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Proposed ERP 1.2 kW - Contour-to-contour
Bd Of Regents, New Mexico St. Univ.
CH# 218A - 91.5 MHz, Pwr= 1.2 kW DA, HAAT= -36.3 M, COR= 1235 M
Average Protected F(50-50)= 10.62 km
Standard Directional

REFERENCE
32 16 58.5 N.
106 44 49.7 W.

DISPLAY DATES
DATA 05-17-16
SEARCH 05-17-16

CH CITY	CALL	TYPE ANT STATE	AZI <--	DI ST FILE #	LAT LNG	PWR(KW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap	*OUT* in km)
218A Las Cruces	KRUZ	CP DCX NM	297.4 117.4	0.30 BPED20141126APH	32 17 03.0 106 45 00.0	3.000 -59	53.3 1215	13.2 Bd Of Regents,	-63.6*	-50.8*
218A Las Cruces	KRUZ	APP DCX NM	0.0 0.0	0.00 BMPED20160429ABH	32 16 58.5 106 44 49.7	2.900 -40	52.6 1235	13.1 Bd Of Regents,	-63.2*	-51.0*
218A Las Cruces	KRUZ	LIC_CN NM	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,	-46.0*	-47.8*
218A Hori zon Ci ty	1429619	APP DCX TX	127.4 307.8	81.04 BNPED20071022BGV	31 50 18.0 106 03 56.0	1.180 43	69.2 1414	21.5 Open Arms Communi ty	-0.4<*	20.5
219C2 Al amogordo	KLAK	LIC_CN NM	52.8 233.2	101.02 BMLED20131107AGU	32 49 47.0 105 53 10.0	1.400 512	90.1 2401	60.7 Educational Medi a Foundati	2.0	28.4
220D Las Cruces	K220CF	LIC_VN NM	354.7 174.7	13.60 BLFT19980209TE	32 24 17.0 106 45 38.0	0.006 169	0.2 1487	8.0 Pensacol a Christi an Colleg	2.8	3.8
218A Hori zon Ci ty	1699035	APP DCX TX	131.5 311.8	76.92 BNPED20071019AHM	31 49 22.0 106 08 15.0	2.300 18	56.9 1305	16.3 Christi an Ministri es Of El	7.1	22.6
218A Hori zon Ci ty	1398948	APP DCX TX	131.6 312.0	76.80 BNPED20071019AHM	31 49 21.0 106 08 22.0	2.300 17	56.5 1303	16.1 Christi an Ministri es Of El	7.3	22.7
220C3 Hatch	K1HM-FM	CP DCX NM	326.6 146.5	54.68 BMPED20120203ABV	32 41 35.7 107 04 06.9	1.100 331	2.2 1673	37.8 I hr Educati onal Broadcasti	39.7	15.0
219D El Paso, Etc.	K219BX	LIC_VN TX	154.8 335.0	57.40 BLFT19930927TK	31 48 55.0 106 29 20.0	0.010 522	18.9 1790	12.0 Family Stati ons, Inc.	23.7	22.6
271C El Paso	KPRR«	LIC_EN TX	155.1 335.3	59.93 BLH19860813KB	31 47 34.0 106 28 47.0	100.000 363	7.2 1583	34.8 Cc Li censes, LI c	28.5R	31.4M
216A El Paso	KVER	LIC_CN TX	155.1 335.3	60.05 BMLED20160217ABA	31 47 33.0 106 28 48.0	0.510 340	1.6 1560	20.6 World Radi o Network, Inc.	43.4	33.1
216C2 Truth Or Consequenc	KLCF	CP DCX NM	329.7 149.4	88.51 BPED20150318AAR	32 58 10.0 107 13 33.0	1.200 780	2.3 2294	46.5 Educati onal Medi a Foundati	73.5	39.9

Terrain database is NGDC 30 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
<*** Keeps some of existing CP's contour overlap.

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.

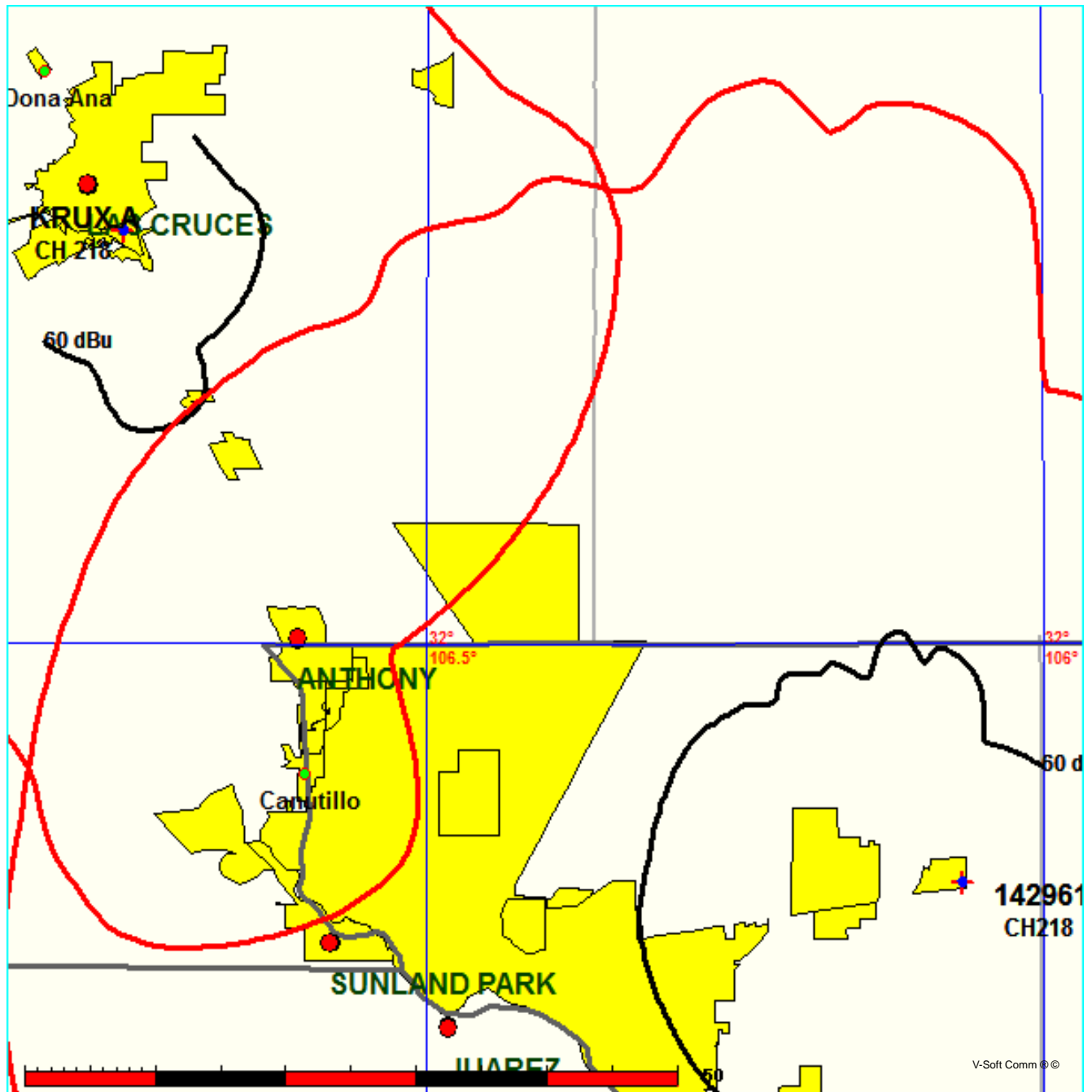
Translator relationships with LPTV/Translators are calculated using the 62 dBu protected and the F(50-10) interference contour, as defined in section 74.1205 of the Rules.

Proposed ERP 1.2 kW - keeps some overlap - 1429619
Bd Of Regents, New Mexico St. Univ.

FMCommander Single Allocation Study - 05-17-2016 - NGDC 30 SEC
KRUX.A's Overlaps (In= -0.45 km, Out= 20.46 km)

KRUX.A CH 218 A DA
Lat= 32 16 58.5, Lng= 106 44 49.7
1.2 kW -36.3 m HAAT, 1235 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



05-17-2016

Terrain Data: NGDC 30 SEC

FMOver Analysis

KRUX.A

1429619 BNPED20071022BGV

Channel = 218A
 Max ERP = 1.2 kW
 RCAMSL = 1235 m
 N. Lat. 32 16 58.5
 W. Lng. 106 44 49.7
 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	000.6169	-0200.9	009.0	313.6	001.1800	0103.8	077.0	35.83	
068.0	000.6308	-0205.1	009.0	313.6	001.1800	0103.8	076.8	35.88	
069.0	000.6430	-0210.3	009.1	313.6	001.1800	0103.8	076.7	35.93	
070.0	000.6553	-0216.2	009.1	313.5	001.1800	0103.8	076.5	35.97	
071.0	000.6895	-0221.5	009.3	313.6	001.1800	0103.8	076.3	36.03	
072.0	000.7245	-0225.0	009.4	313.6	001.1800	0103.8	076.1	36.09	
073.0	000.7603	-0228.4	009.5	313.6	001.1800	0103.8	075.9	36.14	
074.0	000.7971	-0232.7	009.6	313.6	001.1800	0103.8	075.7	36.20	
075.0	000.8367	-0237.3	009.7	313.6	001.1800	0103.8	075.5	36.26	
076.0	000.8752	-0240.9	009.8	313.6	001.1800	0103.8	075.3	36.32	
077.0	000.9146	-0241.7	009.9	313.6	001.1800	0103.8	075.1	36.38	
078.0	000.9548	-0242.2	010.0	313.6	001.1800	0103.8	074.9	36.44	
079.0	000.9959	-0242.4	010.2	313.6	001.1800	0103.8	074.7	36.50	
080.0	001.0379	-0242.9	010.3	313.6	001.1800	0103.8	074.5	36.56	
081.0	001.0536	-0242.8	010.3	313.5	001.1800	0103.8	074.3	36.61	
082.0	001.0694	-0241.9	010.3	313.5	001.1800	0103.8	074.2	36.65	
083.0	001.0853	-0238.8	010.4	313.4	001.1800	0103.9	074.0	36.70	
084.0	001.1013	-0235.6	010.4	313.3	001.1800	0104.0	073.8	36.76	
085.0	001.1175	-0232.3	010.4	313.2	001.1800	0104.0	073.7	36.81	
086.0	001.1337	-0229.0	010.5	313.2	001.1800	0104.1	073.5	36.86	
087.0	001.1501	-0222.5	010.5	313.1	001.1800	0104.3	073.4	36.91	
088.0	001.1666	-0213.2	010.6	313.0	001.1800	0104.4	073.2	36.96	
089.0	001.1833	-0203.7	010.6	312.9	001.1800	0104.6	073.0	37.02	
090.0	001.2000	-0196.2	010.6	312.8	001.1800	0104.7	072.9	37.07	
091.0	001.2000	-0196.4	010.6	312.7	001.1800	0104.9	072.8	37.12	
092.0	001.2000	-0196.4	010.6	312.6	001.1800	0105.2	072.6	37.17	
093.0	001.2000	-0196.0	010.6	312.5	001.1800	0105.4	072.5	37.21	
094.0	001.2000	-0190.3	010.6	312.4	001.1800	0105.7	072.4	37.26	
095.0	001.2000	-0183.6	010.6	312.3	001.1800	0106.0	072.3	37.31	
096.0	001.2000	-0176.9	010.6	312.2	001.1800	0106.3	072.2	37.36	
097.0	001.2000	-0171.4	010.6	312.0	001.1800	0106.7	072.1	37.42	
098.0	001.2000	-0170.6	010.6	311.9	001.1800	0107.1	072.0	37.47	
099.0	001.2000	-0169.7	010.6	311.8	001.1800	0107.6	071.9	37.52	
100.0	001.2000	-0168.6	010.6	311.7	001.1800	0108.1	071.8	37.58	
101.0	001.2000	-0163.3	010.6	311.5	001.1800	0108.6	071.7	37.63	
102.0	001.2000	-0155.7	010.6	311.4	001.1800	0109.1	071.6	37.69	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
103.0	001.2000	-0147.8	010.6	311.3	001.1800	0109.6	071.5	37.74
104.0	001.2000	-0140.6	010.6	311.2	001.1800	0110.2	071.4	37.80
105.0	001.2000	-0135.4	010.6	311.0	001.1800	0110.7	071.3	37.85
106.0	001.2000	-0131.1	010.6	310.9	001.1800	0111.3	071.3	37.91
107.0	001.2000	-0126.2	010.6	310.7	001.1800	0111.9	071.2	37.96
108.0	001.2000	-0122.3	010.6	310.6	001.1800	0112.5	071.1	38.02
109.0	001.2000	-0119.5	010.6	310.5	001.1800	0113.1	071.0	38.07
110.0	001.2000	-0116.9	010.6	310.3	001.1800	0113.8	071.0	38.12
111.0	001.2000	-0111.4	010.6	310.2	001.1800	0114.4	070.9	38.17
112.0	001.2000	-0103.1	010.6	310.0	001.1800	0115.0	070.9	38.22
113.0	001.2000	-0095.3	010.6	309.9	001.1800	0115.6	070.8	38.27
114.0	001.2000	-0089.1	010.6	309.8	001.1800	0116.1	070.7	38.32
115.0	001.2000	-0084.8	010.6	309.6	001.1800	0116.8	070.7	38.36
116.0	001.2000	-0079.8	010.6	309.5	001.1800	0117.4	070.7	38.41
117.0	001.2000	-0074.8	010.6	309.3	001.1800	0118.0	070.6	38.45
118.0	001.2000	-0070.3	010.6	309.2	001.1800	0118.6	070.6	38.49
119.0	001.2000	-0066.7	010.6	309.0	001.1800	0119.1	070.5	38.53
120.0	001.2000	-0063.5	010.6	308.9	001.1800	0119.7	070.5	38.57
121.0	001.2000	-0060.7	010.6	308.7	001.1800	0120.2	070.5	38.60
122.0	001.2000	-0059.0	010.6	308.6	001.1800	0120.7	070.5	38.64
123.0	001.2000	-0057.8	010.6	308.4	001.1800	0121.2	070.5	38.67
124.0	001.2000	-0056.5	010.6	308.3	001.1800	0121.7	070.4	38.70
125.0	001.2000	-0054.2	010.6	308.1	001.1800	0122.2	070.4	38.73
126.0	001.2000	-0050.7	010.6	308.0	001.1800	0122.7	070.4	38.75
127.0	001.2000	-0046.3	010.6	307.8	001.1800	0123.1	070.4	38.78
128.0	001.2000	-0041.9	010.6	307.7	001.1800	0123.5	070.4	38.80
129.0	001.2000	-0037.6	010.6	307.5	001.1800	0123.9	070.4	38.82
130.0	001.2000	-0033.8	010.6	307.4	001.1800	0124.3	070.4	38.84
131.0	001.2000	-0030.8	010.6	307.2	001.1800	0124.7	070.4	38.85
132.0	001.2000	-0028.1	010.6	307.1	001.1800	0125.1	070.5	38.87
133.0	001.2000	-0025.3	010.6	306.9	001.1800	0125.5	070.5	38.88
134.0	001.2000	-0022.1	010.6	306.8	001.1800	0125.8	070.5	38.89
135.0	001.2000	-0018.8	010.6	306.6	001.1800	0126.2	070.5	38.90
136.0	001.2000	-0015.6	010.6	306.5	001.1800	0126.5	070.6	38.91
137.0	001.2000	-0012.3	010.6	306.3	001.1800	0126.8	070.6	38.92
138.0	001.2000	-0008.4	010.6	306.2	001.1800	0127.2	070.6	38.92
139.0	001.2000	-0003.9	010.6	306.0	001.1800	0127.5	070.7	38.93
140.0	001.2000	0001.0	010.6	305.9	001.1800	0127.8	070.7	38.93
141.0	001.2000	0005.7	010.6	305.7	001.1800	0128.1	070.8	38.93
142.0	001.2000	0009.7	010.6	305.6	001.1800	0128.5	070.8	38.93
143.0	001.2000	0013.5	010.6	305.5	001.1800	0128.8	070.9	38.93
144.0	001.2000	0016.9	010.6	305.3	001.1800	0129.2	070.9	38.93
145.0	001.2000	0020.3	010.6	305.2	001.1800	0129.5	071.0	38.93
146.0	001.2000	0023.7	010.6	305.0	001.1800	0129.7	071.1	38.92
147.0	001.2000	0027.3	010.6	304.9	001.1800	0130.0	071.1	38.92
148.0	001.2000	0031.1	010.8	304.7	001.1800	0130.4	071.0	38.96
149.0	001.2000	0035.3	011.4	304.4	001.1800	0131.3	070.6	39.16
150.0	001.2000	0039.6	012.1	304.0	001.1800	0132.2	070.1	39.36
151.0	001.2000	0043.7	012.6	303.6	001.1800	0133.1	069.6	39.54
152.0	001.2000	0047.2	013.1	303.2	001.1800	0134.1	069.3	39.70
153.0	001.2000	0050.3	013.6	302.9	001.1800	0135.0	069.0	39.83

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
154.0	001.2000	0053.2	014.0	302.5	001.1800	0135.9	068.8	39.94
155.0	001.2000	0055.6	014.3	302.2	001.1800	0136.8	068.7	40.03* 0.09
156.0	001.2000	0057.6	014.5	301.9	001.1800	0137.5	068.6	40.09* 0.27
157.0	001.2000	0059.0	014.7	301.7	001.1800	0138.2	068.6	40.12* 0.38
158.0	001.2000	0060.2	014.8	301.4	001.1800	0138.8	068.7	40.14* 0.44
159.0	001.2000	0061.1	014.9	301.2	001.1800	0139.3	068.8	40.14* 0.45
160.0	001.2000	0061.9	015.0	301.0	001.1800	0139.8	068.8	40.14* 0.43
161.0	001.2000	0062.7	015.1	300.8	001.1800	0140.2	069.0	40.13* 0.40
162.0	001.2000	0063.4	015.2	300.6	001.1800	0140.7	069.1	40.11* 0.36
163.0	001.2000	0064.0	015.3	300.4	001.1800	0141.1	069.2	40.09* 0.29
164.0	001.2000	0064.3	015.3	300.2	001.1800	0141.5	069.4	40.06* 0.20
165.0	001.2000	0064.5	015.3	300.0	001.1800	0141.8	069.5	40.03* 0.08
166.0	001.2000	0064.7	015.4	299.9	001.1800	0142.1	069.7	39.99
167.0	001.2000	0064.9	015.4	299.7	001.1800	0142.5	069.9	39.95
168.0	001.2000	0065.2	015.4	299.5	001.1800	0142.8	070.1	39.91
169.0	001.2000	0065.4	015.4	299.4	001.1800	0143.1	070.2	39.86
170.0	001.2000	0065.6	015.5	299.2	001.1800	0143.4	070.4	39.81
171.0	001.2000	0065.6	015.5	299.1	001.1800	0143.6	070.7	39.76
172.0	001.2000	0065.5	015.4	299.0	001.1800	0143.8	070.9	39.70
173.0	001.2000	0065.3	015.4	298.8	001.1800	0144.0	071.1	39.63
174.0	001.2000	0065.1	015.4	298.7	001.1800	0144.2	071.3	39.57
175.0	001.2000	0065.0	015.4	298.6	001.1800	0144.4	071.6	39.51
176.0	001.2000	0064.5	015.3	298.5	001.1800	0144.5	071.8	39.43
177.0	001.2000	0063.9	015.3	298.5	001.1800	0144.6	072.1	39.35
178.0	001.2000	0063.2	015.2	298.4	001.1800	0144.6	072.4	39.27
179.0	001.2000	0061.9	015.0	298.4	001.1800	0144.6	072.7	39.17
180.0	001.2000	0060.6	014.9	298.4	001.1800	0144.6	073.0	39.08
181.0	001.2000	0059.2	014.7	298.5	001.1800	0144.6	073.3	38.98
182.0	001.2000	0056.6	014.4	298.6	001.1800	0144.4	073.6	38.86
183.0	001.2000	0053.8	014.1	298.8	001.1800	0144.2	074.0	38.73
184.0	001.2000	0051.1	013.7	298.9	001.1800	0143.9	074.4	38.60
185.0	001.2000	0049.2	013.4	299.0	001.1800	0143.7	074.7	38.49
186.0	001.2000	0047.1	013.1	299.2	001.1800	0143.5	075.0	38.37

05-17-2016

Terrain Data: NGDC 30 SEC

FMOver Analysis

1429619 BNPED20071022BGV

KRUX.A

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 = 1.2 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)
248.0	001.1800	0172.0	024.9	144.9	001.2000	0019.8	071.8	32.38	
249.0	001.1800	0172.3	025.0	144.8	001.2000	0019.6	071.4	32.46	
250.0	001.1800	0172.7	025.0	144.7	001.2000	0019.4	070.9	32.54	
251.0	001.1800	0173.0	025.0	144.7	001.2000	0019.1	070.5	32.61	
252.0	001.1800	0173.3	025.0	144.6	001.2000	0018.8	070.1	32.69	
253.0	001.1800	0173.6	025.0	144.5	001.2000	0018.5	069.7	32.77	
254.0	001.1800	0173.7	025.1	144.4	001.2000	0018.1	069.2	32.84	
255.0	001.1800	0173.7	025.1	144.2	001.2000	0017.7	068.8	32.92	
256.0	001.1800	0173.6	025.0	144.1	001.2000	0017.3	068.4	32.99	
257.0	001.1800	0173.5	025.0	144.0	001.2000	0016.8	068.0	33.06	
258.0	001.1800	0173.5	025.0	143.8	001.2000	0016.3	067.6	33.14	
259.0	001.1800	0173.4	025.0	143.7	001.2000	0015.8	067.2	33.21	
260.0	001.1800	0173.3	025.0	143.5	001.2000	0015.2	066.8	33.28	
261.0	001.1800	0173.0	025.0	143.3	001.2000	0014.6	066.5	33.35	
262.0	001.1800	0172.8	025.0	143.1	001.2000	0013.9	066.1	33.42	
263.0	001.1800	0172.4	025.0	142.9	001.2000	0013.2	065.7	33.49	
264.0	001.1800	0171.6	024.9	142.7	001.2000	0012.4	065.4	33.55	
265.0	001.1800	0170.7	024.9	142.5	001.2000	0011.5	065.0	33.62	
266.0	001.1800	0169.6	024.8	142.2	001.2000	0010.5	064.7	33.68	
267.0	001.1800	0168.4	024.7	141.9	001.2000	0009.4	064.4	33.74	
268.0	001.1800	0167.1	024.6	141.6	001.2000	0008.3	064.1	33.79	
269.0	001.1800	0165.8	024.5	141.3	001.2000	0007.1	063.8	33.85	
270.0	001.1800	0164.5	024.5	141.0	001.2000	0005.9	063.5	33.90	
271.0	001.1800	0163.1	024.4	140.7	001.2000	0004.5	063.2	33.96	
272.0	001.1800	0161.7	024.3	140.4	001.2000	0003.0	063.0	34.01	
273.0	001.1800	0160.5	024.2	140.1	001.2000	0001.6	062.7	34.06	
274.0	001.1800	0159.5	024.1	139.8	001.2000	0000.0	062.4	34.11	
275.0	001.1800	0158.8	024.1	139.5	001.2000	-0001.5	062.2	34.16	
276.0	001.1800	0158.4	024.0	139.2	001.2000	-0002.9	061.9	34.21	
277.0	001.1800	0158.0	024.0	138.9	001.2000	-0004.4	061.6	34.27	
278.0	001.1800	0157.5	024.0	138.6	001.2000	-0005.8	061.4	34.32	
279.0	001.1800	0157.1	024.0	138.3	001.2000	-0007.3	061.1	34.37	
280.0	001.1800	0156.6	023.9	137.9	001.2000	-0008.7	060.9	34.42	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
281.0	001.1800	0156.3	023.9	137.6	001.2000	-0010.0	060.7	34.46
282.0	001.1800	0155.9	023.9	137.3	001.2000	-0011.2	060.4	34.51
283.0	001.1800	0155.5	023.8	137.0	001.2000	-0012.4	060.2	34.55
284.0	001.1800	0155.1	023.8	136.6	001.2000	-0013.6	060.0	34.60
285.0	001.1800	0154.7	023.8	136.3	001.2000	-0014.8	059.8	34.64
286.0	001.1800	0154.1	023.7	135.9	001.2000	-0015.9	059.6	34.67
287.0	001.1800	0153.5	023.7	135.5	001.2000	-0017.0	059.5	34.71
288.0	001.1800	0153.1	023.7	135.2	001.2000	-0018.3	059.3	34.74
289.0	001.1800	0152.8	023.7	134.8	001.2000	-0019.5	059.1	34.78
290.0	001.1800	0152.5	023.6	134.4	001.2000	-0020.7	059.0	34.81
291.0	001.1800	0152.1	023.6	134.0	001.2000	-0022.0	058.8	34.84
292.0	001.1800	0151.6	023.6	133.7	001.2000	-0023.2	058.7	34.87
293.0	001.1800	0151.1	023.5	133.3	001.2000	-0024.5	058.6	34.89
294.0	001.1800	0150.4	023.5	132.9	001.2000	-0025.6	058.5	34.91
295.0	001.1800	0149.4	023.4	132.5	001.2000	-0026.8	058.4	34.92
296.0	001.1800	0148.2	023.3	132.1	001.2000	-0027.9	058.4	34.93
297.0	001.1800	0146.8	023.2	131.7	001.2000	-0029.0	058.4	34.93
298.0	001.1800	0145.3	023.1	131.3	001.2000	-0030.1	058.4	34.93
299.0	001.1800	0143.8	023.0	130.8	001.2000	-0031.2	058.4	34.93
300.0	001.1800	0141.9	022.9	130.4	001.2000	-0032.4	058.5	34.92
301.0	001.1800	0139.8	022.7	130.0	001.2000	-0033.7	058.5	34.90
302.0	001.1800	0137.4	022.5	129.6	001.2000	-0035.2	058.7	34.88
303.0	001.1800	0134.7	022.3	129.2	001.2000	-0036.8	058.8	34.85
304.0	001.1800	0132.2	022.2	128.8	001.2000	-0038.4	059.0	34.81
305.0	001.1800	0129.8	022.0	128.4	001.2000	-0040.0	059.1	34.78
306.0	001.1800	0127.6	021.8	128.1	001.2000	-0041.7	059.2	34.75
307.0	001.1800	0125.3	021.6	127.7	001.2000	-0043.3	059.4	34.72
308.0	001.1800	0122.6	021.4	127.3	001.2000	-0044.9	059.6	34.68
309.0	001.1800	0119.2	021.2	127.0	001.2000	-0046.5	059.9	34.63
310.0	001.1800	0115.2	020.8	126.6	001.2000	-0047.9	060.2	34.55
311.0	001.1800	0110.8	020.5	126.3	001.2000	-0049.3	060.6	34.47
312.0	001.1800	0106.9	020.1	126.0	001.2000	-0050.6	061.0	34.39
313.0	001.1800	0104.4	019.9	125.7	001.2000	-0051.8	061.3	34.34
314.0	001.1800	0104.1	019.8	125.4	001.2000	-0053.0	061.4	34.32
315.0	001.1800	0106.0	020.0	125.0	001.2000	-0054.1	061.2	34.35
316.0	001.1800	0109.1	020.3	124.7	001.2000	-0055.1	061.0	34.39
317.0	001.1800	0111.7	020.5	124.3	001.2000	-0056.0	060.9	34.43
318.0	001.1800	0112.9	020.6	123.9	001.2000	-0056.6	060.8	34.43
319.0	001.1800	0112.4	020.6	123.6	001.2000	-0057.1	061.0	34.40
320.0	001.1800	0110.6	020.4	123.3	001.2000	-0057.4	061.2	34.35
321.0	001.1800	0108.1	020.2	123.1	001.2000	-0057.7	061.5	34.29
322.0	001.1800	0105.0	019.9	122.9	001.2000	-0058.0	061.9	34.21
323.0	001.1800	0101.9	019.6	122.7	001.2000	-0058.2	062.3	34.13
324.0	001.1800	0099.3	019.3	122.5	001.2000	-0058.4	062.7	34.06
325.0	001.1800	0097.7	019.2	122.2	001.2000	-0058.7	063.0	34.00
326.0	001.1800	0097.5	019.1	122.0	001.2000	-0059.0	063.1	33.97
327.0	001.1800	0098.2	019.2	121.7	001.2000	-0059.5	063.2	33.96
328.0	001.1800	0098.7	019.3	121.4	001.2000	-0060.0	063.3	33.94
329.0	001.1800	0098.0	019.2	121.1	001.2000	-0060.4	063.5	33.90
330.0	001.1800	0095.5	018.9	121.0	001.2000	-0060.7	063.9	33.82
331.0	001.1800	0091.3	018.5	120.9	001.2000	-0060.8	064.5	33.72

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
332.0	001.1800	0086.6	017.9	120.9	001.2000	-0060.8	065.1	33.60
333.0	001.1800	0082.3	017.4	120.9	001.2000	-0060.8	065.7	33.49
334.0	001.1800	0079.6	017.1	120.8	001.2000	-0061.0	066.1	33.41
335.0	001.1800	0078.9	017.0	120.7	001.2000	-0061.5	066.4	33.37
336.0	001.1800	0080.2	017.2	120.4	001.2000	-0062.3	066.4	33.36
337.0	001.1800	0082.9	017.5	120.0	001.2000	-0063.5	066.3	33.37
338.0	001.1800	0086.3	017.9	119.6	001.2000	-0064.8	066.2	33.40
339.0	001.1800	0090.1	018.3	119.1	001.2000	-0066.2	066.0	33.42
340.0	001.1800	0093.8	018.7	118.7	001.2000	-0067.7	065.9	33.44
341.0	001.1800	0096.8	019.1	118.3	001.2000	-0069.2	065.9	33.45
342.0	001.1800	0098.9	019.3	117.9	001.2000	-0070.5	066.0	33.43
343.0	001.1800	0100.2	019.4	117.6	001.2000	-0071.8	066.1	33.41
344.0	001.1800	0101.0	019.5	117.4	001.2000	-0072.9	066.3	33.37
345.0	001.1800	0101.1	019.5	117.2	001.2000	-0073.9	066.6	33.33
346.0	001.1800	0100.5	019.5	117.0	001.2000	-0074.6	066.9	33.28
347.0	001.1800	0097.8	019.2	117.0	001.2000	-0074.7	067.3	33.20
348.0	001.1800	0091.1	018.4	117.3	001.2000	-0073.3	068.0	33.07
349.0	001.1800	0083.3	017.5	117.7	001.2000	-0071.4	068.8	32.92
350.0	001.1800	0077.2	016.8	118.1	001.2000	-0070.1	069.5	32.79
351.0	001.1800	0077.9	016.9	117.8	001.2000	-0070.9	069.7	32.76
352.0	001.1800	0080.5	017.2	117.5	001.2000	-0072.5	069.7	32.75
353.0	001.1800	0083.2	017.5	117.1	001.2000	-0074.1	069.8	32.74
354.0	001.1800	0084.0	017.6	116.9	001.2000	-0075.1	070.0	32.70
355.0	001.1800	0083.9	017.6	116.8	001.2000	-0075.7	070.3	32.66
356.0	001.1800	0083.5	017.6	116.7	001.2000	-0076.3	070.6	32.60
357.0	001.1800	0082.2	017.4	116.7	001.2000	-0076.3	070.9	32.54
358.0	001.1800	0080.6	017.2	116.7	001.2000	-0076.3	071.3	32.48
359.0	001.1800	0079.2	017.1	116.7	001.2000	-0076.2	071.6	32.42
000.0	001.1800	0077.3	016.8	116.8	001.2000	-0076.0	072.0	32.35
001.0	001.1800	0074.8	016.5	116.9	001.2000	-0075.4	072.4	32.28
002.0	001.1800	0072.4	016.2	117.0	001.2000	-0074.8	072.8	32.21
003.0	001.1800	0069.5	015.9	117.1	001.2000	-0074.0	073.2	32.14
004.0	001.1800	0066.0	015.4	117.4	001.2000	-0073.1	073.6	32.06
005.0	001.1800	0062.5	015.0	117.6	001.2000	-0072.1	074.0	31.99
006.0	001.1800	0056.3	014.3	118.0	001.2000	-0070.3	074.5	31.89
007.0	001.1800	0047.9	013.2	118.7	001.2000	-0067.6	075.1	31.78

Doug Vernier, Telecommunications Consultants
401 Main St., Ste 213, Cedar Falls, IA 50613

KRUX Authorized CP

Bd Of Regents, New Mexico St. Univ.

REFERENCE
32 17 03.0 N.
106 45 00.0 W.

CH# 218A - 91.5 MHz, Pwr= 3 kW DA, HAAT= -55.7 M, COR= 1215 M
Average Protected F(50-50)= 13.22 km
Standard Directional

DISPLAY DATES
DATA 05-17-16
SEARCH 05-17-16

CH CITY	CALL	TYPE ANT STATE	AZI --	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap	*OUT* in km)
218A KRUX Las Cruces	CP DCX NM	0.0 0.0	0.00 BPED20141126APH	32 17 03.0 106 45 00.0	3.000 -59	53.3 1215	13.2 Bd Of Regents,	-66.5*	-66.5*	
218A KRUX Las Cruces	APP DCX NM	117.4 297.4	0.30 BMPED20160429ABH	32 16 58.5 106 44 49.7	2.900 -40	52.6 1235	13.1 Bd Of Regents,	-65.5*	-66.1*	
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,	-48.9*	-63.4*	
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	69.5 1414	21.5 Open Arms Communi ty Of El	-0.8	5.4	
219C2 KLAG Alamogordo	LIC _CX NM	52.9 233.4	101.15 BMLED20131107AGU	32 49 47.0 105 53 10.0	1.400 512	90.0 2401	60.7 Educational Medi a Foundati	0.0	25.5	
220D K220CF Las Cruces	LIC _VN NM	355.8 175.8	13.44 BLFT19980209TE	32 24 17.0 106 45 38.0	0.006 169	0.2 1487	8.1 Pensacola Christian Colleg	0.1	3.6	
218A 1699035 Horizon City	APP DCX TX	131.5 311.8	77.21 BNPED20071019AHM	31 49 22.0 106 08 15.0	2.300 18	56.9 1305	16.3 Christian Ministries Of El	6.9	7.5	
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	56.5 1303	16.1 Christian Ministries Of El	7.1	7.6	
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	14.8	
219D K219BX El Paso, Etc.	LIC _VN TX	154.7 334.8	57.64 BLFT19930927TK	31 48 55.0 106 29 20.0	0.010 522	18.9 1790	12.0 Family Stations, Inc.	23.0	21.9	
218D K218EF Truth Or Consequenc	CP DC_ NM	329.8 149.6	88.26 BPFT20130403AAG	32 58 11.0 107 13 31.0	0.010 792	17.3 2299	2.8 Advance Mini stries Db New	57.9	31.5	
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	7.2 1583	34.8 Cc Li censes, LI c	28.5R	31.7M	
216A KVER El Paso	LIC _CX TX	155.0 335.1	60.29 BMLED20160217ABA	31 47 33.0 106 28 48.0	0.510 340	1.6 1560	20.7 World Radi o Network, Inc.	42.9	33.2	
216C2 KLCF Truth Or Consequenc	CP DCX NM	329.8 149.6	88.26 BPED20150318AAR	32 58 10.0 107 13 33.0	1.200 780	2.3 2294	46.4 Educati onal Medi a Foundati	72.7	39.7	

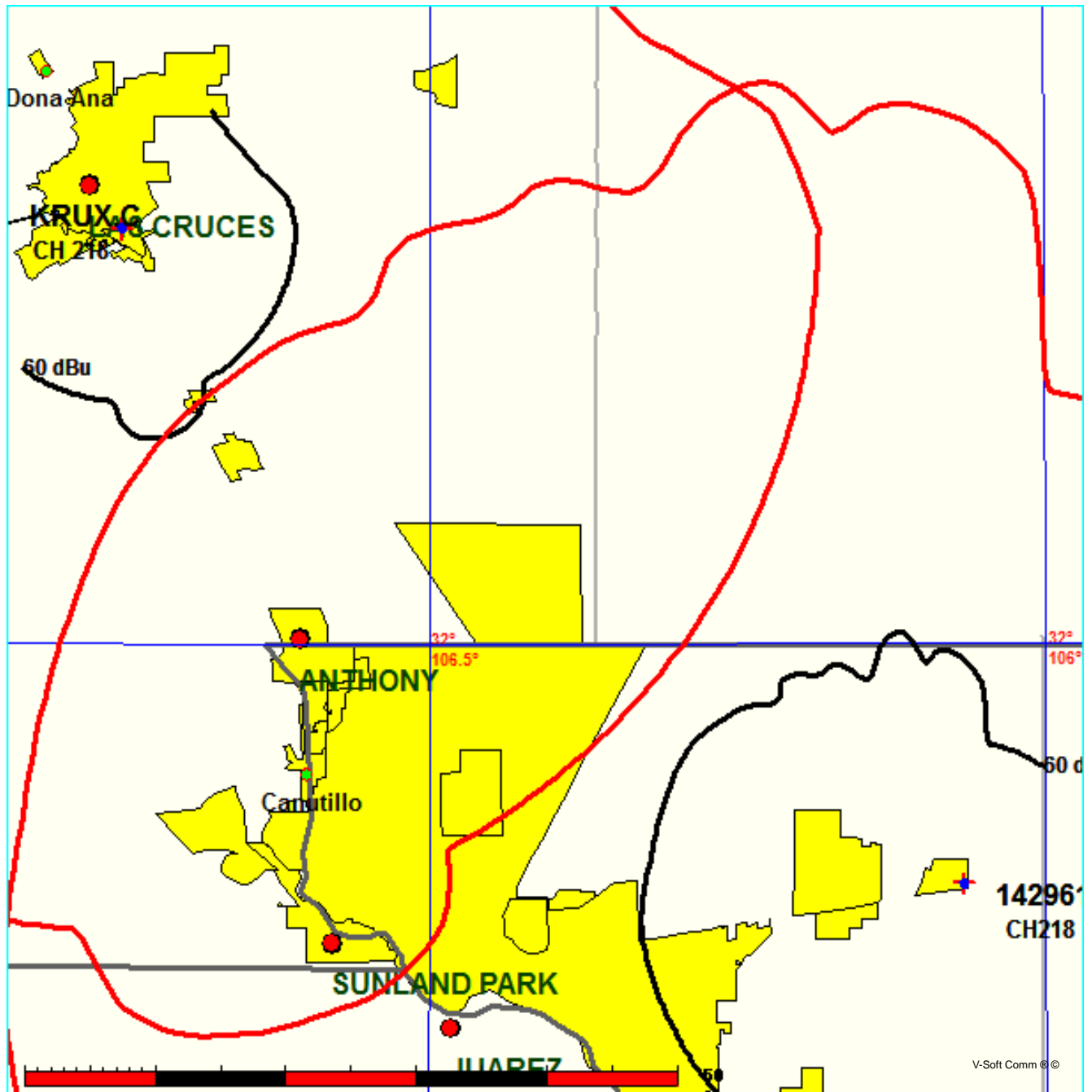
Terrain database is NGDC 30 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference zone= - Zone 2, Co to 3rd adjacent.
All separation margins (if shown) include rounding. Call signs with strikeout need 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

KRUX Authorized CP Existing overlap Horizon City 1429619
Bd Of Regents, New Mexico St. Univ.

FMCommander Single Allocation Study - 05-17-2016 - NGDC 30 SEC
KRUX.C's Overlaps (In= -0.81 km, Out= 5.39 km)

KRUX.C CH 218 A DA
Lat= 32 17 03.0, Lng= 106 45 00.0
3.0 kW -55.7 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



05-17-2016

Terrain Data: NGDC 30 SEC

FMOver Analysis

KRUX.C

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	-0210.3	011.3	315.1	001.1800	0106.3	076.4	36.14	
068.0	001.5769	-0213.1	011.3	315.1	001.1800	0106.2	076.2	36.19	
069.0	001.6075	-0216.7	011.4	315.1	001.1800	0106.2	076.0	36.25	
070.0	001.6384	-0221.4	011.4	315.0	001.1800	0106.1	075.8	36.30	
071.0	001.7237	-0226.8	011.6	315.1	001.1800	0106.2	075.5	36.38	
072.0	001.8112	-0231.4	011.7	315.1	001.1800	0106.2	075.3	36.45	
073.0	001.9008	-0234.2	011.9	315.1	001.1800	0106.3	075.0	36.52	
074.0	001.9927	-0237.8	012.0	315.1	001.1800	0106.3	074.8	36.60	
075.0	002.0917	-0241.8	012.1	315.1	001.1800	0106.4	074.6	36.67	
076.0	002.1879	-0246.1	012.3	315.1	001.1800	0106.4	074.3	36.75	
077.0	002.2864	-0248.5	012.4	315.1	001.1800	0106.4	074.1	36.82	
078.0	002.3870	-0249.0	012.5	315.1	001.1800	0106.4	073.8	36.89	
079.0	002.4898	-0249.7	012.6	315.1	001.1800	0106.3	073.5	36.96	
080.0	002.5947	-0250.7	012.8	315.1	001.1800	0106.3	073.3	37.03	
081.0	002.6339	-0251.9	012.8	315.0	001.1800	0106.1	073.1	37.08	
082.0	002.6734	-0252.0	012.9	314.9	001.1800	0105.9	072.9	37.13	
083.0	002.7132	-0250.6	012.9	314.9	001.1800	0105.7	072.7	37.18	
084.0	002.7533	-0247.0	013.0	314.8	001.1800	0105.5	072.5	37.23	
085.0	002.7937	-0243.5	013.0	314.7	001.1800	0105.3	072.3	37.28	
086.0	002.8344	-0239.8	013.0	314.6	001.1800	0105.1	072.1	37.33	
087.0	002.8753	-0236.1	013.1	314.5	001.1800	0104.9	071.9	37.38	
088.0	002.9166	-0227.8	013.1	314.4	001.1800	0104.7	071.7	37.43	
089.0	002.9581	-0219.3	013.2	314.3	001.1800	0104.6	071.5	37.48	
090.0	003.0000	-0210.5	013.2	314.2	001.1800	0104.4	071.3	37.53	
091.0	003.0000	-0206.7	013.2	314.1	001.1800	0104.2	071.1	37.56	
092.0	003.0000	-0205.3	013.2	313.9	001.1800	0104.0	071.0	37.60	
093.0	003.0000	-0203.5	013.2	313.8	001.1800	0103.9	070.8	37.63	
094.0	003.0000	-0199.8	013.2	313.6	001.1800	0103.8	070.7	37.67	
095.0	003.0000	-0193.0	013.2	313.5	001.1800	0103.8	070.5	37.72	
096.0	003.0000	-0186.4	013.2	313.3	001.1800	0103.9	070.4	37.77	
097.0	003.0000	-0179.8	013.2	313.2	001.1800	0104.1	070.2	37.82	
098.0	003.0000	-0177.9	013.2	313.0	001.1800	0104.4	070.1	37.87	
099.0	003.0000	-0177.3	013.2	312.9	001.1800	0104.7	070.0	37.93	
100.0	003.0000	-0176.3	013.2	312.7	001.1800	0105.0	069.9	37.98	
101.0	003.0000	-0172.9	013.2	312.6	001.1800	0105.3	069.7	38.04	
102.0	003.0000	-0165.5	013.2	312.4	001.1800	0105.7	069.6	38.09	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
103.0	003.0000	-0158.0	013.2	312.2	001.1800	0106.1	069.5	38.15
104.0	003.0000	-0151.2	013.2	312.1	001.1800	0106.7	069.4	38.21
105.0	003.0000	-0146.1	013.2	311.9	001.1800	0107.2	069.3	38.28
106.0	003.0000	-0141.9	013.2	311.7	001.1800	0107.9	069.2	38.34
107.0	003.0000	-0137.6	013.2	311.5	001.1800	0108.6	069.1	38.41
108.0	003.0000	-0134.2	013.2	311.4	001.1800	0109.3	069.0	38.48
109.0	003.0000	-0131.8	013.2	311.2	001.1800	0110.0	068.9	38.54
110.0	003.0000	-0129.0	013.2	311.0	001.1800	0110.7	068.8	38.61
111.0	003.0000	-0124.6	013.2	310.8	001.1800	0111.5	068.8	38.68
112.0	003.0000	-0117.1	013.2	310.7	001.1800	0112.3	068.7	38.74
113.0	003.0000	-0110.1	013.2	310.5	001.1800	0113.2	068.6	38.81
114.0	003.0000	-0104.6	013.2	310.3	001.1800	0114.0	068.5	38.87
115.0	003.0000	-0100.5	013.2	310.1	001.1800	0114.8	068.5	38.94
116.0	003.0000	-0095.7	013.2	309.9	001.1800	0115.5	068.4	38.99
117.0	003.0000	-0091.0	013.2	309.7	001.1800	0116.3	068.4	39.05
118.0	003.0000	-0086.6	013.2	309.5	001.1800	0117.1	068.3	39.11
119.0	003.0000	-0083.1	013.2	309.3	001.1800	0117.9	068.3	39.16
120.0	003.0000	-0080.1	013.2	309.2	001.1800	0118.6	068.2	39.22
121.0	003.0000	-0077.2	013.2	309.0	001.1800	0119.4	068.2	39.27
122.0	003.0000	-0074.8	013.2	308.8	001.1800	0120.1	068.2	39.31
123.0	003.0000	-0073.0	013.2	308.6	001.1800	0120.7	068.2	39.35
124.0	003.0000	-0071.1	013.2	308.4	001.1800	0121.4	068.1	39.39
125.0	003.0000	-0068.6	013.2	308.2	001.1800	0122.0	068.1	39.43
126.0	003.0000	-0065.3	013.2	308.0	001.1800	0122.6	068.1	39.47
127.0	003.0000	-0061.5	013.2	307.8	001.1800	0123.2	068.1	39.50
128.0	003.0000	-0057.5	013.2	307.6	001.1800	0123.7	068.1	39.52
129.0	003.0000	-0053.7	013.2	307.4	001.1800	0124.3	068.1	39.55
130.0	003.0000	-0050.5	013.2	307.2	001.1800	0124.8	068.1	39.57
131.0	003.0000	-0047.7	013.2	307.0	001.1800	0125.3	068.1	39.60
132.0	003.0000	-0045.1	013.2	306.8	001.1800	0125.7	068.2	39.61
133.0	003.0000	-0042.2	013.2	306.6	001.1800	0126.2	068.2	39.63
134.0	003.0000	-0038.9	013.2	306.4	001.1800	0126.6	068.2	39.64
135.0	003.0000	-0035.5	013.2	306.3	001.1800	0127.0	068.3	39.65
136.0	003.0000	-0032.3	013.2	306.1	001.1800	0127.4	068.3	39.66
137.0	003.0000	-0028.9	013.2	305.9	001.1800	0127.9	068.3	39.67
138.0	003.0000	-0024.7	013.2	305.7	001.1800	0128.3	068.4	39.68
139.0	003.0000	-0019.9	013.2	305.5	001.1800	0128.7	068.4	39.69
140.0	003.0000	-0015.1	013.2	305.3	001.1800	0129.2	068.5	39.69
141.0	003.0000	-0010.9	013.2	305.1	001.1800	0129.6	068.6	39.69
142.0	003.0000	-0007.1	013.2	304.9	001.1800	0129.9	068.6	39.69
143.0	003.0000	-0003.6	013.2	304.8	001.1800	0130.3	068.7	39.69
144.0	003.0000	-0000.2	013.2	304.6	001.1800	0130.7	068.8	39.69
145.0	003.0000	0003.2	013.2	304.4	001.1800	0131.2	068.9	39.68
146.0	003.0000	0006.7	013.2	304.2	001.1800	0131.6	068.9	39.68
147.0	003.0000	0010.5	013.2	304.0	001.1800	0132.1	069.0	39.68
148.0	003.0000	0014.6	013.2	303.9	001.1800	0132.5	069.1	39.67
149.0	003.0000	0018.9	013.2	303.7	001.1800	0132.9	069.2	39.66
150.0	003.0000	0023.1	013.2	303.5	001.1800	0133.4	069.3	39.65
151.0	003.0000	0026.8	013.2	303.3	001.1800	0133.8	069.4	39.64
152.0	003.0000	0030.0	013.2	303.2	001.1800	0134.3	069.5	39.63
153.0	003.0000	0033.1	013.8	302.8	001.1800	0135.3	069.2	39.80

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
154.0	003.0000	0035.7	014.3	302.4	001.1800	0136.3	068.9	39.95
155.0	003.0000	0037.7	014.7	302.0	001.1800	0137.3	068.7	40.06* 0.19
156.0	003.0000	0039.3	015.0	301.7	001.1800	0138.1	068.6	40.14* 0.44
157.0	003.0000	0040.5	015.2	301.4	001.1800	0138.9	068.5	40.19* 0.61
158.0	003.0000	0041.4	015.4	301.1	001.1800	0139.5	068.5	40.22* 0.70
159.0	003.0000	0042.2	015.6	300.9	001.1800	0140.1	068.6	40.24* 0.75
160.0	003.0000	0042.9	015.7	300.6	001.1800	0140.6	068.6	40.25* 0.79
161.0	003.0000	0043.6	015.9	300.4	001.1800	0141.1	068.7	40.26* 0.81
162.0	003.0000	0044.1	016.0	300.1	001.1800	0141.6	068.8	40.25* 0.78
163.0	003.0000	0044.4	016.0	299.9	001.1800	0142.0	068.9	40.23* 0.70
164.0	003.0000	0044.6	016.1	299.7	001.1800	0142.4	069.1	40.19* 0.60
165.0	003.0000	0044.7	016.1	299.6	001.1800	0142.8	069.3	40.15* 0.47
166.0	003.0000	0044.9	016.1	299.4	001.1800	0143.1	069.5	40.11* 0.35
167.0	003.0000	0045.1	016.2	299.2	001.1800	0143.4	069.6	40.08* 0.24
168.0	003.0000	0045.4	016.3	299.0	001.1800	0143.8	069.8	40.04* 0.11
169.0	003.0000	0045.5	016.3	298.8	001.1800	0144.0	070.0	39.99
170.0	003.0000	0045.5	016.3	298.7	001.1800	0144.3	070.2	39.93
171.0	003.0000	0045.3	016.2	298.6	001.1800	0144.4	070.5	39.85
172.0	003.0000	0045.1	016.2	298.5	001.1800	0144.6	070.7	39.78
173.0	003.0000	0044.9	016.2	298.4	001.1800	0144.7	071.0	39.71
174.0	003.0000	0044.7	016.1	298.3	001.1800	0144.9	071.2	39.64
175.0	003.0000	0044.2	016.0	298.2	001.1800	0145.0	071.5	39.55
176.0	003.0000	0043.7	015.9	298.2	001.1800	0145.0	071.8	39.46
177.0	003.0000	0043.0	015.8	298.1	001.1800	0145.1	072.1	39.36
178.0	003.0000	0041.8	015.5	298.2	001.1800	0145.0	072.5	39.24
179.0	003.0000	0040.5	015.2	298.3	001.1800	0144.9	072.9	39.12
180.0	003.0000	0039.2	015.0	298.4	001.1800	0144.7	073.2	39.00
181.0	003.0000	0036.5	014.4	298.7	001.1800	0144.3	073.7	38.83
182.0	003.0000	0033.8	013.9	298.9	001.1800	0143.9	074.2	38.67
183.0	003.0000	0031.1	013.4	299.2	001.1800	0143.5	074.6	38.51
184.0	003.0000	0029.3	013.2	299.2	001.1800	0143.3	074.9	38.41
185.0	003.0000	0026.8	013.2	299.2	001.1800	0143.5	075.1	38.36
186.0	003.0000	0024.0	013.2	299.1	001.1800	0143.6	075.3	38.29

05-17-2016

Terrain Data: NGDC 30 SEC

FMOver Analysis

1429619 BNPED20071022BGV

KRUX.C

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	0172.0	024.9	144.8	003.0000	0002.4	072.1	36.32	
249.0	001.1800	0172.3	025.0	144.7	003.0000	0002.1	071.6	36.39	
250.0	001.1800	0172.7	025.0	144.6	003.0000	0001.9	071.2	36.47	
251.0	001.1800	0173.0	025.0	144.5	003.0000	0001.6	070.8	36.55	
252.0	001.1800	0173.3	025.0	144.5	003.0000	0001.3	070.4	36.62	
253.0	001.1800	0173.6	025.0	144.4	003.0000	0001.0	069.9	36.70	
254.0	001.1800	0173.7	025.1	144.3	003.0000	0000.6	069.5	36.77	
255.0	001.1800	0173.7	025.1	144.1	003.0000	0000.2	069.1	36.85	
256.0	001.1800	0173.6	025.0	144.0	003.0000	-0000.3	068.7	36.92	
257.0	001.1800	0173.5	025.0	143.9	003.0000	-0000.7	068.3	36.99	
258.0	001.1800	0173.5	025.0	143.7	003.0000	-0001.2	067.9	37.07	
259.0	001.1800	0173.4	025.0	143.5	003.0000	-0001.8	067.5	37.14	
260.0	001.1800	0173.3	025.0	143.4	003.0000	-0002.3	067.1	37.21	
261.0	001.1800	0173.0	025.0	143.2	003.0000	-0002.9	066.7	37.28	
262.0	001.1800	0172.8	025.0	143.0	003.0000	-0003.6	066.3	37.35	
263.0	001.1800	0172.4	025.0	142.8	003.0000	-0004.3	066.0	37.42	
264.0	001.1800	0171.6	024.9	142.6	003.0000	-0005.1	065.6	37.48	
265.0	001.1800	0170.7	024.9	142.3	003.0000	-0005.9	065.3	37.54	
266.0	001.1800	0169.6	024.8	142.1	003.0000	-0006.8	065.0	37.60	
267.0	001.1800	0168.4	024.7	141.8	003.0000	-0007.8	064.7	37.66	
268.0	001.1800	0167.1	024.6	141.5	003.0000	-0008.9	064.3	37.72	
269.0	001.1800	0165.8	024.5	141.2	003.0000	-0010.0	064.1	37.78	
270.0	001.1800	0164.5	024.5	140.9	003.0000	-0011.1	063.8	37.83	
271.0	001.1800	0163.1	024.4	140.6	003.0000	-0012.4	063.5	37.88	
272.0	001.1800	0161.7	024.3	140.3	003.0000	-0013.7	063.2	37.93	
273.0	001.1800	0160.5	024.2	140.0	003.0000	-0015.1	063.0	37.98	
274.0	001.1800	0159.5	024.1	139.7	003.0000	-0016.6	062.7	38.03	
275.0	001.1800	0158.8	024.1	139.4	003.0000	-0018.0	062.5	38.08	
276.0	001.1800	0158.4	024.0	139.1	003.0000	-0019.4	062.2	38.14	
277.0	001.1800	0158.0	024.0	138.8	003.0000	-0020.9	061.9	38.19	
278.0	001.1800	0157.5	024.0	138.5	003.0000	-0022.4	061.7	38.24	
279.0	001.1800	0157.1	024.0	138.2	003.0000	-0024.0	061.4	38.29	
280.0	001.1800	0156.6	023.9	137.8	003.0000	-0025.4	061.2	38.34	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
281.0	001.1800	0156.3	023.9	137.5	003.0000	-0026.8	060.9	38.39
282.0	001.1800	0155.9	023.9	137.2	003.0000	-0028.1	060.7	38.43
283.0	001.1800	0155.5	023.8	136.9	003.0000	-0029.4	060.5	38.47
284.0	001.1800	0155.1	023.8	136.5	003.0000	-0030.6	060.3	38.52
285.0	001.1800	0154.7	023.8	136.2	003.0000	-0031.8	060.1	38.56
286.0	001.1800	0154.1	023.7	135.8	003.0000	-0033.0	059.9	38.59
287.0	001.1800	0153.5	023.7	135.4	003.0000	-0034.2	059.8	38.63
288.0	001.1800	0153.1	023.7	135.1	003.0000	-0035.3	059.6	38.66
289.0	001.1800	0152.8	023.7	134.7	003.0000	-0036.5	059.4	38.70
290.0	001.1800	0152.5	023.6	134.3	003.0000	-0037.8	059.3	38.73
291.0	001.1800	0152.1	023.6	134.0	003.0000	-0039.1	059.1	38.76
292.0	001.1800	0151.6	023.6	133.6	003.0000	-0040.3	059.0	38.79
293.0	001.1800	0151.1	023.5	133.2	003.0000	-0041.6	058.9	38.81
294.0	001.1800	0150.4	023.5	132.8	003.0000	-0042.8	058.8	38.83
295.0	001.1800	0149.4	023.4	132.4	003.0000	-0044.0	058.7	38.84
296.0	001.1800	0148.2	023.3	132.0	003.0000	-0045.1	058.7	38.85
297.0	001.1800	0146.8	023.2	131.6	003.0000	-0046.2	058.7	38.85
298.0	001.1800	0145.3	023.1	131.2	003.0000	-0047.2	058.7	38.85
299.0	001.1800	0143.8	023.0	130.8	003.0000	-0048.3	058.7	38.85
300.0	001.1800	0141.9	022.9	130.4	003.0000	-0049.4	058.8	38.84
301.0	001.1800	0139.8	022.7	130.0	003.0000	-0050.6	058.8	38.82
302.0	001.1800	0137.4	022.5	129.6	003.0000	-0051.9	058.9	38.79
303.0	001.1800	0134.7	022.3	129.2	003.0000	-0053.2	059.1	38.76
304.0	001.1800	0132.2	022.2	128.8	003.0000	-0054.6	059.2	38.73
305.0	001.1800	0129.8	022.0	128.4	003.0000	-0056.0	059.4	38.70
306.0	001.1800	0127.6	021.8	128.0	003.0000	-0057.5	059.5	38.67
307.0	001.1800	0125.3	021.6	127.6	003.0000	-0058.9	059.7	38.64
308.0	001.1800	0122.6	021.4	127.3	003.0000	-0060.4	059.9	38.60
309.0	001.1800	0119.2	021.2	126.9	003.0000	-0061.8	060.2	38.54
310.0	001.1800	0115.2	020.8	126.6	003.0000	-0063.1	060.5	38.47
311.0	001.1800	0110.8	020.5	126.3	003.0000	-0064.3	060.9	38.39
312.0	001.1800	0106.9	020.1	126.0	003.0000	-0065.4	061.3	38.31
313.0	001.1800	0104.4	019.9	125.7	003.0000	-0066.5	061.6	38.26
314.0	001.1800	0104.1	019.8	125.4	003.0000	-0067.6	061.7	38.24
315.0	001.1800	0106.0	020.0	125.0	003.0000	-0068.6	061.5	38.27
316.0	001.1800	0109.1	020.3	124.6	003.0000	-0069.6	061.3	38.31
317.0	001.1800	0111.7	020.5	124.3	003.0000	-0070.5	061.2	38.34
318.0	001.1800	0112.9	020.6	123.9	003.0000	-0071.3	061.1	38.35
319.0	001.1800	0112.4	020.6	123.6	003.0000	-0072.0	061.3	38.32
320.0	001.1800	0110.6	020.4	123.3	003.0000	-0072.5	061.5	38.27
321.0	001.1800	0108.1	020.2	123.1	003.0000	-0072.9	061.8	38.21
322.0	001.1800	0105.0	019.9	122.8	003.0000	-0073.3	062.2	38.13
323.0	001.1800	0101.9	019.6	122.6	003.0000	-0073.7	062.6	38.05
324.0	001.1800	0099.3	019.3	122.4	003.0000	-0074.0	063.0	37.98
325.0	001.1800	0097.7	019.2	122.2	003.0000	-0074.4	063.3	37.92
326.0	001.1800	0097.5	019.1	121.9	003.0000	-0074.9	063.4	37.89
327.0	001.1800	0098.2	019.2	121.6	003.0000	-0075.6	063.5	37.88
328.0	001.1800	0098.7	019.3	121.3	003.0000	-0076.3	063.6	37.86
329.0	001.1800	0098.0	019.2	121.1	003.0000	-0077.0	063.8	37.82
330.0	001.1800	0095.5	018.9	120.9	003.0000	-0077.4	064.2	37.74
331.0	001.1800	0091.3	018.5	120.9	003.0000	-0077.5	064.8	37.64

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
332.0	001.1800	0086.6	017.9	120.9	003.0000	-0077.5	065.4	37.52
333.0	001.1800	0082.3	017.4	120.9	003.0000	-0077.6	066.0	37.41
334.0	001.1800	0079.6	017.1	120.8	003.0000	-0077.8	066.4	37.33
335.0	001.1800	0078.9	017.0	120.6	003.0000	-0078.2	066.7	37.29
336.0	001.1800	0080.2	017.2	120.4	003.0000	-0079.0	066.7	37.28
337.0	001.1800	0082.9	017.5	120.0	003.0000	-0080.1	066.6	37.30
338.0	001.1800	0086.3	017.9	119.6	003.0000	-0081.4	066.5	37.32
339.0	001.1800	0090.1	018.3	119.1	003.0000	-0082.8	066.4	37.35
340.0	001.1800	0093.8	018.7	118.7	003.0000	-0084.2	066.3	37.37
341.0	001.1800	0096.8	019.1	118.3	003.0000	-0085.6	066.2	37.37
342.0	001.1800	0098.9	019.3	117.9	003.0000	-0086.9	066.3	37.36
343.0	001.1800	0100.2	019.4	117.6	003.0000	-0088.1	066.4	37.33
344.0	001.1800	0101.0	019.5	117.4	003.0000	-0089.2	066.6	37.30
345.0	001.1800	0101.1	019.5	117.2	003.0000	-0090.1	066.9	37.25
346.0	001.1800	0100.5	019.5	117.0	003.0000	-0090.8	067.2	37.20
347.0	001.1800	0097.8	019.2	117.0	003.0000	-0090.9	067.6	37.12
348.0	001.1800	0091.1	018.4	117.3	003.0000	-0089.5	068.3	36.99
349.0	001.1800	0083.3	017.5	117.7	003.0000	-0087.7	069.1	36.84
350.0	001.1800	0077.2	016.8	118.0	003.0000	-0086.5	069.8	36.72
351.0	001.1800	0077.9	016.9	117.8	003.0000	-0087.3	070.0	36.69
352.0	001.1800	0080.5	017.2	117.5	003.0000	-0088.8	070.0	36.68
353.0	001.1800	0083.2	017.5	117.1	003.0000	-0090.4	070.1	36.66
354.0	001.1800	0084.0	017.6	116.9	003.0000	-0091.3	070.3	36.63
355.0	001.1800	0083.9	017.6	116.8	003.0000	-0091.9	070.6	36.58
356.0	001.1800	0083.5	017.6	116.7	003.0000	-0092.4	070.9	36.53
357.0	001.1800	0082.2	017.4	116.7	003.0000	-0092.4	071.2	36.47
358.0	001.1800	0080.6	017.2	116.7	003.0000	-0092.4	071.6	36.40
359.0	001.1800	0079.2	017.1	116.7	003.0000	-0092.4	071.9	36.34
000.0	001.1800	0077.3	016.8	116.8	003.0000	-0092.1	072.3	36.28
001.0	001.1800	0074.8	016.5	116.9	003.0000	-0091.6	072.7	36.20
002.0	001.1800	0072.4	016.2	117.0	003.0000	-0091.0	073.1	36.13
003.0	001.1800	0069.5	015.9	117.1	003.0000	-0090.3	073.5	36.06
004.0	001.1800	0066.0	015.4	117.4	003.0000	-0089.3	073.9	35.98
005.0	001.1800	0062.5	015.0	117.6	003.0000	-0088.4	074.3	35.91
006.0	001.1800	0056.3	014.3	118.0	003.0000	-0086.7	074.8	35.82
007.0	001.1800	0047.9	013.2	118.7	003.0000	-0084.1	075.5	35.70