

INTERFERENCE ANALYSIS

Concerning
KCBX, Inc.
K215AG
Minor Change to
BLFT-19830509ME

Page #2 of this exhibit is a computer generated channel study, showing the contour relationship between the proposed translator and adjacent stations. Page #3 is an explanation of the methods used in preparing the study. There is contour overlap to second adjacent K213AR.

Section 73.1204(a) states that “an application for an FM translator station will not be accepted for filing if the proposed operation would involve overlap of predicted field strength contours with any other station, including commercial and noncommercial educational FM stations, FM translators and Class D (secondary) noncommercial educational FM stations.” However, Section 74.1204(d) states that “the provisions of this section concerning prohibited overlap will not apply where the area of such overlap lies entirely over water. In addition, *an application otherwise precluded by this section will be accepted if it can be demonstrated that no actual interference will occur due to intervening terrain, lack of population or other such factors as may be applicable.* (Emphasis added.)

The free space formula was used to determine the signal strength, in dBu, of K213AR at the proposed translator’s transmitter site. That signal strength of K213AR was calculated to be 107.9 dBu, based on an HAAT toward the reference of 721.6 meters, power of 0.008 kW and distance of 0.08 km. Incorporating the 40 dB U/D ratio, the resulting translator interference contour is 147.9 dBu. Page #4 is a distance to 147.9 dBu F(50-10) contour for the proposed translator. In the main lobe of this directional antenna, the 147.7 interference contour extends less than 5 meters. The antenna is located at a height above ground of 6.1 meters, therefore the interference area never reaches the ground.

Page #5 is a topographic map¹ depicting the proposed translator site. According to information provided by KCBX, Inc. and this topographic map, this is an isolated location, with no buildings (other than the transmitter building), residences or roads within the interference area. Due to the absence of “potential listeners” within the interference contour, the proposed translator complies with the Commission’s Rules regarding contour overlap.

Pages 3-18 are maps and FMOVE tables, depicting the proposed translator's relationship with KDSC, KMRO and KMRO.A. There is no prohibitive overlap in any of these situations.

¹ www.topozone.com

Kcbx, Inc
K215AG Minor Change

REFERENCE 34 31 31 N. 119 57 29 W.	CH# 215D - 90.9 MHz, Pwr= 0.01 kW, HAAT=911.4 M, COR= 1232 M Average Protected F(50-50)= 16.36 km Ave. F(50-10) 40 dBu= 60.9 54 dBu= 26.7 80 dBu= 2.2 100 dBu= .2	DISPLAY DATES DATA 02-23-06 SEARCH 02-23-06							
CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	COR(M) INT(km)	PRO(km) LICENSEE	*OUT* (Overlap in km)
215D Solvang, Etc.	K215AG	LIC CA	39.1 219.1	0.04 BLFT19830509ME	34 31 32 119 57 28	0.000 1141	1252 0.0	0.0 Kcbx, Inc	-28.09<
215B KGZO Shafter		LIC DC CA	12.8 192.9	85.99 BLED19980713KA	35 16 51 119 44 52	0.448 623	1294 102.8	38.0 The Association For Commun	19.06
213D K213AR Las Cruces, Etc.		LIC DV CA	292.1 112.1	0.08 BLFT20050701ABV	34 31 32 119 57 32	0.000 722	1217 0.0	0.0 Calvary Chapel of Twin Fal	-0.14<
213B KRVC.C Santa Maria		CP DCX CA	298.5 118.2	50.76 BMPED20051005ABF	34 44 30 120 26 45	1.305 116	409 1.8	21.4 People of Action	29.13
214B1 KRVC Santa Maria		LIC ZCX CA	298.2 117.9	50.53 BLED20030703ABY	34 44 20 120 26 41	0.305 94	378 19.6	13.1 People of Action	12.33
218B1 KRQZ Lompoc		LIC DVX CA	280.3 100.0	49.41 BLED20020808AAA	34 36 13 120 29 17	1.828 235	475 2.5	32.0 Trinity Church of The Naza	17.17
216B KDSC Thousand Oaks		LIC CN CA	99.8 280.2	72.01 BMLED20030717ABP	34 24 47 119 11 10	4.800 614	879 89.5	60.5 University Of Southern Cal	3.92
212B KMRO Camarillo		LIC C CA	99.8 280.2	72.01 BLED20030919ABW	34 24 47 119 11 10	7.100 603	868 5.2	64.1 The Association For Commun	7.81
212B KMRO.A Camarillo		APP CX CA	99.8 280.2	73.10 BPED20060208AMD	34 24 40 119 10 28	10.700 515	784 5.9	63.9 The Association For Commun	9.15
218D K218CP Santa Barbara		LIC DV CA	104.3 284.5	26.62 BMLFT20050620ACH	34 27 57 119 40 38	0.006 180	660 0.2	6.8 Calvary Chapel of Twin Fal	19.75
212D KMROF2 Santa Barbara		LIC DC CA	104.4 284.6	26.66 BLFTB20050216ACS	34 27 55 119 40 37	0.042 227	698 0.5	12.5 The Association For Commun	14.09
216D K216CO Lompoc		LIC DVN CA	297.8 117.5	49.20 BLFT19941114TD	34 43 50 120 26 01	0.010 21	292 4.4	3.2 Calvary Chapel of Twin Fal	20.98
215D K215AH Avila Beach		LIC DHN CA	316.2 135.8	100.63 BLFT19830509MF	35 10 35 120 43 27	0.008 63	71 13.7	4.4 Kcbx, Inc	41.14
216D K216FQ Santa Maria		LIC DV CA	311.6 131.4	51.82 BLFT20030818AAR	34 50 02 120 22 57	0.000 171	419 0.0	0.0 Calvary Chapel of Twin Fal	27.49
06ZT NEW Bakersfield		AP D N CA	50.0 230.7	138.48 BNPTVL20000831BG	35 19 12 118 47 22	0.000 164	312 0.9	0.0 134.0R Marcia T. Turner Tr/as Tur	4.5M
06+2C KSBY San Louis Obispo		LI N CA	325.8 145.4	112.40 BMLCT19860228KG	35 21 37 120 39 18	100.000 484	885 2.6	119.0 134.0R Ksby Communications, Inc.	-21.6M

ERP and HAAT are on direct line to and from reference station.

Incoming contour overlap is ignored.

• affixed to TV6 Margin= no direct-line contour overlap.

**affixed to 'IN' or 'Out' values = site inside protected contour. "<" = contour overlap

HOW TO READ THE FM COMPUTER PRINT-OUT

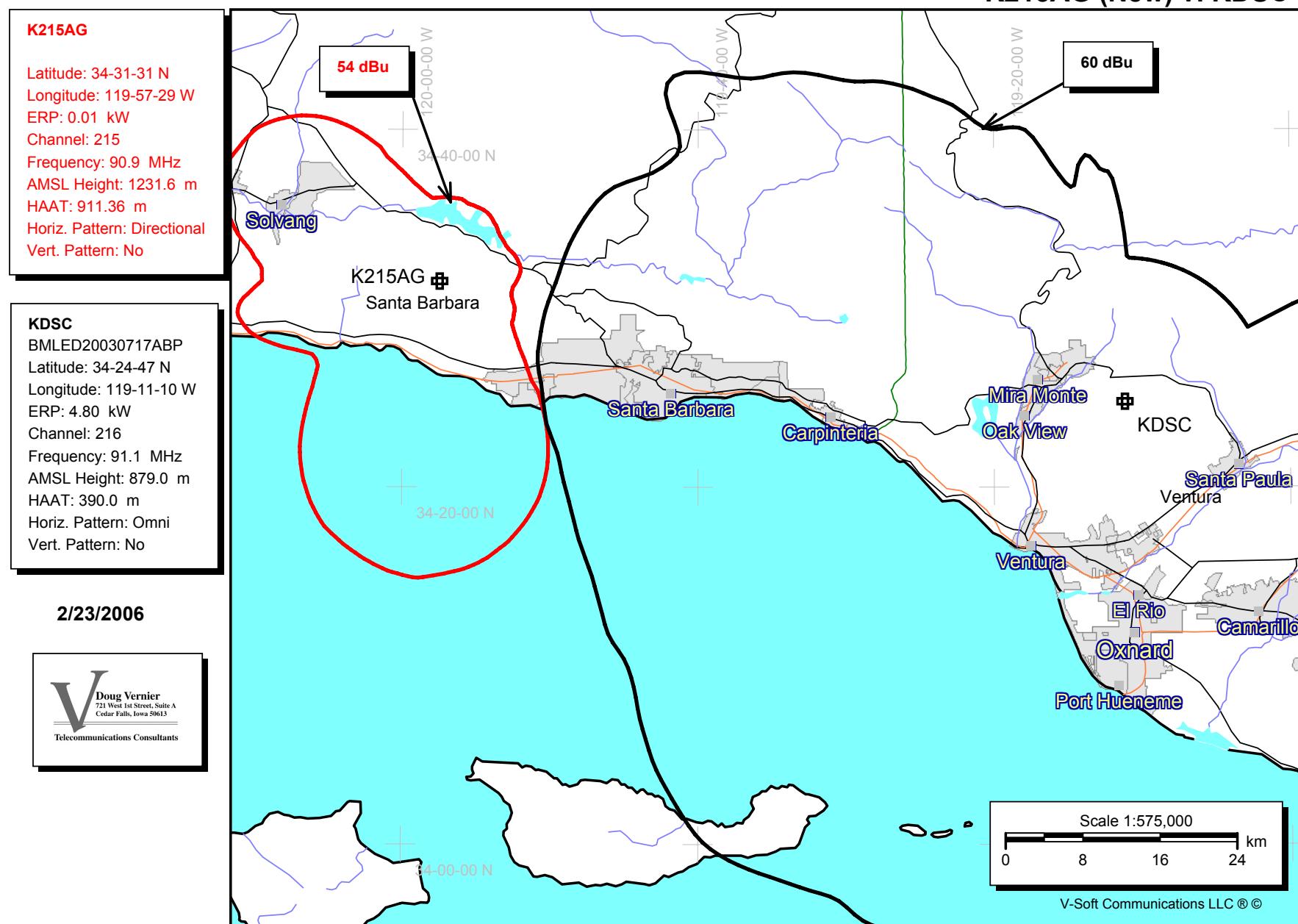
The computer printout should be self-explanatory for the most part. The parameters of the station being checked, (reference station) are printed in the heading. The 60 dBu protected contour is predicted from the Commission's F(50-50) table, while the 40, 54, 80 and 100 dBu contours are interference contours derived from the Commission's F(50-10) table. Contour distances are in kilometers and are predicted using spline interpolation from data points identical to those published in Report No. RS 76-01 by Gary C. Kalagian. Critical contour distances are determined using the Commission's TVFMINT FORTRAN subroutine. When interference contour distances are less than 16 kilometers the F(50-50) tables are used. If signal contour distances are less than 1.6 km the free-space equation is used.

The column labeled "** OUT **" shows the distance in kilometers of overlap or clearance between the reference station's interference contour and the database station's protected contour. (All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90.) Therefore, the column is a measure of outgoing interference. Negative distance figures in this column indicate outgoing overlap interference. Listed antenna heights are the average heights of eight standard radials as found in the Commission's records unless otherwise noted, in which case the specific antenna heights and the DA power, if applicable, along the straight line azimuths between the reference station and the database station are used and visa versa.

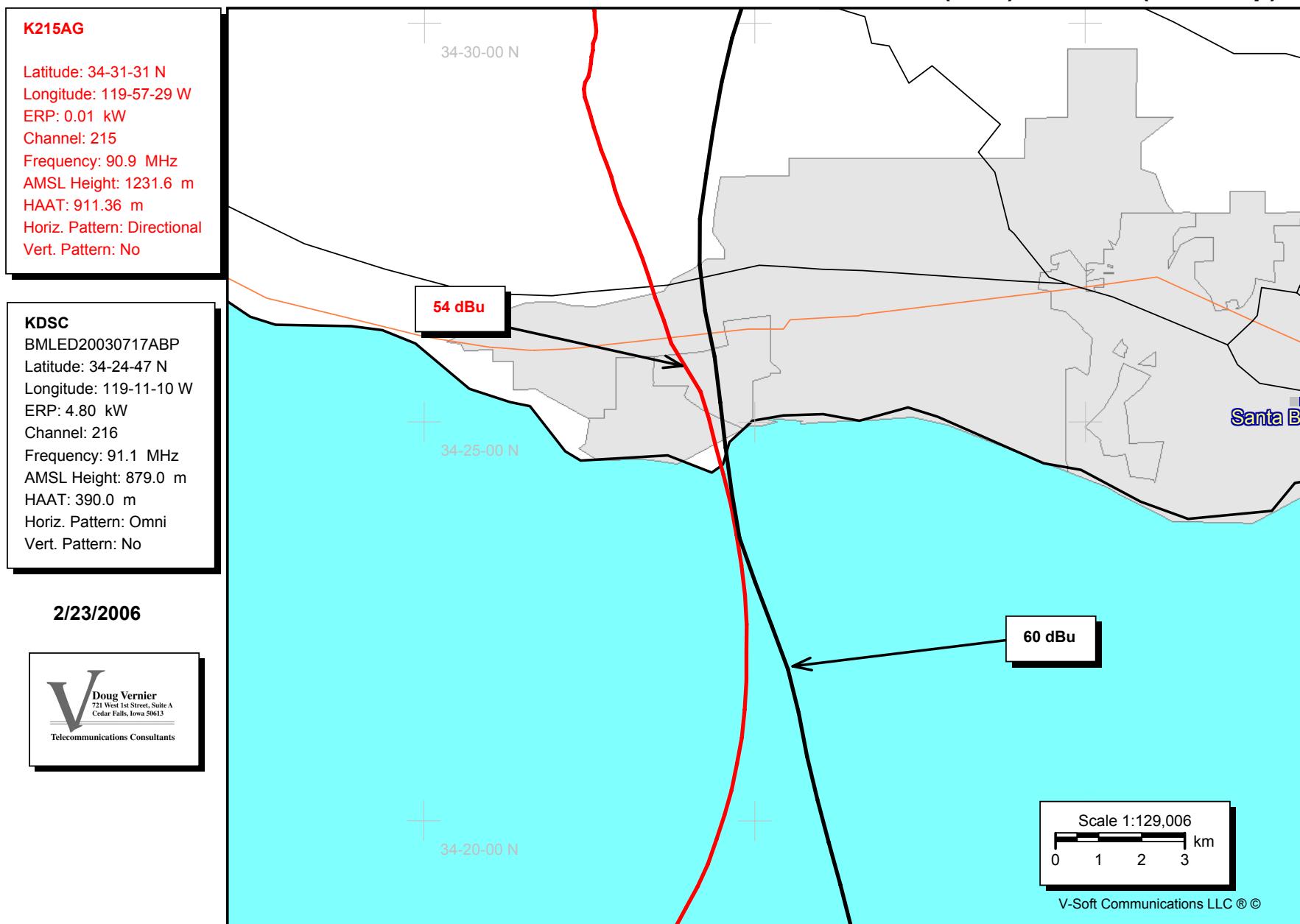
Under the "AZIMUTH" column, the first row of numbers indicate the bearings from True North of the data base stations in relationship with the reference station, while the numbers in the second row indicate the reverse bearings from the database station to the reference station.

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

The first three letters of the "TYPE" column identify the current FCC status of the stations. The fourth letter will be a "D" or "Z" (Sec. 73.215) if the facility is directional. 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.

K215AG (New) v. KDSC

K215AG (New) v. KDSC (Close-Up)



02-23-2006 30 Sec. Terrain Data

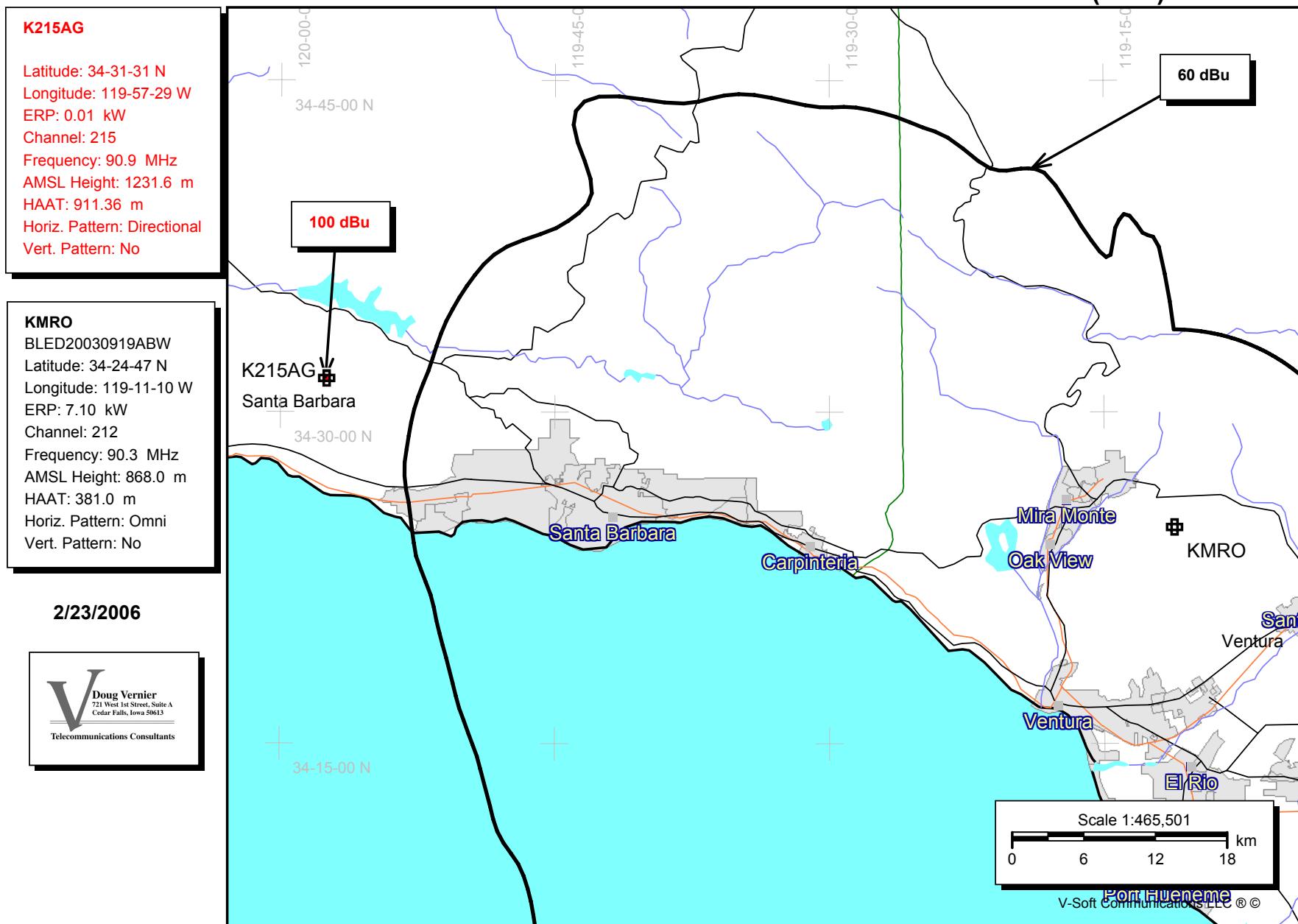
KDSC BMLED20030717ABP
 Channel = 216B
 Max ERP = 4.8 kW
 RCAMSL = 879 M
 N. Lat = 34 24 47
 W. Lng = 119 11 10
 Protected
 60 dBu

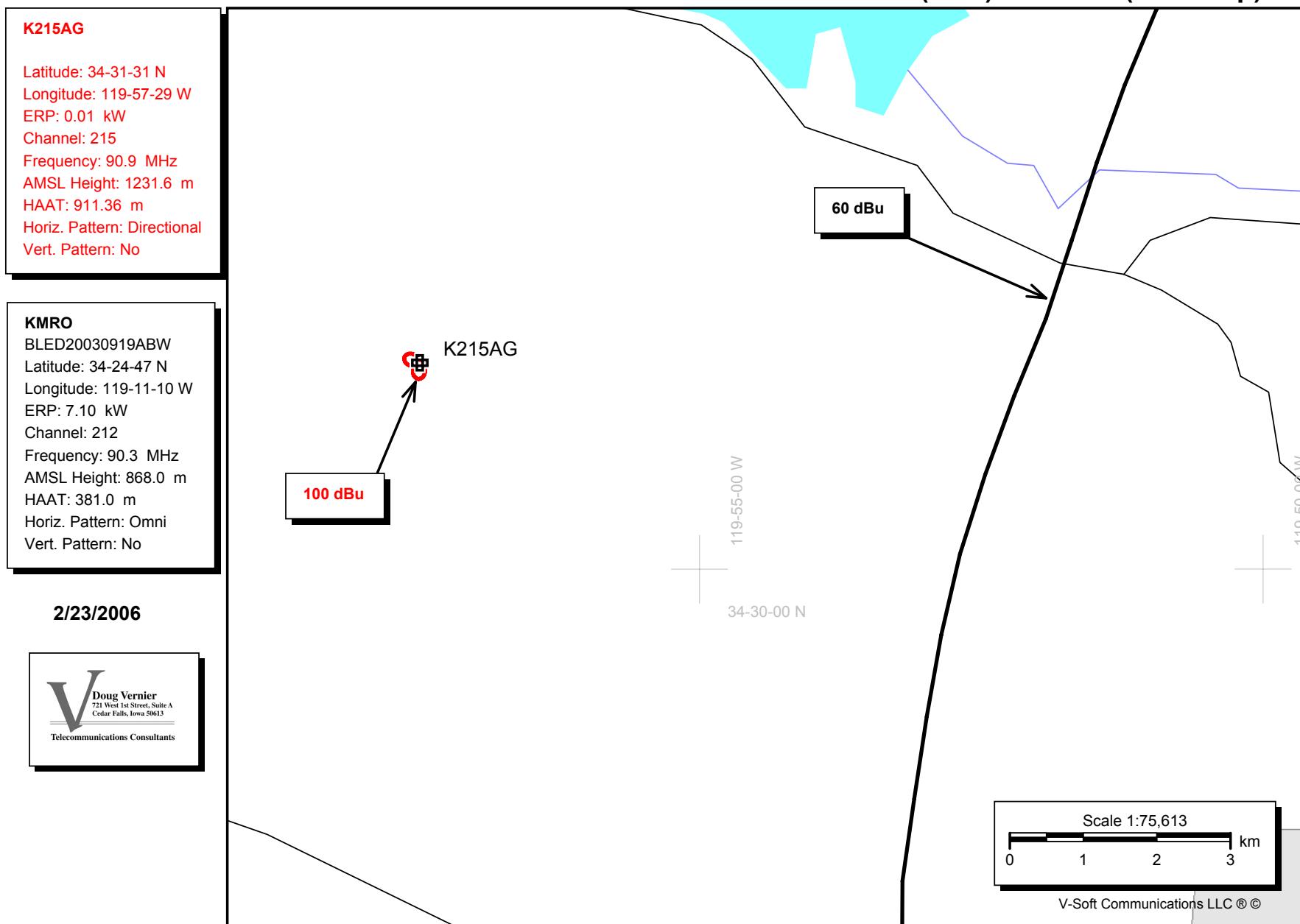
K215AG
 Channel = 215D
 Max ERP = 0.01 kW
 RCAMSL = 1232 M
 N. Lat = 34 31 31
 W. Lng = 119 57 29
 Interfering
 54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
220.0	004.8000	0668.9	062.5	152.9	000.0046	1127.6	067.7	36.29
221.0	004.8000	0677.1	062.8	153.4	000.0047	1127.6	066.9	36.68
222.0	004.8000	0683.9	063.0	154.0	000.0049	1129.2	066.0	37.11
223.0	004.8000	0688.5	063.2	154.5	000.0050	1129.2	065.0	37.53
224.0	004.8000	0690.2	063.2	154.9	000.0051	1130.2	064.0	37.95
225.0	004.8000	0688.4	063.2	155.2	000.0052	1130.2	062.9	38.36
226.0	004.8000	0683.7	063.0	155.4	000.0052	1130.2	061.8	38.76
227.0	004.8000	0677.9	062.8	155.5	000.0053	1130.7	060.7	39.16
228.0	004.8000	0671.8	062.6	155.7	000.0053	1130.7	059.6	39.56
229.0	004.8000	0665.7	062.4	155.8	000.0053	1130.7	058.5	39.96
230.0	004.8000	0659.9	062.2	155.9	000.0053	1130.7	057.4	40.36
231.0	004.8000	0654.1	062.0	156.0	000.0054	1130.7	056.3	40.76
232.0	004.8000	0647.6	061.7	156.1	000.0054	1130.7	055.2	41.15
233.0	004.8000	0639.2	061.4	156.0	000.0054	1130.7	054.1	41.54
234.0	004.8000	0629.4	061.1	155.9	000.0053	1130.7	053.0	41.92
235.0	004.8000	0619.2	060.7	155.8	000.0053	1130.7	051.9	42.28
236.0	004.8000	0609.7	060.4	155.6	000.0053	1130.7	050.8	42.65
237.0	004.8000	0600.1	060.0	155.4	000.0052	1130.2	049.7	43.00
238.0	004.8000	0589.6	059.6	155.1	000.0051	1130.2	048.6	43.34
239.0	004.8000	0579.3	059.2	154.7	000.0051	1130.2	047.5	43.67
240.0	004.8000	0570.8	058.8	154.4	000.0050	1129.2	046.4	43.99
241.0	004.8000	0564.9	058.6	154.2	000.0049	1129.2	045.4	44.34
242.0	004.8000	0560.9	058.4	154.0	000.0049	1129.2	044.4	44.70
243.0	004.8000	0559.7	058.3	153.9	000.0049	1129.2	043.3	45.10
244.0	004.8000	0562.3	058.4	154.1	000.0049	1129.2	042.3	45.56
245.0	004.8000	0565.9	058.6	154.4	000.0050	1129.2	041.3	46.03
246.0	004.8000	0567.3	058.7	154.4	000.0050	1129.2	040.3	46.48
247.0	004.8000	0565.2	058.6	154.2	000.0049	1129.2	039.3	46.87
248.0	004.8000	0561.9	058.4	153.9	000.0049	1129.2	038.2	47.24
249.0	004.8000	0559.6	058.3	153.6	000.0048	1129.2	037.2	47.62
250.0	004.8000	0557.5	058.2	153.3	000.0047	1127.6	036.2	47.99
251.0	004.8000	0555.9	058.1	153.0	000.0046	1127.6	035.2	48.37
252.0	004.8000	0554.6	058.1	152.6	000.0046	1127.6	034.2	48.74
253.0	004.8000	0555.5	058.1	152.4	000.0045	1125.1	033.2	49.14
254.0	004.8000	0556.6	058.2	152.2	000.0044	1125.1	032.2	49.55

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
255.0	004.8000	0558.0	058.2	151.9	000.0044	1125.1	031.2	49.96
256.0	004.8000	0559.9	058.3	151.6	000.0043	1125.1	030.2	50.38
257.0	004.8000	0560.5	058.4	151.2	000.0042	1121.9	029.2	50.73
258.0	004.8000	0560.8	058.4	150.6	000.0041	1121.9	028.2	51.09
259.0	004.8000	0561.8	058.4	150.1	000.0040	1118.2	027.2	51.43
260.0	004.8000	0563.0	058.5	149.4	000.0038	1114.3	026.3	51.75
261.0	004.8000	0565.2	058.6	148.8	000.0037	1114.3	025.3	52.10
262.0	004.8000	0567.5	058.7	148.1	000.0035	1110.2	024.3	52.40
263.0	004.8000	0569.7	058.8	147.3	000.0033	1106.0	023.3	52.66
264.0	004.8000	0571.4	058.9	146.4	000.0031	1101.9	022.4	52.88
265.0	004.8000	0574.6	059.0	145.4	000.0029	1097.5	021.4	53.11
266.0	004.8000	0581.4	059.3	144.6	000.0028	1097.5	020.4	53.46
267.0	004.8000	0589.2	059.6	143.8	000.0026	1092.8	019.3	53.76
268.0	004.8000	0597.2	059.9	142.8	000.0024	1087.4	018.3	54.00
269.0	004.8000	0600.9	060.1	141.2	000.0021	1075.7	017.3	53.92
270.0	004.8000	0604.4	060.2	139.3	000.0018	1065.2	016.4	53.74
271.0	004.8000	0607.8	060.3	137.1	000.0015	1056.7	015.6	53.45
272.0	004.8000	0611.9	060.5	134.7	000.0012	1049.2	014.7	52.53
273.0	004.8000	0619.1	060.7	132.1	000.0010	1035.5	013.8	52.29
274.0	004.8000	0624.3	060.9	129.0	000.0008	1015.2	013.1	51.80
275.0	004.8000	0626.2	061.0	125.2	000.0006	0971.4	012.4	51.28
276.0	004.8000	0624.6	060.9	120.6	000.0005	0928.1	012.0	50.69
277.0	004.8000	0623.3	060.9	115.7	000.0005	0844.2	011.6	50.68
278.0	004.8000	0621.7	060.8	110.5	000.0005	0714.1	011.4	50.53
279.0	004.8000	0619.1	060.7	105.2	000.0005	0549.7	011.3	49.36
280.0	004.8000	0614.7	060.6	099.8	000.0005	0486.8	011.4	48.65
281.0	004.8000	0609.5	060.4	094.6	000.0005	0515.2	011.7	48.42
282.0	004.8000	0603.9	060.2	089.7	000.0005	0603.5	012.0	48.99
283.0	004.8000	0600.9	060.1	085.0	000.0005	0740.5	012.4	49.56
284.0	004.8000	0598.7	060.0	080.7	000.0005	0809.3	012.9	49.48
285.0	004.8000	0596.0	059.9	076.8	000.0005	0837.0	013.4	48.96
286.0	004.8000	0592.5	059.7	073.3	000.0005	0855.4	014.0	48.34
287.0	004.8000	0587.3	059.5	070.3	000.0005	0848.1	014.8	47.61
288.0	004.8000	0581.7	059.3	067.8	000.0005	0844.4	015.6	47.34
289.0	004.8000	0575.5	059.0	065.6	000.0004	0837.8	016.5	46.49
290.0	004.8000	0568.9	058.7	063.8	000.0004	0831.3	017.4	45.73
291.0	004.8000	0561.6	058.4	062.4	000.0004	0825.4	018.4	44.95
292.0	004.8000	0552.4	057.9	061.4	000.0004	0825.5	019.5	44.19
293.0	004.8000	0539.7	057.3	061.1	000.0004	0825.5	020.7	43.36
294.0	004.8000	0523.1	056.3	061.5	000.0004	0825.4	022.0	42.43
295.0	004.8000	0505.6	055.2	062.1	000.0004	0825.4	023.5	41.52
296.0	004.8000	0489.8	054.3	062.5	000.0004	0827.9	024.8	40.73
297.0	004.8000	0478.9	053.7	062.4	000.0004	0825.4	025.9	40.01
298.0	004.8000	0470.5	053.2	062.1	000.0004	0825.4	026.9	39.38
299.0	004.8000	0465.6	052.9	061.5	000.0004	0825.4	027.9	38.85
300.0	004.8000	0467.9	053.0	060.3	000.0004	0828.3	028.6	38.47
301.0	004.8000	0480.0	053.7	058.2	000.0004	0835.0	029.1	38.27
302.0	004.8000	0499.4	054.9	055.4	000.0004	0837.5	029.4	38.10
303.0	004.8000	0521.2	056.2	052.4	000.0004	0847.5	029.8	38.00
304.0	004.8000	0538.6	057.2	049.9	000.0004	0859.0	030.5	37.85
305.0	004.8000	0546.7	057.7	048.6	000.0004	0863.1	031.3	37.57

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
306.0	004.8000	0544.5	057.5	048.4	000.0004	0864.6	032.3	37.12
307.0	004.8000	0532.5	056.8	049.2	000.0004	0863.1	033.4	36.52
308.0	004.8000	0511.2	055.6	050.9	000.0004	0853.7	034.7	35.80
309.0	004.8000	0483.6	053.9	053.1	000.0004	0841.9	036.0	35.01
310.0	004.8000	0455.5	052.4	055.1	000.0004	0837.5	037.3	34.39
311.0	004.8000	0432.9	051.1	056.6	000.0004	0836.5	038.5	33.86
312.0	004.8000	0417.8	050.3	057.4	000.0004	0836.5	039.6	33.40
313.0	004.8000	0406.5	049.7	057.9	000.0004	0835.0	040.6	32.96
314.0	004.8000	0394.9	049.1	058.4	000.0004	0835.0	041.6	32.54
315.0	004.8000	0381.1	048.3	059.1	000.0004	0832.2	042.6	32.10
316.0	004.8000	0364.8	047.4	060.0	000.0004	0828.3	043.6	31.65
317.0	004.8000	0346.3	046.3	061.1	000.0004	0825.5	044.7	31.20
318.0	004.8000	0327.3	045.2	062.2	000.0004	0825.4	045.7	30.80
319.0	004.8000	0309.9	044.2	063.2	000.0004	0827.9	046.7	30.49
320.0	004.8000	0295.6	043.3	064.0	000.0004	0831.3	047.7	30.21
321.0	004.8000	0285.4	042.7	064.5	000.0004	0831.3	048.6	29.89
322.0	004.8000	0276.4	042.2	064.9	000.0004	0834.5	049.4	29.62
323.0	004.8000	0266.0	041.5	065.4	000.0004	0834.5	050.3	29.34
324.0	004.8000	0253.5	040.7	066.1	000.0004	0837.8	051.1	29.12
325.0	004.8000	0240.6	039.9	066.8	000.0004	0840.7	052.0	28.89
326.0	004.8000	0227.7	039.1	067.6	000.0005	0844.4	052.9	28.69
327.0	004.8000	0214.2	038.1	068.5	000.0005	0844.4	053.7	28.43
328.0	004.8000	0201.8	037.2	069.3	000.0005	0846.4	054.6	28.21
329.0	004.8000	0191.8	036.3	070.0	000.0005	0848.1	055.3	28.02
330.0	004.8000	0181.3	035.5	070.8	000.0005	0850.4	056.1	27.77
331.0	004.8000	0168.0	034.2	071.9	000.0005	0853.1	057.0	27.57
332.0	004.8000	0154.8	032.8	073.2	000.0005	0855.4	057.8	27.31
333.0	004.8000	0146.0	031.8	074.0	000.0005	0853.0	058.6	27.09
334.0	004.8000	0141.7	031.4	074.3	000.0005	0853.0	059.2	26.88
335.0	004.8000	0139.2	031.1	074.5	000.0005	0853.0	059.8	26.69
336.0	004.8000	0137.8	031.0	074.5	000.0005	0847.9	060.3	26.44
337.0	004.8000	0136.4	030.8	074.6	000.0005	0847.9	060.9	26.26
338.0	004.8000	0134.5	030.6	074.7	000.0005	0847.9	061.4	26.07
339.0	004.8000	0131.9	030.4	074.9	000.0005	0847.9	062.0	25.90
340.0	004.8000	0127.5	029.9	075.3	000.0005	0847.9	062.6	25.72

K215AG (New) v. KMRO

K215AG (New) v. KMRO (Close-Up)

02-23-2006 30 Sec. Terrain Data

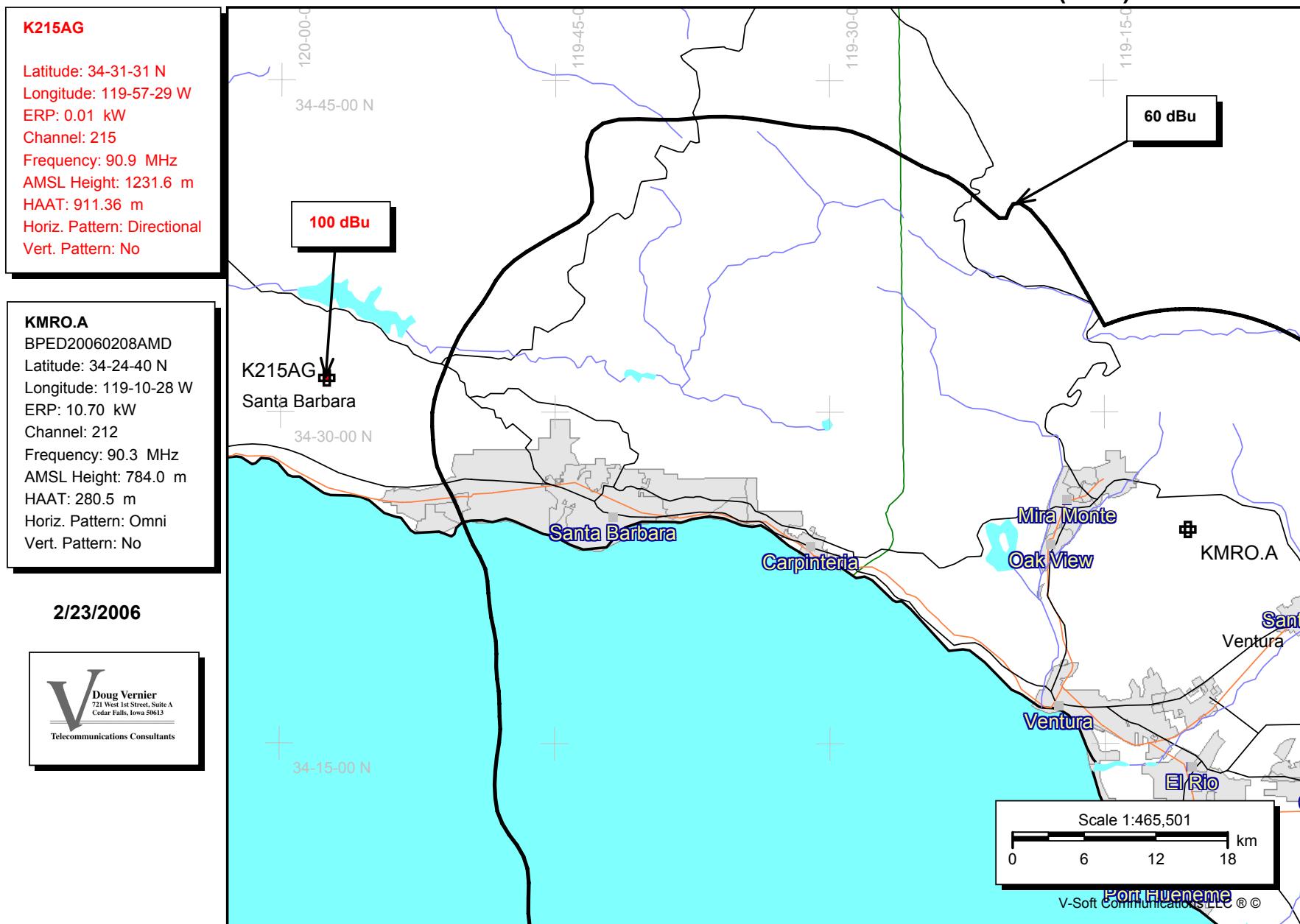
KMRO BLED20030919ABW
 Channel = 212B
 Max ERP = 7.1 kW
 RCAMSL = 868 M
 N. Lat = 34 24 47
 W. Lng = 119 11 10
 Protected
 60 dBu

K215AG
 Channel = 215D
 Max ERP = 0.01 kW
 RCAMSL = 1232 M
 N. Lat = 34 31 31
 W. Lng = 119 57 29
 Interfering
 100 dBu

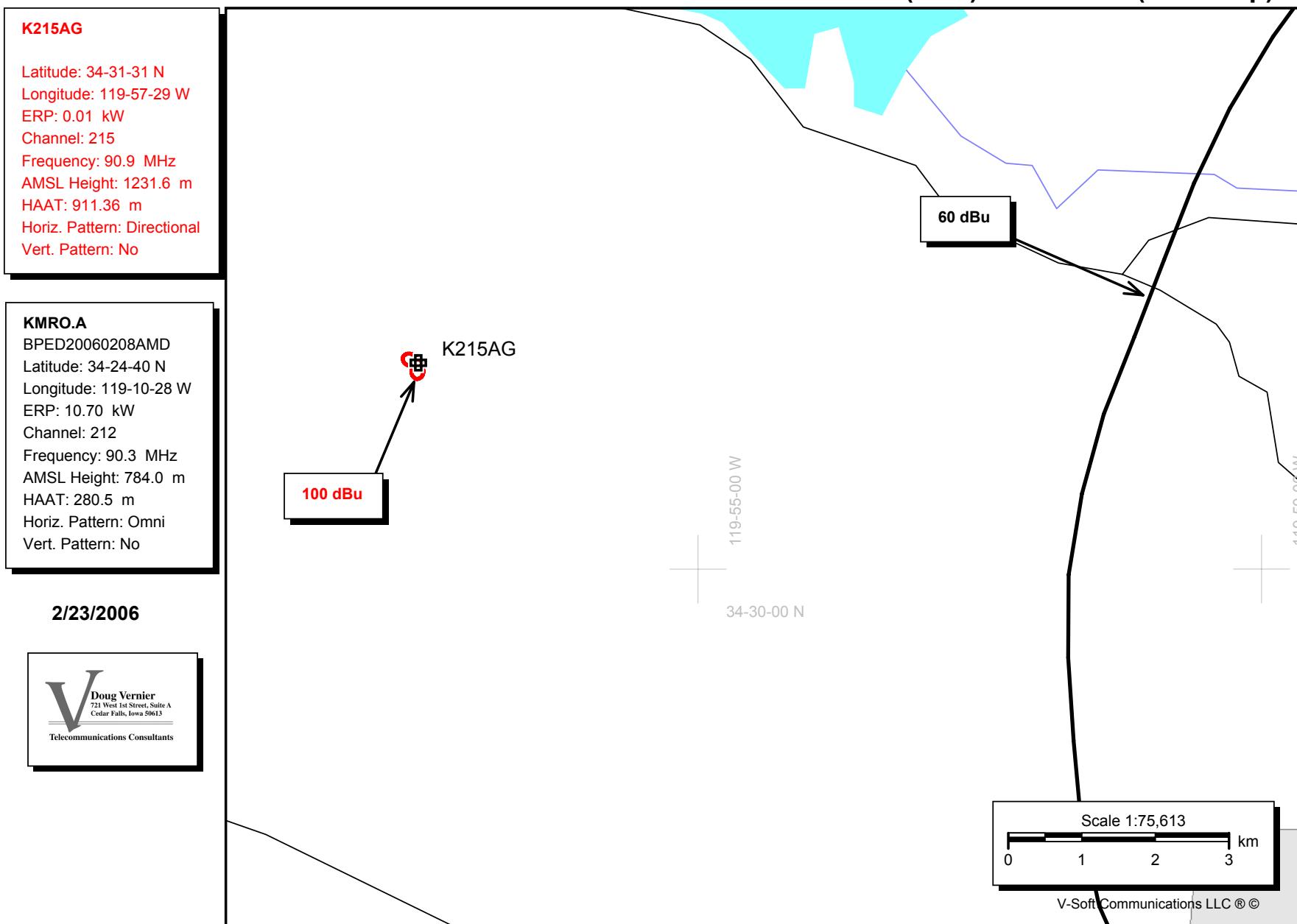
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
220.0	007.1000	0657.9	066.2	155.8	000.0053	1130.7	069.3	36.41
221.0	007.1000	0666.1	066.5	156.3	000.0054	1130.7	068.4	36.80
222.0	007.1000	0672.9	066.7	156.9	000.0056	1131.2	067.4	37.21
223.0	007.1000	0677.5	066.9	157.5	000.0057	1131.2	066.5	37.64
224.0	007.1000	0679.2	067.0	157.9	000.0058	1131.5	065.4	38.06
225.0	007.1000	0677.4	066.9	158.3	000.0059	1131.5	064.3	38.48
226.0	007.1000	0672.7	066.7	158.6	000.0060	1132.0	063.2	38.91
227.0	007.1000	0666.9	066.5	158.8	000.0060	1132.0	062.0	39.32
228.0	007.1000	0660.8	066.3	159.0	000.0061	1132.0	060.9	39.75
229.0	007.1000	0654.7	066.1	159.2	000.0061	1132.0	059.7	40.17
230.0	007.1000	0648.9	065.9	159.4	000.0061	1132.0	058.5	40.60
231.0	007.1000	0643.1	065.6	159.6	000.0062	1132.5	057.4	41.03
232.0	007.1000	0636.6	065.4	159.7	000.0062	1132.5	056.2	41.45
233.0	007.1000	0628.2	065.1	159.7	000.0062	1132.5	055.0	41.87
234.0	007.1000	0618.4	064.7	159.7	000.0062	1132.5	053.8	42.29
235.0	007.1000	0608.2	064.4	159.6	000.0062	1132.5	052.7	42.70
236.0	007.1000	0598.7	064.0	159.6	000.0062	1132.5	051.5	43.11
237.0	007.1000	0589.1	063.6	159.4	000.0062	1132.0	050.3	43.50
238.0	007.1000	0578.6	063.2	159.2	000.0061	1132.0	049.1	43.89
239.0	007.1000	0568.3	062.7	158.9	000.0060	1132.0	048.0	44.27
240.0	007.1000	0559.8	062.3	158.6	000.0060	1132.0	046.8	44.65
241.0	007.1000	0553.9	062.0	158.4	000.0059	1131.5	045.7	45.04
242.0	007.1000	0549.9	061.8	158.4	000.0059	1131.5	044.6	45.46
243.0	007.1000	0548.7	061.7	158.4	000.0059	1131.5	043.5	45.90
244.0	007.1000	0551.3	061.9	158.7	000.0060	1132.0	042.5	46.39
245.0	007.1000	0554.9	062.0	159.1	000.0061	1132.0	041.4	46.89
246.0	007.1000	0556.3	062.1	159.3	000.0061	1132.0	040.3	47.38
247.0	007.1000	0554.2	062.0	159.2	000.0061	1132.0	039.2	47.84
248.0	007.1000	0550.9	061.8	159.0	000.0061	1132.0	038.1	48.27
249.0	007.1000	0548.6	061.7	158.9	000.0060	1132.0	037.1	48.72
250.0	007.1000	0546.5	061.6	158.7	000.0060	1132.0	036.0	49.16
251.0	007.1000	0544.9	061.5	158.5	000.0059	1131.5	034.9	49.61
252.0	007.1000	0543.6	061.4	158.3	000.0059	1131.5	033.9	50.06
253.0	007.1000	0544.5	061.5	158.2	000.0059	1131.5	032.8	50.55
254.0	007.1000	0545.6	061.5	158.1	000.0059	1131.5	031.7	51.04

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
255.0	007.1000	0547.0	061.6	158.1	000.0058	1131.5	030.6	51.54
256.0	007.1000	0548.9	061.7	158.0	000.0058	1131.5	029.5	52.06
257.0	007.1000	0549.5	061.8	157.8	000.0058	1131.5	028.5	52.54
258.0	007.1000	0549.8	061.8	157.4	000.0057	1131.2	027.4	53.01
259.0	007.1000	0550.8	061.8	157.1	000.0056	1131.2	026.3	53.49
260.0	007.1000	0552.0	061.9	156.7	000.0055	1131.2	025.3	53.98
261.0	007.1000	0554.2	062.0	156.4	000.0054	1130.7	024.2	54.48
262.0	007.1000	0556.5	062.1	156.0	000.0053	1130.7	023.1	54.98
263.0	007.1000	0558.7	062.2	155.5	000.0052	1130.2	022.0	55.45
264.0	007.1000	0560.4	062.3	154.8	000.0051	1130.2	021.0	55.89
265.0	007.1000	0563.6	062.5	154.1	000.0049	1129.2	019.9	56.34
266.0	007.1000	0570.4	062.8	153.8	000.0048	1129.2	018.8	56.91
267.0	007.1000	0578.2	063.1	153.5	000.0048	1129.2	017.6	57.49
268.0	007.1000	0586.2	063.5	153.0	000.0046	1127.6	016.5	58.04
269.0	007.1000	0589.9	063.6	151.8	000.0044	1125.1	015.4	58.38
270.0	007.1000	0593.4	063.8	150.2	000.0040	1118.2	014.4	58.20
271.0	007.1000	0596.8	063.9	148.3	000.0036	1110.2	013.3	58.43
272.0	007.1000	0600.9	064.1	146.1	000.0031	1101.9	012.3	58.59
273.0	007.1000	0608.1	064.3	143.9	000.0026	1092.8	011.3	58.77
274.0	007.1000	0613.3	064.5	140.7	000.0020	1075.7	010.3	58.53
275.0	007.1000	0615.2	064.6	136.3	000.0014	1052.9	009.4	57.76
276.0	007.1000	0613.6	064.6	130.5	000.0009	1029.8	008.8	56.33
277.0	007.1000	0612.3	064.5	123.8	000.0006	0958.9	008.3	55.17
278.0	007.1000	0610.7	064.4	116.3	000.0005	0844.2	007.9	54.79
279.0	007.1000	0608.1	064.3	108.1	000.0005	0635.3	007.7	54.58
280.0	007.1000	0603.7	064.2	099.7	000.0005	0486.8	007.8	53.66
281.0	007.1000	0598.5	064.0	091.7	000.0005	0560.3	008.1	53.61
282.0	007.1000	0592.9	063.8	084.5	000.0005	0740.5	008.5	53.71
283.0	007.1000	0589.9	063.6	078.0	000.0005	0832.4	009.1	53.29
284.0	007.1000	0587.7	063.5	072.3	000.0005	0853.1	009.7	52.40
285.0	007.1000	0585.0	063.4	067.4	000.0004	0840.7	010.4	51.31
286.0	007.1000	0581.5	063.3	063.4	000.0004	0827.9	011.2	50.21
287.0	007.1000	0576.3	063.1	060.3	000.0004	0828.3	012.1	49.27
288.0	007.1000	0570.7	062.8	057.8	000.0004	0835.0	013.1	48.43
289.0	007.1000	0564.5	062.5	055.9	000.0004	0837.1	014.1	47.58
290.0	007.1000	0557.9	062.2	054.4	000.0004	0838.7	015.2	47.28
291.0	007.1000	0550.6	061.8	053.4	000.0004	0841.9	016.3	46.50
292.0	007.1000	0541.4	061.3	052.9	000.0004	0841.9	017.5	45.67
293.0	007.1000	0528.7	060.5	053.3	000.0004	0841.9	018.8	44.75
294.0	007.1000	0512.1	059.5	054.3	000.0004	0838.7	020.2	43.75
295.0	007.1000	0494.6	058.4	055.5	000.0004	0837.5	021.7	42.77
296.0	007.1000	0478.8	057.4	056.3	000.0004	0837.1	023.0	41.88
297.0	007.1000	0467.9	056.8	056.4	000.0004	0837.1	024.2	41.13
298.0	007.1000	0459.5	056.3	056.3	000.0004	0837.1	025.3	40.45
299.0	007.1000	0454.6	056.0	055.8	000.0004	0837.1	026.3	39.85
300.0	007.1000	0456.9	056.2	054.6	000.0004	0837.5	027.1	39.37
301.0	007.1000	0469.0	056.9	052.5	000.0004	0847.5	027.8	39.13
302.0	007.1000	0488.4	058.0	049.5	000.0004	0859.0	028.3	39.02
303.0	007.1000	0510.2	059.4	046.4	000.0005	0861.5	028.9	38.95
304.0	007.1000	0527.6	060.5	043.9	000.0005	0856.7	029.7	38.63
305.0	007.1000	0535.7	061.0	042.6	000.0005	0855.7	030.7	38.19

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
306.0	007.1000	0533.5	060.8	042.6	000.0005	0855.7	031.8	37.66
307.0	007.1000	0521.5	060.1	043.7	000.0005	0856.7	032.9	37.09
308.0	007.1000	0500.2	058.8	045.7	000.0005	0861.5	034.1	36.47
309.0	007.1000	0472.6	057.1	048.2	000.0004	0864.6	035.3	35.75
310.0	007.1000	0444.5	055.5	050.4	000.0004	0859.0	036.6	34.99
311.0	007.1000	0421.9	054.2	052.0	000.0004	0847.5	037.8	34.32
312.0	007.1000	0406.8	053.4	053.0	000.0004	0841.9	038.9	33.76
313.0	007.1000	0395.5	052.8	053.6	000.0004	0838.7	039.9	33.29
314.0	007.1000	0383.9	052.1	054.2	000.0004	0838.7	040.9	32.86
315.0	007.1000	0370.1	051.4	055.1	000.0004	0837.5	041.9	32.43
316.0	007.1000	0353.8	050.4	056.1	000.0004	0837.1	043.0	32.00
317.0	007.1000	0335.3	049.2	057.4	000.0004	0836.5	044.0	31.57
318.0	007.1000	0316.3	048.0	058.8	000.0004	0832.2	045.1	31.10
319.0	007.1000	0298.9	046.9	060.0	000.0004	0828.3	046.1	30.67
320.0	007.1000	0284.6	046.0	060.9	000.0004	0825.5	047.1	30.28
321.0	007.1000	0274.4	045.3	061.5	000.0004	0825.5	048.0	29.94
322.0	007.1000	0265.4	044.7	062.0	000.0004	0825.4	048.9	29.62
323.0	007.1000	0255.0	044.0	062.6	000.0004	0827.9	049.8	29.36
324.0	007.1000	0242.5	043.2	063.4	000.0004	0827.9	050.7	29.07
325.0	007.1000	0229.6	042.4	064.2	000.0004	0831.3	051.5	28.81
326.0	007.1000	0216.7	041.5	065.0	000.0004	0834.5	052.4	28.53
327.0	007.1000	0203.2	040.5	066.0	000.0004	0837.8	053.3	28.33
328.0	007.1000	0190.8	039.5	066.9	000.0004	0840.7	054.1	28.13
329.0	007.1000	0180.8	038.7	067.6	000.0005	0844.4	054.9	27.94
330.0	007.1000	0170.3	037.7	068.5	000.0005	0846.4	055.7	27.72
331.0	007.1000	0157.0	036.2	069.9	000.0005	0848.1	056.6	27.55
332.0	007.1000	0143.8	034.7	071.3	000.0005	0850.4	057.5	27.31
333.0	007.1000	0135.0	033.7	072.2	000.0005	0853.1	058.2	27.13
334.0	007.1000	0130.7	033.2	072.6	000.0005	0855.4	058.9	26.93
335.0	007.1000	0128.2	032.9	072.7	000.0005	0855.4	059.5	26.71
336.0	007.1000	0126.8	032.8	072.8	000.0005	0855.4	060.1	26.51
337.0	007.1000	0125.4	032.6	072.9	000.0005	0855.4	060.7	26.31
338.0	007.1000	0123.5	032.4	073.1	000.0005	0855.4	061.3	26.12
339.0	007.1000	0120.9	032.1	073.3	000.0005	0855.4	061.8	25.94
340.0	007.1000	0116.5	031.6	073.7	000.0005	0853.0	062.4	25.76

K215AG (New) v. KMRO.A

K215AG (New) v. KMRO.A (Close-Up)



02-23-2006 30 Sec. Terrain Data

KMRO.A BPED20060208AMD
 Channel = 212B
 Max ERP = 10.7 kW
 RCAMSL = 784 M
 N. Lat = 34 24 40
 W. Lng = 119 10 28
 Protected
 60 dBu

K215AG
 Channel = 215D
 Max ERP = 0.01 kW
 RCAMSL = 1232 M
 N. Lat = 34 31 31
 W. Lng = 119 57 29
 Interfering
 100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
220.0	010.7000	0516.0	063.9	153.3	000.0047	1127.6	069.0	35.97
221.0	010.7000	0523.3	064.4	154.0	000.0049	1129.2	068.2	36.38
222.0	010.7000	0531.6	065.0	154.8	000.0051	1130.2	067.4	36.83
223.0	010.7000	0540.7	065.5	155.6	000.0053	1130.7	066.5	37.27
224.0	010.7000	0549.7	066.1	156.4	000.0055	1130.7	065.7	37.70
225.0	010.7000	0557.8	066.5	157.2	000.0056	1131.2	064.8	38.13
226.0	010.7000	0564.5	066.8	157.8	000.0058	1131.5	063.8	38.57
227.0	010.7000	0569.5	067.1	158.4	000.0059	1131.5	062.8	39.00
228.0	010.7000	0572.1	067.2	158.9	000.0060	1132.0	061.8	39.43
229.0	010.7000	0571.7	067.2	159.3	000.0061	1132.0	060.7	39.86
230.0	010.7000	0569.4	067.1	159.6	000.0062	1132.5	059.5	40.30
231.0	010.7000	0566.1	066.9	159.8	000.0063	1132.5	058.4	40.74
232.0	010.7000	0562.3	066.7	160.0	000.0063	1132.5	057.2	41.17
233.0	010.7000	0558.0	066.5	160.2	000.0063	1132.5	056.0	41.60
234.0	010.7000	0552.8	066.2	160.2	000.0064	1132.5	054.8	42.03
235.0	010.7000	0546.7	065.9	160.2	000.0064	1132.5	053.6	42.45
236.0	010.7000	0540.0	065.5	160.1	000.0063	1132.5	052.4	42.87
237.0	010.7000	0533.3	065.1	160.0	000.0063	1132.5	051.2	43.28
238.0	010.7000	0527.5	064.7	159.9	000.0063	1132.5	050.0	43.69
239.0	010.7000	0521.6	064.3	159.7	000.0062	1132.5	048.8	44.09
240.0	010.7000	0514.0	063.8	159.3	000.0061	1132.0	047.7	44.46
241.0	010.7000	0504.3	063.2	158.8	000.0060	1132.0	046.5	44.81
242.0	010.7000	0494.6	062.5	158.1	000.0059	1131.5	045.3	45.15
243.0	010.7000	0487.8	062.1	157.7	000.0057	1131.5	044.2	45.52
244.0	010.7000	0485.2	061.9	157.6	000.0057	1131.5	043.1	45.94
245.0	010.7000	0486.4	062.0	157.8	000.0058	1131.5	042.0	46.42
246.0	010.7000	0490.1	062.2	158.2	000.0059	1131.5	040.9	46.93
247.0	010.7000	0492.3	062.4	158.4	000.0059	1131.5	039.8	47.44
248.0	010.7000	0492.0	062.4	158.4	000.0059	1131.5	038.7	47.91
249.0	010.7000	0488.3	062.1	158.1	000.0058	1131.5	037.7	48.32
250.0	010.7000	0482.9	061.8	157.5	000.0057	1131.2	036.6	48.68
251.0	010.7000	0475.9	061.3	156.7	000.0055	1131.2	035.5	49.01
252.0	010.7000	0467.9	060.8	155.7	000.0053	1130.7	034.5	49.29
253.0	010.7000	0459.1	060.3	154.6	000.0050	1130.2	033.5	49.51
254.0	010.7000	0452.1	059.9	153.6	000.0048	1129.2	032.6	49.73

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
255.0	010.7000	0448.1	059.6	152.8	000.0046	1127.6	031.6	50.01
256.0	010.7000	0443.8	059.4	152.0	000.0044	1125.1	030.6	50.25
257.0	010.7000	0440.4	059.2	151.1	000.0042	1121.9	029.7	50.48
258.0	010.7000	0438.8	059.1	150.3	000.0040	1118.2	028.7	50.75
259.0	010.7000	0436.4	059.0	149.4	000.0038	1114.3	027.8	50.96
260.0	010.7000	0432.7	058.7	148.3	000.0036	1110.2	026.9	51.06
261.0	010.7000	0430.3	058.6	147.1	000.0033	1106.0	026.0	51.16
262.0	010.7000	0430.7	058.6	146.2	000.0031	1101.9	025.1	51.37
263.0	010.7000	0432.2	058.7	145.3	000.0029	1097.5	024.1	51.59
264.0	010.7000	0432.4	058.7	144.2	000.0027	1092.8	023.2	51.68
265.0	010.7000	0432.3	058.7	142.8	000.0024	1087.4	022.3	51.67
266.0	010.7000	0432.2	058.7	141.4	000.0021	1075.7	021.5	51.56
267.0	010.7000	0434.2	058.8	140.0	000.0019	1070.2	020.6	51.53
268.0	010.7000	0441.3	059.2	139.1	000.0018	1065.2	019.5	51.83
269.0	010.7000	0450.8	059.8	138.4	000.0017	1060.8	018.4	52.25
270.0	010.7000	0458.3	060.2	137.2	000.0015	1056.7	017.3	52.44
271.0	010.7000	0465.6	060.7	135.8	000.0013	1052.9	016.2	52.55
272.0	010.7000	0472.9	061.1	134.1	000.0012	1045.1	015.2	52.58
273.0	010.7000	0481.7	061.7	132.4	000.0010	1035.5	014.0	52.22
274.0	010.7000	0492.7	062.4	130.6	000.0009	1029.8	012.8	52.53
275.0	010.7000	0501.6	063.0	128.0	000.0007	1006.1	011.7	52.70
276.0	010.7000	0506.8	063.3	124.0	000.0006	0958.9	010.8	52.45
277.0	010.7000	0510.1	063.6	119.0	000.0005	0905.8	010.2	52.28
278.0	010.7000	0513.3	063.8	113.3	000.0005	0762.5	009.6	52.55
279.0	010.7000	0515.6	063.9	106.8	000.0005	0606.4	009.2	52.42
280.0	010.7000	0515.5	063.9	099.9	000.0005	0486.8	009.1	51.75
281.0	010.7000	0514.0	063.8	093.0	000.0005	0539.5	009.3	51.70
282.0	010.7000	0510.9	063.6	086.7	000.0005	0686.9	009.7	52.10
283.0	010.7000	0508.2	063.4	080.9	000.0005	0809.3	010.3	51.97
284.0	010.7000	0505.8	063.3	075.8	000.0005	0841.2	010.9	51.25
285.0	010.7000	0502.5	063.0	071.6	000.0005	0853.1	011.6	50.37
286.0	010.7000	0497.7	062.7	068.2	000.0005	0844.4	012.5	49.32
287.0	010.7000	0491.7	062.3	065.6	000.0004	0837.8	013.5	48.23
288.0	010.7000	0485.9	062.0	063.4	000.0004	0827.9	014.5	47.29
289.0	010.7000	0481.8	061.7	061.2	000.0004	0825.5	015.5	47.01
290.0	010.7000	0478.5	061.5	059.2	000.0004	0832.2	016.4	46.37
291.0	010.7000	0473.3	061.2	057.9	000.0004	0835.0	017.5	45.64
292.0	010.7000	0464.9	060.6	057.2	000.0004	0836.5	018.6	44.84
293.0	010.7000	0453.6	060.0	057.1	000.0004	0836.5	019.9	43.97
294.0	010.7000	0440.9	059.2	057.2	000.0004	0836.5	021.2	43.11
295.0	010.7000	0428.3	058.5	057.3	000.0004	0836.5	022.4	42.28
296.0	010.7000	0415.2	057.8	057.5	000.0004	0836.5	023.7	41.48
297.0	010.7000	0403.3	057.1	057.6	000.0004	0835.0	024.9	40.71
298.0	010.7000	0396.5	056.7	057.2	000.0004	0836.5	025.9	40.09
299.0	010.7000	0398.7	056.8	055.9	000.0004	0837.1	026.7	39.61
300.0	010.7000	0409.1	057.4	053.9	000.0004	0838.7	027.4	39.25
301.0	010.7000	0424.7	058.3	051.4	000.0004	0853.7	028.0	39.12
302.0	010.7000	0439.5	059.1	049.1	000.0004	0863.1	028.6	38.91
303.0	010.7000	0449.2	059.7	047.5	000.0004	0863.7	029.5	38.60
304.0	010.7000	0452.4	059.9	046.7	000.0005	0863.7	030.5	38.16
305.0	010.7000	0446.4	059.5	046.9	000.0005	0863.7	031.5	37.61

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
306.0	010.7000	0430.7	058.6	048.1	000.0004	0864.6	032.7	36.96
307.0	010.7000	0407.6	057.3	049.8	000.0004	0859.0	034.0	36.17
308.0	010.7000	0382.6	055.9	051.7	000.0004	0847.5	035.3	35.43
309.0	010.7000	0361.7	054.7	053.2	000.0004	0841.9	036.5	34.77
310.0	010.7000	0346.3	053.7	054.3	000.0004	0838.7	037.7	34.23
311.0	010.7000	0332.2	052.8	055.3	000.0004	0837.5	038.8	33.73
312.0	010.7000	0316.5	051.8	056.4	000.0004	0837.1	040.0	33.24
313.0	010.7000	0299.7	050.7	057.6	000.0004	0835.0	041.1	32.74
314.0	010.7000	0282.3	049.5	058.8	000.0004	0832.2	042.3	32.23
315.0	010.7000	0265.0	048.3	060.1	000.0004	0828.3	043.4	31.73
316.0	010.7000	0248.5	047.1	061.3	000.0004	0825.5	044.5	31.26
317.0	010.7000	0234.1	046.1	062.2	000.0004	0825.4	045.6	30.86
318.0	010.7000	0222.9	045.3	062.9	000.0004	0827.9	046.5	30.55
319.0	010.7000	0212.6	044.6	063.6	000.0004	0831.3	047.5	30.26
320.0	010.7000	0199.4	043.6	064.5	000.0004	0831.3	048.5	29.91
321.0	010.7000	0183.4	042.3	065.7	000.0004	0837.8	049.6	29.66
322.0	010.7000	0167.0	040.8	067.2	000.0004	0840.7	050.7	29.41
323.0	010.7000	0152.4	039.1	068.8	000.0005	0846.4	051.8	29.16
324.0	010.7000	0140.4	037.6	070.1	000.0005	0848.1	052.8	28.93
325.0	010.7000	0131.4	036.6	071.0	000.0005	0850.4	053.8	28.62
326.0	010.7000	0123.9	035.7	071.7	000.0005	0853.1	054.6	28.40
327.0	010.7000	0113.0	034.3	072.9	000.0005	0855.4	055.6	28.10
328.0	010.7000	0098.7	032.2	074.8	000.0005	0847.9	056.8	27.71
329.0	010.7000	0088.5	030.4	076.3	000.0005	0841.2	057.8	27.32
330.0	010.7000	0086.7	030.1	076.5	000.0005	0841.2	058.4	27.12
331.0	010.7000	0089.3	030.6	075.9	000.0005	0841.2	058.8	26.96
332.0	010.7000	0091.1	030.9	075.5	000.0005	0847.9	059.2	26.86
333.0	010.7000	0090.0	030.7	075.5	000.0005	0841.2	059.8	26.60
334.0	010.7000	0084.4	029.8	076.3	000.0005	0841.2	060.5	26.38
335.0	010.7000	0073.5	027.9	077.9	000.0005	0832.4	061.4	26.07
336.0	010.7000	0058.5	025.3	080.1	000.0005	0819.3	062.5	25.65
337.0	010.7000	0041.6	021.5	083.4	000.0005	0786.5	063.9	24.79
338.0	010.7000	0023.5	018.4	085.9	000.0005	0714.2	065.2	23.48
339.0	010.7000	0008.9	018.4	085.8	000.0005	0714.2	065.5	23.38
340.0	010.7000	0001.1	018.4	085.7	000.0005	0714.2	065.8	23.28