000	-0203.9	011.9	312.4	001.6000	0097.5	072.8	38.03	
093.0	001.9000	-0207.3	011.9	312.3	001.6000	0098.1	072.6	38.11	
094.0	001.9000	-0207.4	011.9	312.1	001.6000	0098.4	072.5	38.16	
095.0	001.9000	-0201.5	011.9	312.0	001.6000	0098.5	072.4	38.20	
096.0	001.9000	-0192.6	011.9	311.9	001.6000	0098.5	072.3	38.24	
097.0	001.9000	-0181.0	011.9	311.7	001.6000	0098.3	072.1	38.26	
098.0	001.9000	-0182.2	011.9	311.6	001.6000	0098.0	072.0	38.28	
099.0	001.9000	-0190.3	011.9	311.5	001.6000	0098.2	071.9	38.32	
100.0	001.9000	-0187.2	011.9	311.3	001.6000	0098.2	071.8	38.35	
101.0	001.9000	-0175.4	011.9	311.2	001.6000	0098.2	071.7	38.38	
102.0	001.9000	-0163.9	011.9	311.0	001.6000	0098.0	071.6	38.40	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
103.0	001.9000	-0155.5	011.9	310.9	001.6000	0097.6	071.5	38.41
104.0	001.9000	-0149.1	011.9	310.7	001.6000	0097.0	071.4	38.40
105.0	001.9000	-0143.2	011.9	310.6	001.6000	0096.6	071.3	38.40
106.0	001.9000	-0140.0	011.9	310.4	001.6000	0096.1	071.2	38.40
107.0	001.9000	-0134.7	011.9	310.3	001.6000	0095.5	071.2	38.39
108.0	001.9000	-0140.0	011.9	310.1	001.6000	0094.7	071.1	38.37
109.0	001.9000	-0136.7	011.9	310.0	001.6000	0094.0	071.0	38.35
110.0	001.9000	-0130.4	011.9	309.8	001.6000	0093.4	070.9	38.34
111.0	001.9000	-0116.0	011.9	309.7	001.6000	0093.0	070.9	38.33
112.0	001.9000	-0110.0	011.9	309.5	001.6000	0092.8	070.8	38.34
113.0	001.9000	-0102.3	011.9	309.3	001.6000	0092.6	070.7	38.34
114.0	001.9000	-0096.7	011.9	309.2	001.6000	0092.5	070.7	38.35
115.0	001.9000	-0087.6	011.9	309.0	001.6000	0092.3	070.6	38.36
116.0	001.9000	-0082.4	011.9	308.9	001.6000	0092.0	070.6	38.35
117.0	001.9000	-0079.5	011.9	308.7	001.6000	0091.9	070.5	38.36
118.0	001.9000	-0076.3	011.9	308.5	001.6000	0092.1	070.5	38.38
119.0	001.9000	-0072.7	011.9	308.4	001.6000	0092.2	070.5	38.40
120.0	001.9000	-0069.5	011.9	308.2	001.6000	0092.4	070.4	38.42
121.0	001.9000	-0066.8	011.9	308.0	001.6000	0092.3	070.4	38.42
122.0	001.9000	-0065.1	011.9	307.9	001.6000	0092.6	070.4	38.44
123.0	001.9000	-0064.1	011.9	307.7	001.6000	0092.5	070.4	38.45
124.0	001.9000	-0066.3	011.9	307.5	001.6000	0091.9	070.4	38.41
125.0	001.9000	-0062.5	011.9	307.4	001.6000	0091.0	070.4	38.36
126.0	001.9000	-0055.6	011.9	307.2	001.6000	0090.0	070.3	38.31
127.0	001.9000	-0052.1	011.9	307.0	001.6000	0089.6	070.3	38.28
128.0	001.9000	-0048.1	011.9	306.8	001.6000	0090.2	070.4	38.32
129.0	001.9000	-0044.9	011.9	306.7	001.6000	0091.2	070.4	38.37
130.0	001.9000	-0042.6	011.9	306.5	001.6000	0091.8	070.4	38.41
131.0	001.9000	-0039.7	011.9	306.3	001.6000	0092.5	070.4	38.44
132.0	001.9000	-0036.5	011.9	306.2	001.6000	0092.9	070.4	38.46
133.0	001.9000	-0033.4	011.9	306.0	001.6000	0092.6	070.4	38.44
134.0	001.9000	-0030.4	011.9	305.8	001.6000	0091.9	070.5	38.38
135.0	001.9000	-0027.5	011.9	305.7	001.6000	0091.3	070.5	38.34
136.0	001.9000	-0024.2	011.9	305.5	001.6000	0091.0	070.5	38.31
137.0	001.9000	-0021.6	011.9	305.3	001.6000	0090.8	070.6	38.29
138.0	001.9000	-0018.3	011.9	305.2	001.6000	0090.8	070.6	38.28
139.0	001.9000	-0014.5	011.9	305.0	001.6000	0091.1	070.7	38.28
140.0	001.9000	-0010.6	011.9	304.9	001.6000	0091.8	070.7	38.30
141.0	001.9000	-0007.1	011.9	304.7	001.6000	0092.7	070.8	38.34
142.0	001.9000	-0001.9	011.9	304.5	001.6000	0093.4	070.8	38.36
143.0	001.9000	0003.5	011.9	304.4	001.6000	0094.0	070.9	38.38
144.0	001.9000	0008.9	011.9	304.2	001.6000	0094.7	071.0	38.39
145.0	001.9000	0014.6	011.9	304.1	001.6000	0095.1	071.0	38.40
146.0	001.9000	0019.9	011.9	303.9	001.6000	0095.5	071.1	38.40
147.0	001.9000	0025.5	011.9	303.8	001.6000	0096.2	071.2	38.42
148.0	001.9000	0031.2	012.1	303.5	001.6000	0097.3	071.1	38.51
149.0	001.9000	0036.3	012.9	303.1	001.6000	0100.0	070.5	38.85
150.0	001.9000	0040.5	013.6	302.7	001.6000	0102.1	069.9	39.12
151.0	001.9000	0044.1	014.2	302.2	001.6000	0102.1	069.5	39.24
152.0	001.9000	0047.5	014.8	301.8	001.6000	0102.0	069.2	39.35
153.0	001.9000	0050.7	015.3	301.4	001.6000	0103.8	068.8	39.54

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)		Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
154.0	001.9000	0053.0	015.7		301.0	001.6000	0105.7	068.7	39.71
155.0	001.9000	0054.7	016.0		300.7	001.6000	0107.4	068.6	39.83
156.0	001.9000	0055.9	016.2		300.4	001.6000	0108.2	068.6	39.87
157.0	001.9000	0056.6	016.3		300.2	001.6000	0108.6	068.6	39.87
158.0	001.9000	0057.0	016.3		300.0	001.6000	0109.4	068.8	39.88
159.0	001.9000	0057.4	016.4		299.7	001.6000	0110.7	068.9	39.91
160.0	001.9000	0057.8	016.5		299.5	001.6000	0112.1	069.0	39.95
161.0	001.9000	0058.2	016.5		299.3	001.6000	0113.1	069.2	39.95
162.0	001.9000	0058.4	016.6		299.1	001.6000	0113.9	069.3	39.94
163.0	001.9000	0058.6	016.6		298.9	001.6000	0114.6	069.5	39.93
164.0	001.9000	0058.9	016.6		298.7	001.6000	0115.3	069.7	39.91
165.0	001.9000	0059.2	016.7		298.6	001.6000	0115.9	069.9	39.89
166.0	001.9000	0059.6	016.8		298.4	001.6000	0116.9	070.1	39.89
167.0	001.9000	0060.0	016.8		298.2	001.6000	0117.9	070.2	39.89
168.0	001.9000	0060.4	016.9		298.0	001.6000	0119.0	070.4	39.88
169.0	001.9000	0060.7	016.9		297.8	001.6000	0119.7	070.6	39.86
170.0	001.9000	0060.9	016.9		297.6	001.6000	0120.3	070.8	39.83
171.0	001.9000	0061.0	016.9		297.5	001.6000	0120.9	071.1	39.78
172.0	001.9000	0061.1	017.0		297.3	001.6000	0121.5	071.3	39.75
173.0	001.9000	0061.1	017.0		297.2	001.6000	0122.0	071.6	39.70
174.0	001.9000	0061.1	017.0		297.1	001.6000	0122.5	071.8	39.65
175.0	001.9000	0061.4	017.0		296.9	001.6000	0123.1	072.0	39.60
176.0	001.9000	0061.4	017.0		296.8	001.6000	0123.5	072.3	39.55
177.0	001.9000	0061.4	017.0		296.7	001.6000	0123.7	072.5	39.48
178.0	001.9000	0061.5	017.0		296.6	001.6000	0124.0	072.8	39.42
179.0	001.9000	0061.1	017.0		296.5	001.6000	0124.2	073.1	39.34
180.0	001.9000	0059.7	016.8		296.5	001.6000	0124.1	073.4	39.23
181.0	001.9000	0057.5	016.4		296.7	001.6000	0123.8	073.8	39.09
182.0	001.9000	0054.8	016.0		296.9	001.6000	0123.2	074.3	38.93
183.0	001.9000	0052.2	015.5		297.1	001.6000	0122.4	074.7	38.76
184.0	001.9000	0048.6	014.9		297.4	001.6000	0121.0	075.2	38.55
185.0	001.9000	0044.5	014.2		297.8	001.6000	0119.5	075.7	38.33
186.0	001.9000	0041.7	013.8		298.1	001.6000	0118.3	076.1	38.14

06-09-2017

Terrain Data: NED 03 SEC

FMOver Analysis

NEW BNPED20071022BGV

KRUX.C

Channel = 218A

Max ERP = 1.6 kW

RCAMSL = 1407 m

N. Lat. 31 50 21.0

W. Lng. 106 02 57.3

Protected

60 dBu

Channel = 218A

Max ERP = 1.9 kW

RCAMSL = 1235 m

N. Lat. 32 16 58.5

W. Lng. 106 44 49.7

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
247.0	001.6000	0154.6	025.4	144.3	001.9000	0010.7	072.9	34.18	
248.0	001.6000	0153.3	025.4	144.2	001.9000	0009.8	072.5	34.25	
249.0	001.6000	0153.0	025.3	144.0	001.9000	0009.2	072.1	34.33	
250.0	001.6000	0153.0	025.3	144.0	001.9000	0008.7	071.7	34.40	
251.0	001.6000	0152.4	025.3	143.8	001.9000	0007.9	071.2	34.48	
252.0	001.6000	0152.5	025.3	143.7	001.9000	0007.3	070.8	34.55	
253.0	001.6000	0153.2	025.3	143.6	001.9000	0006.9	070.4	34.63	
254.0	001.6000	0154.0	025.4	143.6	001.9000	0006.5	070.0	34.71	
255.0	001.6000	0155.0	025.5	143.5	001.9000	0006.1	069.5	34.79	
256.0	001.6000	0156.0	025.6	143.4	001.9000	0005.7	069.1	34.87	
257.0	001.6000	0156.2	025.6	143.3	001.9000	0005.0	068.7	34.94	
258.0	001.6000	0156.6	025.6	143.2	001.9000	0004.3	068.2	35.02	
259.0	001.6000	0156.8	025.6	143.0	001.9000	0003.6	067.8	35.09	
260.0	001.6000	0156.5	025.6	142.8	001.9000	0002.6	067.4	35.17	
261.0	001.6000	0155.8	025.5	142.6	001.9000	0001.4	067.1	35.23	
262.0	001.6000	0155.2	025.5	142.4	001.9000	0000.2	066.7	35.30	
263.0	001.6000	0154.4	025.4	142.2	001.9000	-0001.1	066.3	35.37	
264.0	001.6000	0154.1	025.4	141.9	001.9000	-0002.2	066.0	35.43	
265.0	001.6000	0153.2	025.3	141.7	001.9000	-0003.6	065.6	35.50	
266.0	001.6000	0152.0	025.3	141.4	001.9000	-0005.1	065.3	35.56	
267.0	001.6000	0150.6	025.2	141.1	001.9000	-0006.6	065.0	35.61	
268.0	001.6000	0149.1	025.0	140.8	001.9000	-0007.9	064.7	35.67	
269.0	001.6000	0146.0	024.8	140.4	001.9000	-0009.1	064.5	35.71	
270.0	001.6000	0142.2	024.5	140.0	001.9000	-0010.7	064.4	35.73	
271.0	001.6000	0140.1	024.4	139.6	001.9000	-0012.3	064.1	35.78	
272.0	001.6000	0137.7	024.2	139.2	001.9000	-0013.7	063.9	35.81	
273.0	001.6000	0136.7	024.1	138.9	001.9000	-0014.7	063.7	35.86	
274.0	001.6000	0135.4	024.0	138.6	001.9000	-0015.9	063.5	35.91	
275.0	001.6000	0134.3	023.9	138.3	001.9000	-0017.3	063.2	35.95	
276.0	001.6000	0133.6	023.9	138.0	001.9000	-0018.4	063.0	36.00	
277.0	001.6000	0134.3	023.9	137.7	001.9000	-0019.1	062.7	36.06	
278.0	001.6000	0134.9	024.0	137.5	001.9000	-0019.9	062.4	36.12	
279.0	001.6000	0134.9	024.0	137.2	001.9000	-0021.0	062.1	36.17	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
280.0	001.6000	0134.6	023.9	136.8	001.9000	-0022.2	061.9	36.22
281.0	001.6000	0133.2	023.8	136.5	001.9000	-0023.0	061.7	36.25
282.0	001.6000	0133.7	023.9	136.2	001.9000	-0023.7	061.4	36.31
283.0	001.6000	0134.4	023.9	135.9	001.9000	-0024.7	061.1	36.36
284.0	001.6000	0134.3	023.9	135.5	001.9000	-0025.5	060.9	36.41
285.0	001.6000	0134.1	023.9	135.2	001.9000	-0026.8	060.7	36.45
286.0	001.6000	0134.8	024.0	134.9	001.9000	-0028.0	060.5	36.50
287.0	001.6000	0134.0	023.9	134.5	001.9000	-0029.2	060.3	36.53
288.0	001.6000	0133.2	023.8	134.1	001.9000	-0030.1	060.2	36.56
289.0	001.6000	0134.0	023.9	133.8	001.9000	-0030.9	059.9	36.61
290.0	001.6000	0134.0	023.9	133.4	001.9000	-0032.2	059.8	36.64
291.0	001.6000	0133.9	023.9	133.1	001.9000	-0033.2	059.6	36.67
292.0	001.6000	0132.4	023.8	132.6	001.9000	-0034.1	059.6	36.68
293.0	001.6000	0129.8	023.6	132.2	001.9000	-0035.7	059.6	36.67
294.0	001.6000	0127.1	023.4	131.8	001.9000	-0037.3	059.7	36.66
295.0	001.6000	0125.7	023.3	131.4	001.9000	-0038.7	059.7	36.66
296.0	001.6000	0124.8	023.2	131.0	001.9000	-0039.7	059.6	36.67
297.0	001.6000	0122.8	023.0	130.6	001.9000	-0041.0	059.7	36.66
298.0	001.6000	0118.9	022.7	130.1	001.9000	-0042.3	059.9	36.62
299.0	001.6000	0114.4	022.3	129.7	001.9000	-0043.2	060.2	36.56
300.0	001.6000	0109.3	021.9	129.2	001.9000	-0044.2	060.6	36.48
301.0	001.6000	0106.0	021.5	128.8	001.9000	-0045.4	060.8	36.43
302.0	001.6000	0102.0	021.1	128.4	001.9000	-0046.7	061.2	36.36
303.0	001.6000	0100.7	021.0	128.1	001.9000	-0047.8	061.3	36.33
304.0	001.6000	0095.1	020.4	127.7	001.9000	-0049.4	061.9	36.22
305.0	001.6000	0091.2	019.9	127.4	001.9000	-0050.6	062.3	36.14
306.0	001.6000	0092.6	020.1	127.0	001.9000	-0052.0	062.1	36.17
307.0	001.6000	0089.6	019.8	126.7	001.9000	-0052.9	062.4	36.10
308.0	001.6000	0092.3	020.1	126.4	001.9000	-0053.8	062.1	36.16
309.0	001.6000	0092.3	020.1	126.1	001.9000	-0055.3	062.2	36.16
310.0	001.6000	0094.1	020.3	125.7	001.9000	-0057.0	062.0	36.20
311.0	001.6000	0097.9	020.7	125.4	001.9000	-0059.4	061.6	36.28
312.0	001.6000	0098.5	020.8	125.0	001.9000	-0062.2	061.5	36.28
313.0	001.6000	0092.1	020.0	124.8	001.9000	-0064.1	062.3	36.13
314.0	001.6000	0088.5	019.6	124.5	001.9000	-0065.6	062.8	36.04
315.0	001.6000	0087.6	019.5	124.2	001.9000	-0065.8	062.9	36.01
316.0	001.6000	0084.8	019.2	124.0	001.9000	-0066.3	063.3	35.93
317.0	001.6000	0083.0	019.0	123.7	001.9000	-0065.4	063.6	35.88
318.0	001.6000	0083.6	019.1	123.4	001.9000	-0063.7	063.6	35.88
319.0	001.6000	0085.8	019.3	123.1	001.9000	-0063.9	063.4	35.91
320.0	001.6000	0086.6	019.4	122.8	001.9000	-0064.4	063.4	35.91
321.0	001.6000	0083.4	019.0	122.6	001.9000	-0064.7	063.9	35.82
322.0	001.6000	0081.1	018.7	122.4	001.9000	-0064.9	064.3	35.75
323.0	001.6000	0074.9	018.0	122.4	001.9000	-0064.9	065.1	35.59
324.0	001.6000	0069.6	017.3	122.3	001.9000	-0065.0	065.9	35.45
325.0	001.6000	0068.7	017.2	122.1	001.9000	-0065.1	066.1	35.41
326.0	001.6000	0069.6	017.3	121.8	001.9000	-0065.3	066.1	35.41
327.0	001.6000	0070.8	017.4	121.5	001.9000	-0065.7	066.1	35.41
328.0	001.6000	0073.4	017.8	121.2	001.9000	-0066.6	065.9	35.44
329.0	001.6000	0072.5	017.7	121.0	001.9000	-0066.9	066.2	35.40
330.0	001.6000	0075.3	018.0	120.6	001.9000	-0067.9	066.0	35.43

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)		Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
331.0	001.6000	0079.2	018.5		120.1	001.9000	-0069.1	065.7	35.48
332.0	001.6000	0084.2	019.1		119.6	001.9000	-0070.7	065.4	35.54
333.0	001.6000	0084.7	019.2		119.3	001.9000	-0071.6	065.5	35.52
334.0	001.6000	0085.1	019.2		119.1	001.9000	-0072.5	065.6	35.49
335.0	001.6000	0084.9	019.2		118.8	001.9000	-0073.3	065.9	35.45
336.0	001.6000	0084.4	019.1		118.6	001.9000	-0074.1	066.1	35.41
337.0	001.6000	0083.6	019.1		118.5	001.9000	-0074.8	066.4	35.36
338.0	001.6000	0084.3	019.1		118.2	001.9000	-0075.7	066.5	35.33
339.0	001.6000	0085.4	019.3		117.9	001.9000	-0076.6	066.6	35.31
340.0	001.6000	0085.9	019.3		117.6	001.9000	-0077.4	066.8	35.28
341.0	001.6000	0085.2	019.2		117.5	001.9000	-0077.9	067.1	35.22
342.0	001.6000	0080.8	018.7		117.6	001.9000	-0077.5	067.7	35.11
343.0	001.6000	0059.6	015.9		119.0	001.9000	-0072.7	069.9	34.72
344.0	001.6000	0050.9	014.7		119.6	001.9000	-0070.8	071.0	34.52
345.0	001.6000	0060.2	016.0		118.6	001.9000	-0074.1	070.3	34.66
346.0	001.6000	0068.0	017.1		117.8	001.9000	-0076.8	069.8	34.75
347.0	001.6000	0074.7	017.9		117.1	001.9000	-0078.9	069.4	34.81
348.0	001.6000	0073.6	017.8		117.1	001.9000	-0079.2	069.7	34.75
349.0	001.6000	0071.9	017.6		117.0	001.9000	-0079.2	070.1	34.68
350.0	001.6000	0070.3	017.4		117.0	001.9000	-0079.3	070.5	34.61
351.0	001.6000	0068.9	017.2		117.0	001.9000	-0079.4	070.8	34.55
352.0	001.6000	0066.5	016.9		117.1	001.9000	-0079.2	071.3	34.48
353.0	001.6000	0064.1	016.6		117.1	001.9000	-0078.9	071.7	34.40
354.0	001.6000	0061.5	016.2		117.2	001.9000	-0078.5	072.1	34.32
355.0	001.6000	0058.6	015.8		117.4	001.9000	-0078.2	072.6	34.24
356.0	001.6000	0055.7	015.4		117.5	001.9000	-0077.7	073.0	34.16
357.0	001.6000	0052.7	014.9		117.7	001.9000	-0077.1	073.5	34.07
358.0	001.6000	0049.1	014.4		118.0	001.9000	-0076.3	074.0	33.98
359.0	001.6000	0044.8	013.7		118.4	001.9000	-0075.2	074.5	33.88
000.0	001.6000	0038.5	012.7		118.9	001.9000	-0072.9	075.2	33.76
001.0	001.6000	0025.1	011.4		119.7	001.9000	-0070.2	076.1	33.60
002.0	001.6000	0010.8	011.4		119.7	001.9000	-0070.5	076.2	33.57
003.0	001.6000	0002.9	011.4		119.6	001.9000	-0070.7	076.4	33.54
004.0	001.6000	-0001.5	011.4		119.5	001.9000	-0070.9	076.6	33.50
005.0	001.6000	-0007.8	011.4		119.5	001.9000	-0071.1	076.8	33.47
006.0	001.6000	-0016.2	011.4		119.4	001.9000	-0071.3	077.0	33.44

Contour-to-Contour Mao KRUX vs KLAG
Bd Of Regents, New Mexico St. Univ.

FMCommander Single Allocation Study - 06-09-2017 - NED 03 SEC
KRUX.C's Overlaps (In= 0.95 km, Out= 26.94 km)

KRUX.C CH 218 A DA

Lat= 32 16 58.5, Lng= 106 44 49.7

1.9 kW -41.5 m HAAT, 1235 m COR

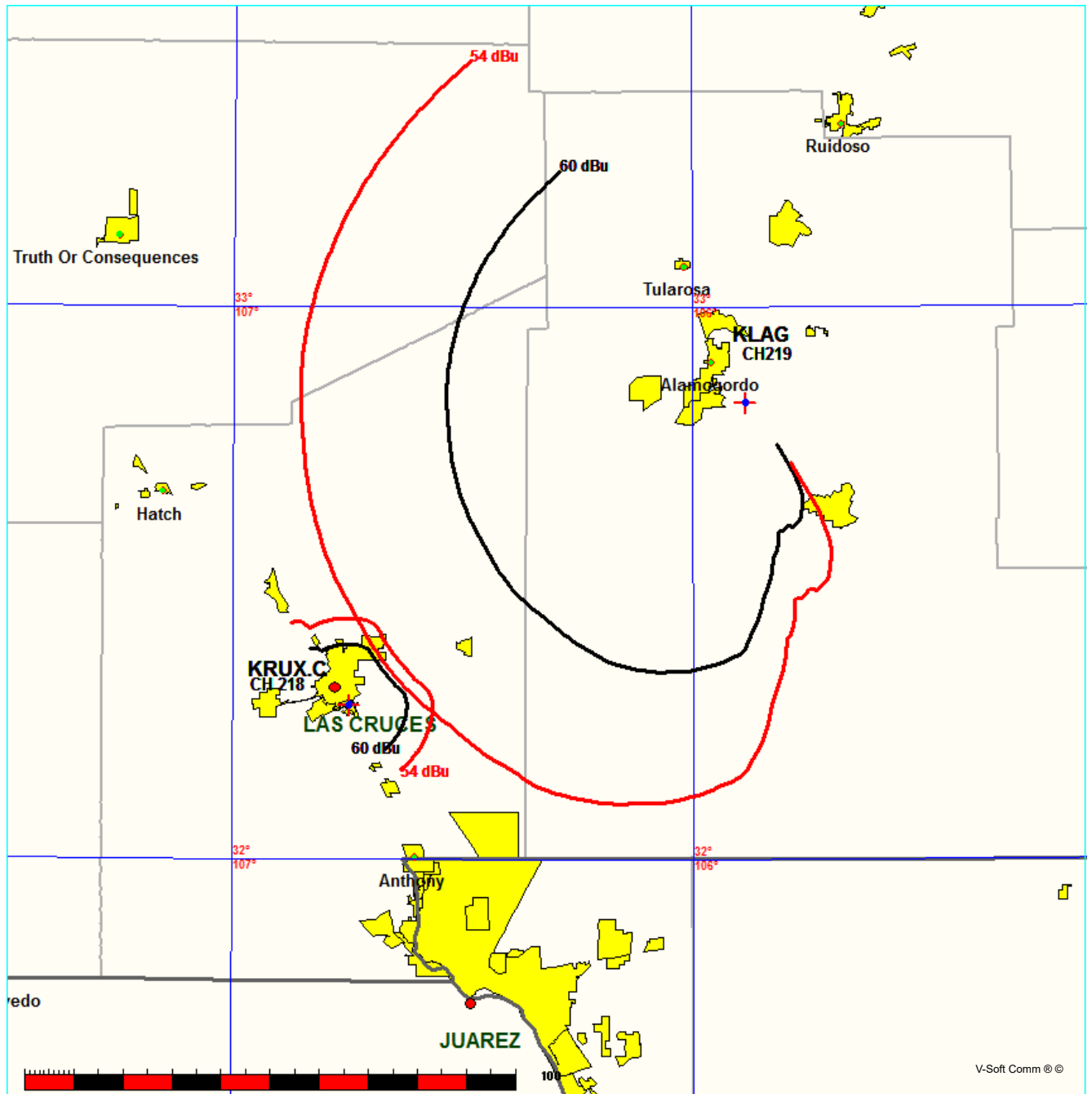
Prot.= 60 dBu, Intef.= 54 dBu

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



06-09-2017

Terrain Data: NED 03 SEC

FMOver Analysis

KRUX.C

KLAG BMLED20131107AGU

Channel = 218A

Max ERP = 1.9 kW

RCAMSL = 1235 m

N. Lat. 32 16 58.5

W. Lng. 106 44 49.7

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	001.9000	-0057.6	011.9	239.4	001.4000	1092.3	095.6	52.44	
354.0	001.9000	-0061.0	011.9	239.3	001.4000	1092.4	095.4	52.49	
355.0	001.9000	-0061.8	011.9	239.3	001.4000	1092.5	095.2	52.55	
356.0	001.9000	-0060.3	011.9	239.2	001.4000	1092.6	095.0	52.60	
357.0	001.9000	-0060.7	011.9	239.2	001.4000	1092.7	094.9	52.66	
358.0	001.9000	-0062.9	011.9	239.1	001.4000	1092.8	094.7	52.71	
359.0	001.9000	-0064.7	011.9	239.0	001.4000	1093.0	094.5	52.77	
000.0	001.9000	-0065.6	011.9	239.0	001.4000	1093.1	094.3	52.82	
001.0	001.9000	-0066.0	011.9	238.9	001.4000	1093.3	094.1	52.87	
002.0	001.9000	-0066.9	011.9	238.8	001.4000	1093.5	094.0	52.93	
003.0	001.9000	-0066.7	011.9	238.8	001.4000	1093.7	093.8	52.98	
004.0	001.9000	-0066.8	011.9	238.7	001.4000	1093.9	093.6	53.03	
005.0	001.9000	-0067.3	011.9	238.6	001.4000	1094.1	093.5	53.08	
006.0	001.9000	-0067.4	011.9	238.6	001.4000	1094.3	093.3	53.13	
007.0	001.9000	-0067.7	011.9	238.5	001.4000	1094.5	093.1	53.18	
008.0	001.9000	-0068.4	011.9	238.4	001.4000	1094.8	093.0	53.23	
009.0	001.9000	-0069.4	011.9	238.3	001.4000	1095.0	092.8	53.27	
010.0	001.9000	-0071.0	011.9	238.2	001.4000	1095.3	092.7	53.32	
011.0	001.8810	-0072.4	011.8	238.1	001.4000	1095.7	092.5	53.36	
012.0	001.8584	-0073.7	011.8	238.0	001.4000	1096.0	092.4	53.40	
013.0	001.8397	-0075.7	011.8	237.9	001.4000	1096.3	092.3	53.44	
014.0	001.8210	-0077.3	011.7	237.8	001.4000	1096.6	092.2	53.48	
015.0	001.8025	-0079.4	011.7	237.7	001.4000	1096.9	092.0	53.51	
016.0	001.7803	-0080.9	011.7	237.6	001.4000	1097.1	091.9	53.55	
017.0	001.7620	-0082.8	011.6	237.5	001.4000	1097.4	091.8	53.58	
018.0	001.7438	-0085.0	011.6	237.4	001.4000	1097.7	091.7	53.61	
019.0	001.7220	-0087.1	011.6	237.3	001.4000	1097.9	091.6	53.65	
020.0	001.7039	-0088.9	011.6	237.2	001.4000	1098.1	091.5	53.68	
021.0	001.6362	-0091.2	011.4	237.0	001.4000	1098.4	091.5	53.69	
022.0	001.5665	-0092.9	011.3	236.9	001.4000	1098.6	091.5	53.69	
023.0	001.5016	-0094.3	011.2	236.7	001.4000	1098.8	091.5	53.70	
024.0	001.4348	-0096.2	011.1	236.6	001.4000	1098.9	091.5	53.70	
025.0	001.3728	-0097.9	011.0	236.4	001.4000	1099.0	091.5	53.70	
026.0	001.3089	-0099.7	010.8	236.3	001.4000	1098.9	091.5	53.70	
027.0	001.2466	-0102.5	010.7	236.2	001.4000	1098.9	091.5	53.69	
028.0	001.1888	-0104.4	010.6	236.0	001.4000	1098.8	091.5	53.68	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
029.0	001.1294	-0106.6	010.5	235.9	001.4000	1098.6	091.5	53.67
030.0	001.0745	-0108.2	010.3	235.7	001.4000	1098.3	091.6	53.66
031.0	001.0489	-0110.2	010.3	235.6	001.4000	1098.0	091.6	53.66
032.0	001.0264	-0111.9	010.2	235.5	001.4000	1097.7	091.5	53.67
033.0	001.0014	-0114.4	010.2	235.4	001.4000	1097.5	091.5	53.67
034.0	000.9795	-0117.7	010.1	235.3	001.4000	1097.4	091.5	53.67
035.0	000.9551	-0119.7	010.0	235.2	001.4000	1097.3	091.5	53.67
036.0	000.9337	-0121.6	010.0	235.0	001.4000	1097.2	091.5	53.67
037.0	000.9098	-0124.1	009.9	234.9	001.4000	1097.1	091.5	53.67
038.0	000.8889	-0126.0	009.9	234.8	001.4000	1097.0	091.5	53.67
039.0	000.8657	-0127.9	009.8	234.7	001.4000	1096.9	091.5	53.66
040.0	000.8453	-0130.6	009.7	234.6	001.4000	1096.8	091.5	53.66
041.0	000.8377	-0133.0	009.7	234.5	001.4000	1096.8	091.5	53.66
042.0	000.8327	-0135.4	009.7	234.4	001.4000	1096.7	091.5	53.67
043.0	000.8251	-0137.6	009.7	234.3	001.4000	1096.6	091.5	53.67
044.0	000.8176	-0139.1	009.7	234.2	001.4000	1096.5	091.5	53.67
045.0	000.8102	-0141.2	009.6	234.1	001.4000	1096.4	091.5	53.67
046.0	000.8052	-0143.7	009.6	233.9	001.4000	1096.3	091.5	53.67
047.0	000.7978	-0146.6	009.6	233.8	001.4000	1096.2	091.5	53.67
048.0	000.7904	-0148.6	009.6	233.7	001.4000	1096.2	091.5	53.67
049.0	000.7856	-0149.8	009.6	233.6	001.4000	1096.1	091.5	53.67
050.0	000.7782	-0152.5	009.5	233.5	001.4000	1096.1	091.5	53.67
051.0	000.7856	-0156.4	009.6	233.4	001.4000	1096.1	091.5	53.67
052.0	000.7904	-0159.7	009.6	233.3	001.4000	1096.0	091.4	53.68
053.0	000.7978	-0162.7	009.6	233.2	001.4000	1096.0	091.4	53.69
054.0	000.8052	-0166.7	009.6	233.1	001.4000	1095.9	091.4	53.69
055.0	000.8102	-0170.6	009.6	233.0	001.4000	1095.8	091.4	53.69
056.0	000.8176	-0174.9	009.7	232.9	001.4000	1095.8	091.4	53.70
057.0	000.8251	-0179.4	009.7	232.8	001.4000	1095.7	091.4	53.70
058.0	000.8327	-0182.4	009.7	232.7	001.4000	1095.5	091.4	53.70
059.0	000.8377	-0186.3	009.7	232.6	001.4000	1095.4	091.4	53.70
060.0	000.8453	-0189.1	009.7	232.5	001.4000	1095.2	091.4	53.70
061.0	000.8631	-0192.6	009.8	232.4	001.4000	1095.0	091.3	53.70
062.0	000.8811	-0194.8	009.8	232.2	001.4000	1094.7	091.3	53.71
063.0	000.9020	-0197.6	009.9	232.1	001.4000	1094.4	091.3	53.71
064.0	000.9204	-0199.7	010.0	232.0	001.4000	1094.1	091.3	53.71
065.0	000.9390	-0203.6	010.0	231.9	001.4000	1093.7	091.3	53.71
066.0	000.9578	-0206.3	010.1	231.8	001.4000	1093.4	091.3	53.71
067.0	000.9768	-0209.6	010.1	231.7	001.4000	1093.0	091.3	53.71
068.0	000.9987	-0211.3	010.2	231.6	001.4000	1092.6	091.3	53.70
069.0	001.0181	-0215.0	010.2	231.4	001.4000	1092.1	091.3	53.70
070.0	001.0376	-0217.7	010.3	231.3	001.4000	1091.5	091.3	53.69
071.0	001.0917	-0227.2	010.4	231.2	001.4000	1090.9	091.2	53.70
072.0	001.1471	-0233.3	010.5	231.1	001.4000	1090.2	091.2	53.71
073.0	001.2039	-0232.0	010.6	230.9	001.4000	1089.5	091.1	53.72
074.0	001.2620	-0232.7	010.8	230.8	001.4000	1088.9	091.1	53.72
075.0	001.3247	-0239.6	010.9	230.6	001.4000	1088.1	091.0	53.73
076.0	001.3857	-0249.8	011.0	230.5	001.4000	1087.4	091.0	53.73
077.0	001.4480	-0264.2	011.1	230.4	001.4000	1086.6	091.0	53.73
078.0	001.5118	-0254.4	011.2	230.2	001.4000	1085.9	091.0	53.73
079.0	001.5768	-0245.7	011.3	230.1	001.4000	1085.3	091.0	53.72

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)		Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
080.0	001.6433	-0246.1	011.5		229.9	001.4000	1084.7	091.0	53.71
081.0	001.6681	-0240.7	011.5		229.8	001.4000	1084.2	091.1	53.69
082.0	001.6932	-0241.5	011.5		229.7	001.4000	1083.7	091.1	53.67
083.0	001.7184	-0247.5	011.6		229.6	001.4000	1083.2	091.2	53.64
084.0	001.7438	-0248.3	011.6		229.5	001.4000	1082.7	091.3	53.61
085.0	001.7693	-0239.8	011.7		229.3	001.4000	1082.3	091.4	53.58
086.0	001.7951	-0235.7	011.7		229.2	001.4000	1081.7	091.5	53.55
087.0	001.8210	-0224.9	011.7		229.1	001.4000	1081.2	091.6	53.52
088.0	001.8472	-0211.9	011.8		229.0	001.4000	1080.6	091.7	53.49
089.0	001.8735	-0205.3	011.8		228.9	001.4000	1080.1	091.8	53.45
090.0	001.9000	-0203.1	011.9		228.8	001.4000	1079.6	091.9	53.42
091.0	001.9000	-0202.0	011.9		228.7	001.4000	1079.1	092.0	53.38
092.0	001.9000	-0203.9	011.9		228.6	001.4000	1078.7	092.1	53.33
093.0	001.9000	-0207.3	011.9		228.5	001.4000	1078.3	092.3	53.29
094.0	001.9000	-0207.4	011.9		228.4	001.4000	1077.9	092.4	53.24
095.0	001.9000	-0201.5	011.9		228.3	001.4000	1077.5	092.6	53.19
096.0	001.9000	-0192.6	011.9		228.2	001.4000	1077.1	092.7	53.14
097.0	001.9000	-0181.0	011.9		228.1	001.4000	1076.6	092.9	53.09
098.0	001.9000	-0182.2	011.9		228.0	001.4000	1076.1	093.1	53.04
099.0	001.9000	-0190.3	011.9		228.0	001.4000	1075.7	093.2	52.99
100.0	001.9000	-0187.2	011.9		227.9	001.4000	1075.2	093.4	52.94
101.0	001.9000	-0175.4	011.9		227.8	001.4000	1074.8	093.5	52.89
102.0	001.9000	-0163.9	011.9		227.7	001.4000	1074.3	093.7	52.84
103.0	001.9000	-0155.5	011.9		227.7	001.4000	1073.8	093.9	52.78
104.0	001.9000	-0149.1	011.9		227.6	001.4000	1073.4	094.1	52.73
105.0	001.9000	-0143.2	011.9		227.5	001.4000	1072.9	094.2	52.67
106.0	001.9000	-0140.0	011.9		227.5	001.4000	1072.4	094.4	52.62
107.0	001.9000	-0134.7	011.9		227.4	001.4000	1072.0	094.6	52.56
108.0	001.9000	-0140.0	011.9		227.3	001.4000	1071.6	094.8	52.50
109.0	001.9000	-0136.7	011.9		227.3	001.4000	1071.2	094.9	52.45
110.0	001.9000	-0130.4	011.9		227.2	001.4000	1070.8	095.1	52.39
111.0	001.9000	-0116.0	011.9		227.2	001.4000	1070.3	095.3	52.33
112.0	001.9000	-0110.0	011.9		227.1	001.4000	1069.9	095.5	52.27

06-09-2017

Terrain Data: NED 03 SEC

FMOver Analysis

KLAG BMLED20131107AGU

KRUX.C

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 = 1.9 kW

RCAMSL = 1235 m

N. Lat. 32 16 58.5

W. Lng. 106 44 49.7

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	0373.3	037.6	074.4	001.2852	-0234.5	088.6	29.40	
174.0	001.4000	0405.8	038.9	075.2	001.3363	-0241.0	087.7	29.74	
175.0	001.4000	0438.6	040.4	076.1	001.3893	-0250.3	086.8	30.10	
176.0	001.4000	0485.3	042.5	077.4	001.4736	-0264.5	085.8	30.56	
177.0	001.4000	0527.7	044.6	078.7	001.5582	-0246.4	084.8	31.02	
178.0	001.4000	0562.5	046.3	079.8	001.6284	-0245.4	083.8	31.42	
179.0	001.4000	0606.1	048.1	080.9	001.6658	-0241.3	082.7	31.73	
180.0	001.4000	0649.2	049.7	081.9	001.6914	-0241.4	081.6	32.01	
181.0	001.4000	0678.7	050.7	082.6	001.7075	-0244.2	080.6	32.26	
182.0	001.4000	0695.4	051.3	082.9	001.7152	-0246.2	079.7	32.47	
183.0	001.4000	0707.4	051.6	083.1	001.7198	-0248.0	078.7	32.66	
184.0	001.4000	0722.4	052.1	083.3	001.7257	-0249.3	077.8	32.87	
185.0	001.4000	0740.6	052.7	083.6	001.7331	-0249.2	076.8	33.07	
186.0	001.4000	0753.0	053.1	083.7	001.7367	-0248.8	075.8	33.27	
187.0	001.4000	0767.5	053.5	083.9	001.7411	-0248.5	074.8	33.46	
188.0	001.4000	0780.7	053.9	084.0	001.7442	-0248.3	073.8	33.65	
189.0	001.4000	0798.6	054.4	084.2	001.7494	-0247.8	072.7	33.85	
190.0	001.4000	0813.4	054.8	084.3	001.7524	-0247.0	071.7	34.04	
191.0	001.4000	0828.9	055.2	084.4	001.7552	-0245.9	070.7	34.24	
192.0	001.4000	0842.5	055.6	084.5	001.7564	-0245.6	069.6	34.42	
193.0	001.4000	0853.3	055.8	084.5	001.7556	-0245.8	068.6	34.60	
194.0	001.4000	0862.2	056.0	084.4	001.7533	-0246.6	067.6	34.78	
195.0	001.4000	0875.6	056.4	084.3	001.7526	-0246.9	066.6	34.96	
196.0	001.4000	0888.8	056.7	084.3	001.7511	-0247.4	065.6	35.15	
197.0	001.4000	0905.4	057.0	084.3	001.7503	-0247.6	064.5	35.35	
198.0	001.4000	0922.7	057.4	084.2	001.7490	-0247.9	063.5	35.54	
199.0	001.4000	0934.3	057.6	084.0	001.7445	-0248.2	062.5	35.73	
200.0	001.4000	0947.0	057.9	083.8	001.7399	-0248.5	061.4	35.92	
201.0	001.4000	0957.4	058.1	083.6	001.7336	-0249.2	060.4	36.11	
202.0	001.4000	0968.3	058.3	083.3	001.7269	-0249.3	059.4	36.29	
203.0	001.4000	0979.6	058.5	083.0	001.7195	-0247.9	058.4	36.48	
204.0	001.4000	0990.5	058.7	082.7	001.7113	-0245.2	057.5	36.67	
205.0	001.4000	1001.9	058.9	082.4	001.7025	-0242.8	056.5	36.86	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
206.0	001.4000	1010.3	059.1	081.9	001.6915	-0241.4	055.5	37.03
207.0	001.4000	1018.5	059.3	081.5	001.6797	-0240.7	054.6	37.20
208.0	001.4000	1025.8	059.4	080.9	001.6666	-0241.1	053.6	37.37
209.0	001.4000	1029.7	059.5	080.3	001.6514	-0244.3	052.8	37.52
210.0	001.4000	1030.0	059.5	079.6	001.6174	-0244.9	052.0	37.60
211.0	001.4000	1028.0	059.4	078.8	001.5655	-0245.7	051.2	37.63
212.0	001.4000	1026.8	059.4	078.0	001.5129	-0254.1	050.5	37.64
213.0	001.4000	1026.7	059.4	077.2	001.4598	-0265.5	049.7	37.64
214.0	001.4000	1028.3	059.4	076.3	001.4067	-0254.3	049.0	37.64
215.0	001.4000	1031.9	059.5	075.5	001.3539	-0244.1	048.2	37.64
216.0	001.4000	1035.4	059.6	074.6	001.2982	-0236.3	047.5	37.61
217.0	001.4000	1038.0	059.6	073.6	001.2399	-0231.3	046.8	37.57
218.0	001.4000	1039.4	059.7	072.6	001.1813	-0234.7	046.2	37.51
219.0	001.4000	1039.2	059.7	071.5	001.1206	-0230.1	045.6	37.43
220.0	001.4000	1038.8	059.6	070.4	001.0593	-0221.7	045.1	37.32
221.0	001.4000	1039.7	059.7	069.3	001.0231	-0215.4	044.6	37.31
222.0	001.4000	1042.9	059.7	068.1	001.0006	-0211.5	044.0	37.35
223.0	001.4000	1045.3	059.8	066.9	000.9748	-0209.4	043.5	37.37
224.0	001.4000	1048.1	059.8	065.7	000.9512	-0204.9	043.1	37.40
225.0	001.4000	1053.3	059.9	064.4	000.9277	-0200.6	042.6	37.42
226.0	001.4000	1061.3	060.1	063.1	000.9041	-0198.0	042.1	37.45
227.0	001.4000	1069.0	060.2	061.8	000.8774	-0194.5	041.7	37.44
228.0	001.4000	1075.9	060.3	060.4	000.8529	-0190.9	041.3	37.43
229.0	001.4000	1080.7	060.4	059.0	000.8378	-0186.4	041.0	37.44
230.0	001.4000	1085.0	060.5	057.6	000.8295	-0181.1	040.8	37.48
231.0	001.4000	1089.9	060.6	056.1	000.8185	-0175.4	040.6	37.48
232.0	001.4000	1094.0	060.6	054.6	000.8083	-0169.3	040.4	37.48
233.0	001.4000	1095.8	060.7	053.1	000.7988	-0163.3	040.3	37.45
234.0	001.4000	1096.4	060.7	051.6	000.7886	-0158.3	040.4	37.39
235.0	001.4000	1097.2	060.7	050.1	000.7791	-0153.0	040.4	37.32
236.0	001.4000	1098.7	060.7	048.6	000.7874	-0149.4	040.5	37.34
237.0	001.4000	1098.4	060.7	047.1	000.7968	-0146.9	040.6	37.35
238.0	001.4000	1096.1	060.7	045.7	000.8068	-0142.9	040.9	37.33
239.0	001.4000	1093.1	060.6	044.3	000.8157	-0139.7	041.2	37.29
240.0	001.4000	1091.7	060.6	042.9	000.8262	-0137.5	041.5	37.25
241.0	001.4000	1091.4	060.6	041.5	000.8353	-0134.2	041.8	37.20
242.0	001.4000	1092.6	060.6	040.1	000.8444	-0130.8	042.1	37.15
243.0	001.4000	1094.3	060.7	038.8	000.8710	-0127.5	042.5	37.17
244.0	001.4000	1098.1	060.7	037.4	000.9005	-0124.8	042.9	37.21
245.0	001.4000	1100.6	060.8	036.2	000.9297	-0121.9	043.3	37.22
246.0	001.4000	1103.5	060.8	034.9	000.9570	-0119.5	043.8	37.21
247.0	001.4000	1107.6	060.9	033.7	000.9861	-0116.8	044.3	37.21
248.0	001.4000	1109.7	060.9	032.5	001.0130	-0113.4	044.9	37.18
249.0	001.4000	1110.4	060.9	031.4	001.0390	-0111.2	045.5	37.13
250.0	001.4000	1110.2	060.9	030.4	001.0643	-0109.0	046.2	37.07
251.0	001.4000	1110.4	060.9	029.4	001.1077	-0107.4	046.8	37.08
252.0	001.4000	1109.8	060.9	028.4	001.1623	-0105.5	047.6	37.12
253.0	001.4000	1109.1	060.9	027.5	001.2153	-0103.3	048.3	37.15
254.0	001.4000	1106.9	060.9	026.7	001.2651	-0101.5	049.1	37.16
255.0	001.4000	1105.7	060.9	025.9	001.3157	-0099.5	049.9	37.15
256.0	001.4000	1105.0	060.8	025.1	001.3651	-0098.1	050.7	37.14

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)		Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
257.0	001.4000	1105.6	060.8		024.4	001.4120	-0096.7	051.5	37.10
258.0	001.4000	1106.5	060.9		023.6	001.4582	-0095.6	052.4	37.06
259.0	001.4000	1106.6	060.9		023.0	001.5029	-0094.2	053.2	37.01
260.0	001.4000	1105.7	060.9		022.4	001.5426	-0093.3	054.1	36.93
261.0	001.4000	1103.8	060.8		021.8	001.5800	-0092.6	055.1	36.83
262.0	001.4000	1101.1	060.8		021.3	001.6158	-0091.7	056.0	36.73
263.0	001.4000	1098.5	060.7		020.8	001.6491	-0090.8	056.9	36.62
264.0	001.4000	1095.9	060.7		020.4	001.6794	-0089.8	057.9	36.49
265.0	001.4000	1094.5	060.7		019.9	001.7053	-0088.7	058.9	36.36
266.0	001.4000	1094.1	060.6		019.5	001.7129	-0088.0	059.8	36.18
267.0	001.4000	1095.0	060.7		019.1	001.7203	-0087.3	060.8	36.00
268.0	001.4000	1096.4	060.7		018.7	001.7284	-0086.6	061.8	35.83
269.0	001.4000	1097.7	060.7		018.3	001.7363	-0085.9	062.8	35.65
270.0	001.4000	1098.9	060.7		018.0	001.7435	-0085.0	063.8	35.48
271.0	001.4000	1100.2	060.8		017.7	001.7492	-0084.3	064.8	35.30
272.0	001.4000	1101.6	060.8		017.4	001.7544	-0083.6	065.8	35.13
273.0	001.4000	1102.0	060.8		017.2	001.7589	-0083.0	066.8	34.95
274.0	001.4000	1102.3	060.8		016.9	001.7630	-0082.7	067.8	34.77
275.0	001.4000	1102.4	060.8		016.7	001.7666	-0082.5	068.8	34.59
276.0	001.4000	1100.9	060.8		016.6	001.7695	-0082.2	069.9	34.41
277.0	001.4000	1098.8	060.7		016.5	001.7719	-0081.9	070.9	34.23
278.0	001.4000	1097.0	060.7		016.3	001.7739	-0081.6	072.0	34.05
279.0	001.4000	1095.4	060.7		016.3	001.7757	-0081.3	073.0	33.86
280.0	001.4000	1094.3	060.7		016.2	001.7774	-0081.2	074.1	33.67
281.0	001.4000	1093.0	060.6		016.1	001.7786	-0081.0	075.1	33.48
282.0	001.4000	1090.8	060.6		016.1	001.7794	-0081.0	076.2	33.29
283.0	001.4000	1088.9	060.6		016.0	001.7799	-0080.9	077.3	33.09
284.0	001.4000	1086.5	060.5		016.0	001.7801	-0080.9	078.3	32.89
285.0	001.4000	1084.8	060.5		016.0	001.7802	-0080.9	079.4	32.69
286.0	001.4000	1082.8	060.4		016.0	001.7799	-0080.9	080.4	32.48
287.0	001.4000	1080.1	060.4		016.1	001.7793	-0081.0	081.5	32.26
288.0	001.4000	1076.7	060.3		016.1	001.7783	-0081.1	082.5	32.05
289.0	001.4000	1073.3	060.3		016.2	001.7771	-0081.2	083.6	31.83
290.0	001.4000	1069.2	060.2		016.3	001.7755	-0081.4	084.6	31.61
291.0	001.4000	1066.6	060.2		016.3	001.7741	-0081.6	085.7	31.40
292.0	001.4000	1065.3	060.1		016.4	001.7728	-0081.7	086.7	31.18